



**FEMA**

JAN 19 2017

Kriss Kennedy  
Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region IV Office  
1600 East Lamar Boulevard  
Arlington, Texas 76011-4511

Dear Mr. Kennedy:

I am forwarding a copy of the Final After Action Report for the Plume Phase exercise (PPX) held in the counties of San Luis Obispo and Santa Barbara on November 2, 2016, for the Diablo Canyon Power Plant (DCPP). The purpose of this exercise was to assess the level of state and local preparedness in responding to a radiological emergency. The final exercise report was prepared in coordination with the DCPP Off-site Response Organizations (ORO).

No Level 1 or Level 2 Findings, or Planning Issues, were identified during this exercise.

Based on the evaluation of the November 2, 2016, PPX, the Off-site radiological emergency response plans for the state of California and the affected local jurisdictions site-specific to DCPP can be implemented. The demonstrated capabilities of California OROs are adequate to provide continued reasonable assurance that appropriate measures can be taken to protect the health and safety of the public in the event of a radiological emergency at DCPP.

Therefore, the Code of Federal Regulations, Title 44 § 350 approval of the Off-site radiological emergency response plans and preparedness for the state of California, site-specific to DCPP, will remain in effect.

If you have any questions or need additional information, please contact me at (510) 627-7100. Your staff may also contact Alberto Sifuentes, DCPP Site-Specialist, at (510) 627-7108, or Johanna Johnson, Senior Site Specialist, at (510) 627-7164.

Sincerely,

A handwritten signature in black ink, appearing to read "R. J. Fenton", is written over the typed name.

Robert J. Fenton  
Regional Administrator  
FEMA Region IX

IX49  
NRR

Mr. Kriss Kennedy  
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Enclosure

cc:  
U.S. Nuclear Regulatory Commission, Document Control Desk  
One White Flint North, 11555 Rockville Pike  
Rockville, MD 20852

Vanessa Quinn, Chief  
Radiological Emergency Preparedness Branch  
FEMA Headquarters



# Diablo Canyon Power Plant After Action Report/ Improvement Plan

Exercise Dates: October 12 - 13, and November  
2 - 3, 2016.

Radiological Emergency Preparedness Program



**FEMA**

Published January 27, 2017

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## Diablo Canyon Power Plant

# After Action Report/Improvement Plan

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## EXECUTIVE SUMMARY

The U.S. Department of Homeland Security's (DHS) Federal Emergency Management Agency (FEMA) Region IX National Preparedness Division, Technological Hazards Branch, evaluated an Off-site Plume Phase exercise (PPX) on November 2, 2016, in the Emergency Planning Zone (EPZ) around the Diablo Canyon Power Plant (DCPP). Out-of-Sequence (OoS) Interviews were conducted on October 12-13, and November 3, 2016. The findings in this report contain the final FEMA evaluation results, from the DCPP PPX and OoS Interviews, with final determinations made by the FEMA Region IX Acting Regional Assistance Committee (RAC) Chair and approved by the FEMA Region IX Regional Administrator.

The purpose of the PPX is part of the Radiological Emergency Preparedness (REP) Program to assess the level of State and local Off-site Response Organizations (ORO) preparedness in response to a radiological incident at DCPP. The PPX was held in accordance with FEMA's policies and guidance concerning the implementation of State and local ORO Radiological Emergency Response Plans (RERP) and procedures.

The previous biennial exercise at DCPP was conducted on May 21, 2014, and the qualifying emergency preparedness exercise was conducted on August 19, 1981.

The scenario and the Extent-of-Play (EOP) agreement was reviewed, and approved, by FEMA Region IX Acting RAC Chair prior to the scheduled date of the PPX. There were no Area Requiring Corrective Action (ARCA) or Planning Issues from previous PPXs that required correction. There were no Level 1 or 2 Findings, or Planning Issues identified during the PPX.

In Summary: The State and local ORO demonstrated that their plans and procedures can be adequately implemented, and that there is a continued reasonable assurance that measures can be taken to protect the health and safety of the public in the event of a radiological incident at DCPP.

## **SECTION 1: EXERCISE OVERVIEW**

### **1.1 Exercise Details**

**Exercise Name**

Diablo Canyon Power Plant

**Type of Exercise**

Plume Phase exercise

**Exercise Dates**

October 12 - 13, and November 2 - 3, 2016

**Program**

U.S. Department of Homeland Security/FEMA REP Program

**Scenario Type**

Radiological Emergency

### **1.2 Exercise Planning Team Leadership**

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### 1.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the Diablo Canyon Power Plant exercise:

#### State Jurisdictions

- California Department of Parks and Recreation
- California Department of Public Health
- California Department of Transportation
- California Governor's Office of Emergency Services
- California Highway Patrol
- California Men's Colony

#### Local Jurisdictions and Organizations

- Air Pollution Control District
- Bellevue - Santa Fe Charter School
- City of Pismo Beach
- Port San Luis Harbor District
- San Luis Costal Unified School District
- San Luis Obispo County
- San Luis Obispo County Fire
- San Luis Obispo County Office of Education
- Santa Barbara County

#### Federal Jurisdictions

- Federal Emergency Management Agency
- National Weather Service
- United States Coast Guard
- United States Nuclear Regulatory Commission

#### Private Organizations

- American Red Cross
- KVEC - 920 AM Radio Station
- Pacific Gas and Electric - Diablo Canyon Power Plant
- Radio Amateur Civil Emergency Service
- Regional Transit Authority

## **SECTION 2: EXERCISE DESIGN SUMMARY**

### **2.1 Exercise Purpose and Design**

The Federal Emergency Management Agency administers the REP Program pursuant to the regulations found in Title 44 Code of Federal Regulations (C.F.R.) § 350, 351 and 352 (October 2011) and the FEMA REP Program Manual, (January 2016). Title Emergency Management and Assistance, 44 C.F.R. § 350 (October 2011) codifies 16 Planning Standards that form the basis for radiological emergency response planning for licensees, State, local, and tribal governments impacted by the EPZs established for each nuclear power plant (NPP) site in the United States of America. One of the REP Program cornerstones established by these regulations is the biennial exercise of Off-site response capabilities. During a biennial exercises, State and local governments demonstrate their abilities to implement their plans and procedures to protect the health and safety of the public in the event of a radiological incident at the nuclear plant.

The results of this exercise, together with the review of the RERPs and procedures, the verification of the periodic requirements (set forth in NUREG-0654/FEMA-REP-1) enable FEMA to provide a statement with transmission of this final After Action Report to the U.S. Nuclear Regulatory Commission, that State and local plans and preparedness are:

- Adequate to protect the health and safety of the public living in the vicinity of the nuclear power facility; and
- That appropriate protective measures can be implemented Off-site in the event of a radiological incident occurring at the nuclear power facility.

### **2.2 Exercise Demonstration Criteria and Core Capabilities**

Plume Pathway exercises are conducted to provide FEMA the opportunity to evaluate and assess emergency plans and associated implementing procedures, and facilities and equipment, which would be used in a radiological incident occurring at the nuclear power facility.

Capabilities-based planning allows for exercise planning teams to develop exercise objectives and observe/evaluate exercise outcomes through a framework of specific action items that were derived from the Core Capabilities List. The following Core Capabilities form the basis for FEMA Region IX REP Program objectives observed and evaluated during this exercise.

Environmental Response/Health and Safety

Description: Conduct appropriate measures to ensure the protection of the health and safety of the public and workers, as well as the environment, from all-hazards in support of responder operations and the affected communities.

Mass Care Services

Description: Provide life-sustaining and human services to the affected population, to include hydration, feeding, sheltering, temporary housing, evacuee support, reunification and distribution of emergency supplies.

Operational Communications

Description: Ensure the capacity for timely communications in support of security, situational awareness, and operations by any means available, among and between affected communities in the impacted area and all response forces.

Operational Coordination

Description: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

Planning

Description: Conduct a systematic process engaging the whole community as appropriate in the development of executable strategic, operational, and/or tactical-level approaches to meet defined objectives.

Public Health, Healthcare, and Emergency Medical Services

Description: Provide lifesaving medical treatment via Emergency Medical Services and related operations and avoid additional disease and injury by providing targeted public health, medical, and behavioral health support, and products to all affected populations.

Public Information and Warning

Description: Deliver coordinated, prompt reliable and actionable information to the whole community through the use of clear, consistent, accessible, and culturally and linguistically appropriate methods to effectively relay information regarding any threat or hazard, as well as the actions being taken and the assistance being made available, as appropriate.

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### Situational Assessment

Description: Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects, and the status of the response.

Additionally, each capability is linked to several corresponding activities and tasks to provide additional detail.

## **2.2.1 Demonstration Criteria**

Off-site Response Organizations demonstrated the following criteria contained in FEMA REP Program Manual, (January 2016), and associated core capabilities from the U.S. Department of Homeland Security's National Preparedness Goal (September 2015):

### Evaluation Area 1 – Emergency Operations Management

Criterion 1.a.1: The ORO use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner. (Nuclear Regulatory (NUREG) – 0654/FEMA-REP-1, A.1.a, e; A.3, 4; C.1, 4, 6; D.4; E.1, 2; H.3, 4)

Criterion 1.b.1: Facilities are sufficient to support the emergency response. (NUREG 0654/FEMA-REP-1, G.3.a; H.3; J.10.h; J.12; K.5.b)

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible for. (NUREG-0654/FEMA-REP-1, A.1.d; A.2.a, b; A.3; C.4, 6)

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations. (NUREG - 0654/FEMA-REP-1, F.1, 2)

Criterion 1.e.1: Equipment, maps, displays, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations. (NUREG-0654/FEMA REP-1, H.7, 10; I.7, 8, 9; J.10.a, b, e; J.11, 12; K.3.a; K.5.b)

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### Evaluation Area 2 – Emergency Worker Exposure Control (EWEC)

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers (EWs), including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654/FEMA-REP-1, C.6; J.10.e, f; K.4)

Criterion 2.b.1: Appropriate protective action recommendations (PARs) are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of On-site and Off-site environmental conditions. (NUREG-0654/FEMA-REP-1, I.10 and Supplement 3)

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy). (NUREG 0654/FEMA-REP-1, A.3; C.4, 6; D.4; J.9; J.10.f, m)

Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of persons with disabilities and access/functional needs. (NUREG-0654/FEMA-REP-1, D.4; J.9; J.10.d, e)

### Evaluation Area 3 – Protective Action Implementation

Criterion 3.a.1: The ORO issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to EWs in accordance with the plans/procedures. Emergency workers periodically, and at the end of each mission, read their dosimeters and record the readings on the appropriate exposure record or chart. Appropriate record keeping of the administration of KI for EWs is maintained. (NUREG- 0654/FEMA-REP-1, J.10.e; K.3.a, b; K.4)

Criterion 3.b.1: KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record keeping of the administration of KI for institutionalized individuals is maintained. (NUREG-0654/FEMA-REP-1, J.10.e, f)

Criterion 3.c.1: Precautionary and/or PADs are implemented for persons with disabilities and access/functional needs other than schools within areas subject to protective actions. (NUREG-0654/FEMA-REP-1, J.10.e, f)

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel. (NUREG-0654/FEMA-REP-1, A.3; C.1.4; J.10.g, j)

Criterion 3.d.2: Impediments to evacuation are identified and resolved. (NUREG-0654/FEMA-REP-1, J.10.k)

#### Evaluation Area 4 – Field Measurements and Analyses

Criterion 4.a.2: Field teams (two or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure. (NUREG-0654/FEMA-REP-1, C.1; H.12; I.7, 8, 11; J.10.a)

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low-background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media. (NUREG-0654/FEMA-REP-1, C.1; H.12; I.8, 9; J.10.a)

#### Evaluation Area 5 – Emergency Notification and Public Information.

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized Off-site emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance. (NUREG-0654/FEMA-REP-1, E.5, 6, 7)

Criterion 5.b.1: OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner. (NUREG-0654/FEMA-REP-1, E.5, 7; G.3.a, G.4.a, c)

## **2.2.2 Core Capabilities**

There are three Core Capabilities: Planning, Public Information and Warning, and Operational Coordination. Core Capabilities span three of five Mission Areas. Mission areas serve as an

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aid in integration and coordination to achieve the goal of a secure and resilient nation. Core Capabilities directly involve more than one mission area and are listed within each Mission Area as appropriate.

The following are classifications of those Core Capabilities, with associated Mission Areas, and related REP Program demonstration criteria evaluated during the PPX and OoS Interviews:

Protection Mission Area Core Capabilities are the product of diverse activities, and include the capabilities to safe guard the homeland against acts of terrorism and man-made or natural disasters. Associated diverse activities include:

- Develop protection plans that identify critical objectives based on planning requirements, provide a complete and integrated picture of the sequence and scope of the tasks to achieve the planning objectives, and implement planning requirements within the time frame contemplated within the plan using available resources for protection-related plans.
- Implement, exercise, and maintain plans to ensure continuity of operations.

Protection Mission Area Core Capabilities is met by the demonstration of REP Program criterion: 1.a.1, 1.c.1, 3.a.1, 3.b.1, 3.c.2, 5a.1, and 5.b.1.

Mitigation Mission Area Core Capabilities focus on the premise that individuals, the private and nonprofit sectors, communities, and the Nation as a whole are made more resilient when the consequences and impacts, the duration and human cost to respond to and recover all adverse incidents are reduced. Associated diverse activities include:

- Build and sustain resilient systems, communities, and critical infrastructure and key resources lifelines so as to reduce their vulnerability to natural, technological, and human-caused threats and hazards by lessening the likelihood, severity, and duration of the adverse consequences.
- Assess risk and disaster resilience so that decision makers and responders can take informed action to reduce their entity's risk and increase their resilience.

Mitigation Mission Area Core Capabilities is met by the demonstration of REP Program criterion: 1.d.1, 1.e.1, 3.d.1, 3.d.2, 4.a.2, 4.a.3, 5a.1, and 5.b.1.

Response Mission Area Core Capabilities emphasizes saving and sustaining lives, stabilizing the

incident, rapidly meeting basic human needs, establishing a safe and secure environment, and supporting the transition to recovery. Associated diverse activities include:

- Mobilize all critical resources and establish command, control, and coordination structures within the affected community and other coordinating bodies in surrounding communities and across the Nation.
- Enhance and maintain command, control and coordination structures, consistent with the National Incident Management System.
- Establish physical access through appropriate transportation corridors and deliver required resources to save lives and to meet the needs of disaster survivors.
- Identify, assess, and mitigate worker health and safety hazards and disseminate health and safety guidance and resources to response and recovery workers.
- Deliver medical countermeasures to exposed populations.

Response Mission Area Core Capabilities is met by the demonstration of REP Program criteria:

1.a.1, 1.c.1, 1.e.1, 2.a.1, 2.b.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.d.1, 3.d.2, 5.a.1, and 5.b.1.

## **2.3 Scenario and Extent-of-Play Agreement Summary**

The November 2, 2016, PPX was based on a scenario of events occurring at DCPD that will invoke emergency response actions to be carried out by the OROs.

A technical review of the scenario was completed on October 21, 2016, by FEMA, and indicated that it was adequate to support demonstration of DHS/FEMA requirements, as well as selected Off-site evaluation criteria per the EOP agreement and as provided in the REP Program Manual, (January 2016).

A summary of the DCPD PPX scenario is as follows: (Times listed below were for planning purposes only.)

Initial conditions at DCPD have both units at 100% power and operating at normal operating temperature and pressure.

0809: Containment fan cooling unit, CFCU 1-4, develops a large leak. DCPD operators isolate the leak and electrically disable CFCU 1-4.

0833: Significant mechanical damage to a limited number of fuel pins is caused by loose part. Loose parts finally lodging in upper area of fuel assembly, and Unit 1 shutdown initiated per operating procedure.

0929: Centrifugal charging pump, CCP 1-3, experiences an overcurrent condition, but breaker 52-HG-11 fails to open. Auxiliary transformer 1-2 4kV Bus G feeder breaker 52-HG-13 opens, and 4kV Bus G is de-energized and locked out.

1002: Unit 1 main turbine auto-stop oil pressure rapidly decreases when an oil line threaded fitting fails causing a main turbine to "trip" and initiate a reactor trip signal. The reactor fails to trip, and additional fuel damage occurs. The reactor is successfully tripped, from Control Room 90 seconds later.

1037: A loss of coolant accident occurs causing Containment Area High Range Radiation Monitors RM-30/31 to indicate rising radiation levels in containment. Containment Exhaust Isolation Valve RCV-11 disk mechanically fails and rotates slightly off its seat due to manufacturing defect.

1047: Containment High Radiation Monitors RM-30/31 read > 80 R/hr. This constitutes a potential loss of the containment fission product barrier. (PAR to Evacuate Protective Action Zone (PAZ) 1 & 2, & surrounding Ocean out to 5 Nautical Miles)

1126 : Containment loss and radiological release due to containment exhaust isolation valve RCV-12 also rotates off its seat due to common-mode failure as RCV-11, initiating an Off-site radiological release. Radiological release is monitored by plant vent effluent monitors. (PAR Upgrade to Evacuate PAZ 3)

1326: Radiological release is terminated by repairing and closing mechanical damper MD-35, downstream in the effluent pathway.

1330: ENDEX - Approximate time set for exercise termination.

#### Extent-of-Play Agreement Summary:

The purpose of the EOP agreement is to identify, and negotiate, demonstration criteria and any

planned deviations from the implementation of the applicable plans that will be evaluated during the exercise. Applicable plans include the state of California NPP Emergency Response Plan, the California Department of Public Health (DPH) NPP Emergency Response Procedures (also contained within the State NPP Plan), and San Luis Obispo County NPP Emergency Response Plans and Procedures. The State and OROs will implement applicable elements in these plans and procedures.

The expected outcome of the OROs is that they demonstrate reasonable assurance that the public can be protected during a NPP incident.

The expected outcome of State participation, in the exercise, is to support OROs in their effort for them to demonstrate reasonable assurance that the public can be protected during a NPP incident.

Pursuant to FEMA policy, federal agencies are not evaluated during an evaluated exercises or drill. Federal actions that result in State or ORO non-compliance of an evaluation area may be documented by the evaluator but will not result in any finding.

The FEMA Lead Evaluator and the State Lead ORO Exercise Controller will terminate the exercise when all parties agree that all the required demonstration criteria have been adequately demonstrated and evaluated.

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## SECTION 3: ANALYSIS OF CAPABILITIES

### 3.1 Exercise Evaluation and Results

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities that participated in the November 2, 2016, PPX, and the OoS Interviews in October 12 - 13, 2016, demonstrating portions of the Off-site emergency response capabilities outside the EPZ surrounding DCP.

Each jurisdiction and functional entity was evaluated on its demonstration of selected criteria as indicated in the EOP agreement and as outlined in the FEMA REP Program Manual, (January 2016).

### 3.2 Summary Results of Exercise Evaluation

The matrix in table 3.1 presents the status of all exercise Assessment Areas and sub-element criterion that were demonstrated, for evaluation during the PPX, by all participating jurisdictions and functional entities. The demonstration status of those criteria is indicated by the use of an alphanumeric key, which is as follows:

- L1 – Level 1 Finding was identified (previously listed as an ARCA)
- L2 – Level 2 Finding was identified (previously listed as an Deficiency)
- M – Met (No L1 or L2's assessed and no unresolved ARCAs from prior exercises)
- N – Not Demonstrated
- P – Plan Issue was identified

The REP Program uses the following alphanumeric key definitions as defined in the FEMA REP Program Manual, (January 2016):

Level 1 Finding: "An observed or identified inadequacy of organizational performance in an exercise that could cause a determination that Off-site emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency to protect the health and safety of the public living in the vicinity of a nuclear power plant."

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Level 2 Finding: "An observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety."

Met: "The jurisdiction or functional entity performed all activities under the Demonstration Criterion to the level required in the EOP agreement, with no Level 1 or Level 2 Findings assessed under that criterion in the current exercise and no unresolved prior Level 2 Findings."

Not Demonstrated: "A justifiable reason, the jurisdiction or functional entity did not perform activities under the Demonstration Criterion as specified in the EOP agreement or at the frequency required in Exhibit III-2."

Plan Issue: "An observed or identified inadequacy in the ORO's emergency plan/procedures, rather than in the ORO's performance."

The identifying number for L1 Finding and L2 Finding includes the following elements, with each element separated by a hyphen (-).

- Plant Site Identifier – A two-digit number corresponding to the Utility Billable Plant Site Codes (19 is the code for Diablo Canyon Power Plant).
- Exercise Year – The last two digits of the year the exercise was conducted.
- Demonstration Criterion – An alpha letter and two-digit number corresponding to the criteria in the FEMA REP Exercise Evaluation Methodology.
- Issue Classification Identifier – (L1, L2, P)
- Exercise Issue Identification Number – A separate two (or three) digit indexing number assigned to each issue identified in the exercise.

Table 3.1 - Summary of Exercise Evaluation

DATE: 2016-11-02 SITE: Diablo Canyon Power Plant, CA L1: Level 1 Finding, L2: Level 2 Finding M: Met, P: Plan Issue, N: Not Demonstrated	DEMONSTRATION CRITERIA	SLO Emergency Operations Center	Unified Dose Assessment Center	Field Monitoring Team Alpha	Field Monitoring Team Bravo	Field Monitoring Team Charlie	Joint Information Center (JIC)	Phone Assistance Center	Public Works Department Operations Center	County Health Agency Department Operations Center	County Office of Education Department Operations	County Fire Station # 63 (OoS Interview)	Emergency Alert System Radio Station 920 KVEC	San Luis Coastal Unified School (OoS Interview)
Emergency Operations Management														
Mobilization	1a1	M	M	M	M	M	M	M	M	M	M			
Facilities	1b1													
Direction and Control	1c1	M	M	M	M	M	M	M	M	M	M			
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M	M		M	
Equipment and Supplies to Support Operations	1e1	M	M	M	M	M	M	M	M	M	M	M		M
Protective Action Decision Making														
EW Exposure Control Decision Making	2a1	M												
Protective Action Recommendations	2b1	M	M	M	M	M								
Protective Action Decisions	2b2	M												
PADs for Disabled/Functional Needs	2c1	M												
Protective Action Implementation														
Implementation of Emergency Worker Exposure Control	3a1	M		M	M	M						M		M
Implementation of KI Decision for Institutionalized Individuals and the Public	3b1		M	M	M	M			M					
Imp. of Protective Actions for Schools	3c2										M			
Implementation of Traffic and Access Control	3d1	M							M					
Impediments to Evacuation	3d2													
Field Measurement and Analysis														
Field Team Management	4a2		M	M	M	M								
Field Team Operations	4a3			M	M	M								
Emergency Notification and Public Info														
Initial Alert & Notification	5a1	M											M	M
Emergency Information and Instructions for the Public and the Media	5b1	M					M	M					M	M

<p>DATE: 2016-11-02</p> <p>SITE: Diablo Canyon Power Plant, CA</p> <p>L1: Level 1 Finding, L2: Level 2 Finding</p> <p>M: Met, P: Plan Issue, N: Not Demonstrated</p>	DEMONSTRATION CRITERIA	Port San Luis Harbor District	Off-site Emergency Laboratory	SLO County Sheriff (OoS Interview)	SLO County Public Works (OoS Interview)	City of Pismo Beach EOC	City of Pismo Beach Police (OoS Interview)	City of Pismo Beach Public Works (OoS Interview)	City of Pismo Beach Fire # 64 (OoS Interview)	Caltrans (OoS Interview)	California Highway Patrol (OoS Interview)	California Department of Parks and Recreation (OoS Interview)		
	Emergency Operations Management													
	Mobilization	1a1	M	M	M	M	M	M	M	M	M	M		
	Facilities	1b1												
	Direction and Control	1c1	M			M								
	Communications Equipment	1d1	M			M								
	Equipment and Supplies to Support Operations	1e1	M	M	M	M	M	M	M	M	M	M		
	Protective Action Decision Making													
	EW Exposure Control Decision Making	2a1												
	Protective Action Recommendations	2b1												
	Protective Action Decisions	2b2												
	PADs for Disabled/Functional Needs	2c1												
	Protective Action Implementation													
	Implementation of Emergency Worker Exposure Control	3a1	M	M	M	M	M	M	M	M	M	M		
	Implementation of KI Decision for Institutionalized Individuals and the Public	3b1	M											
	Imp. of Protective Actions for Schools	3c2												
	Implementation of Traffic and Access Control	3d1	M	M	M	M	M	M	M	M	M	M		
	Impediments to Evacuation	3d2								M	M			
	Field Measurement and Analysis													
	Field Team Management	4a2												
	Field Team Operations	4a3		M										
	Emergency Notification and Public Info													
	Initial Alert & Notification	5a1												
	Emergency Information and Instructions for the Public and the Media	5b1												

<p>DATE: 2016-11-02</p> <p>SITE: Diablo Canyon Power Plant, CA</p> <p>L1: Level 1 Finding, L2: Level 2 Finding</p> <p>M: Met, P: Plan Issue, N: Not Demonstrated</p>		<p>DEMONSTRATION CRITERIA</p> <p>CalOES @ Unified Dose Assessment Center</p> <p>Calif. Dept. Public Health @ Unified Dose Assessment</p> <p>CalOES @ Joint Information Center</p> <p>Calif. Dept. Public Health @ Joint Information Center</p> <p>Calif. Highway Patrol @ Joint Information Center</p> <p>Calif. Department of Parks and Recreation @ Joint Information Center</p> <p>CalOES State Operations Center</p> <p>California State Warning Center</p>									
Emergency Operations Management											
Mobilization	1a1	M	M		M	M				M	M
Facilities	1b1									M	M
Direction and Control	1c1	M	M							M	M
Communications Equipment	1d1	M	M		M	M	M	M		M	M
Equipment and Supplies to Support Operations	1e1	M	M		M	M	M	M		M	M
Protective Action Decision Making											
EW Exposure Control Decision Making	2a1										
Protective Action Recommendations	2b1		M								
Protective Action Decisions	2b2										
PADs for Disabled/Functional Needs	2c1										
Protective Action Implementation											
Implementation of Emergency Worker Exposure Control	3a1										
Implementation of KI Decision for Institutionalized Individuals and the Public	3b1										
Imp. of Protective Actions for Schools	3c2										
Implementation of Traffic and Access Control	3d1										
Impediments to Evacuation	3d2										
Field Measurement and Analysis											
Field Team Management	4a2										
Field Team Operations	4a3										
Emergency Notification and Public Info											
Initial Alert & Notification	5a1										
Emergency Information and Instructions for the Public and the Media	5b1										

### **3.3 Criteria Evaluation Summaries**

#### **3.3.1 California Jurisdictions**

##### **3.3.1.1 California Department of Transportation (OoS)**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.e.1, 3.a.1, 3.d.1, 3.d.2
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

##### **3.3.1.2 California Highway Patrol (OoS)**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.e.1, 3.a.1, 3.d.1, 3.d.2
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

##### **3.3.1.3 California Department of Parks and Recreation (OoS)**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.e.1, 3.a.1, 3.d.1
- b. LEVEL 1 FINDING: None

- 
- c. LEVEL 2 FINDING: None
  - d. PLAN ISSUES: None
  - e. NOT DEMONSTRATED: None
  - f. PRIOR ISSUES - RESOLVED: None
  - g. PRIOR ISSUES - UNRESOLVED: None

#### **3.3.1.4 California Governor's Office of Emergency Services – State Warning Center**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.b.1, 1.d.1
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

#### **3.3.1.5 California Governor's Office of Emergency Services – State Operations Center**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 3.d.2
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2 Risk Jurisdictions**

#### **3.3.2.1 Bellevue – Santa Fe Charter School / San Luis Costal Unified School District (OoS)**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.e.1, 3.a.1.
- h. LEVEL 1 FINDING: None
- i. LEVEL 2 FINDING: None
- j. PLAN ISSUES: None
- k. NOT DEMONSTRATED: None
- l. PRIOR ISSUES - RESOLVED: None
- m. PRIOR ISSUES - UNRESOLVED: None

#### **3.3.2.2 City of Pismo Beach Fire Station # 64, Public Works and Police Departments (OoS)**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.e.1, 3.a.1, 3.d.1
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

#### **3.3.2.3 City of Pismo Beach Emergency Operations Center**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 3.a.1, 3.d.1
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None

- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

#### **3.3.2.4 San Luis Obispo County Emergency Operations Center**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.d.1, 5.a.1, 5.b.1.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

#### **3.3.2.5 San Luis Obispo County Field Monitoring Team – ALPHA**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 1.e.1, 3.a.1, 4.a.3.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

**3.3.2.6 San Luis Obispo County Field Monitoring Team - BRAVO**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 1.e.1, 3.a.1, 4.a.3.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

**3.3.2.7 San Luis Obispo County Field Monitoring Team - CHARLIE**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 4.a.3.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

**3.3.2.8 San Luis Obispo County Fire Station # 63**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.e.1, 3.a.1.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None

- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.9 San Luis Obispo County Health Agency Department Operations Center**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.10 San Luis Obispo Joint Information Center**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 5.b.1
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.11 San Luis Obispo County Office of Education Department Operations Center**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 3.c.2.
- b. LEVEL 1 FINDING: None

- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

#### **3.3.2.12 San Luis Obispo Phone Assistance Center**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

#### **3.3.2.13 San Luis Obispo County Public Works and Transportation**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 3.b.1, 3.d.1.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

**3.3.2.14 San Luis Obispo County Sheriff (OoS)**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.b.1, 3.a.1.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

**3.3.2.15 San Luis Obispo County Unified Dose Assessment Center**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.b.1, 3.a.1.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

**3.3.2.16 Port San Luis Harbor District**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 3.a.1, 3.d.1.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None

- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.3 Private Organizations**

#### **3.3.3.1 Emergency Alert System Radio Station: KVEC 920 AM (OoS)**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 5.a.1, 5.b.1.
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

## SECTION 4: CONCLUSION

FEMA Region IX evaluated an Off-site biennial PPX on November 2, 2016, in the Plume Exposure Pathway EPZ around DCP, and OoS Interviews on October 12 - 13, and November 3, 2016. The purpose of the exercise, and OoS Interviews, was to assess the level of local and State emergency preparedness in response to a simulated radiological incident. This exercise was conducted in accordance with FEMA policies, guidance concerning local, State RERPs, and procedures.

The findings presented in this report are based on the evaluations of the federal evaluation team, with final determinations made by the FEMA Region IX Acting Regional Assistance Committee Chair and approved by the Regional Administrator.

There were no Level One or Two Findings, or Planning Issues identified during this exercise for the local OROs and the State.

Based on the evaluation of the November 2, 2016, exercise and subsequent OoS Interviews, the Off-site radiological emergency response plans for the state of California and the affected local jurisdictions, site-specific to DCP, can be implemented, and are adequate to provide reasonable assurance that appropriate measures can be taken Off-site to protect the health and safety of the public in the event of a radiological emergency at DCP.

Therefore, Title 44 C.F.R. § 350, approval of the Off-site radiological emergency response plans and preparedness for the state of California site-specific to DCP will remain in effect.

## APPENDIX A: EXERCISE TIMELINE

Table 1 - Exercise Timeline  
DATE: 2016-11-2, SITE: Diablo Canyon Power Plant, CA

Emergency Classification Level or Event	Time Utility Declared	CalOES State Operations Center	Pismo Beach EOC	County Health Agency Department Operations Center	Public Works DOC	Joint Information Center	FMT Alpha
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0846	0854	0903	09088	0905	0944	1001
Site Area Emergency	1008	1015	1023	1027	1019	1032	1010
General Emergency	1049	1100	1106	1107	1112	1112	1054
Simulated Rad. Release Started	1128	1205	N/A	1205	N/A	1140	1129
Simulated Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		0909	0948	0930	0933	0943	N/A
Declaration of Local Emergency		1326	N/A	1347	N/A	1042	N/A
Exercise Terminated		1352	1350	1350	1258	1336	1338
Early Precautionary Actions: Established a 10 Nautical Mile Radius and a No Fly Zone		N/A	N/A	N/A	N/A	1006	N/A
Early Precautionary Actions: Closed Montana De Oro State Park and the North Beaches		1145	N/A	N/A	N/A	1006	N/A
1st Protective Action Decision:		N/A	1136	N/A	N/A	N/A	N/A
1st Siren Activation		N/A	1054	1055	N/A	N/A	N/A
1st EAS Message		N/A	N/A	1057	N/A	N/A	N/A
2nd Protective Action Decision: Evacuate PAZ 1 and 2		N/A	1209	N/A	N/A	1208	1215
2nd Siren Activation		N/A	1216	N/A	1205	1208	N/A
2nd EAS Message		N/A	N/A	1219	N/A	1208	N/A

**Table 1 - Exercise Timeline**  
**DATE: 2016-11-2, SITE: Diablo Canyon Power Plant, CA**

Emergency Classification Level or Event	Time Utility Declared	FMT Bravo	FMT Charlie	Port San Luis Harbor District	SLO EOC	Unified Dose Assessment Center	California State Warning Center
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0846	1001	N/A	N/A	0854	N/A	0854
Site Area Emergency	1008	1010	N/A	1024	1008	N/A	N/A
General Emergency	1049	1054	N/A	1108	110	N/A	N/A
Simulated Rad. Release Started	1128	1129	N/A	1049	N/A	N/A	N/A
Simulated Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		N/A	0955	N/A	0924	0928	N/A
Declaration of Local Emergency		N/A	N/A	N/A	1120	N/A	N/A
Exercise Terminated		1338	N/A	1303	1256	1256	N/A
Early Precautionary Actions: Established a 5 Nautical Mile Radius and a No Fly Zone		N/A	N/A	N/A	0838	N/A	N/A
Early Precautionary Actions: Closed Montana De Oro State Park and the North Beaches		N/A	N/A	0917	0917	N/A	N/A
1st Protective Action Decision:		N/A	N/A	N/A	N/A	N/A	N/A
1st Siren Activation		N/A	N/A	N/A	1054	N/A	N/A
1st EAS Message		N/A	N/A	1054	1054	N/A	N/A
2nd Protective Action Decision: Evacuate PAZ 1 and 2		1215	N/A	1200	1200	N/A	N/A
2nd Siren Activation		N/A	N/A	1212	1212	N/A	N/A
2nd EAS Message		N/A	N/A	1215	1215	N/A	N/A

## APPENDIX B: EXERCISE EVALUATORS AND \*TEAM LEADERS

LOCATION	EVALUATOR	AGENCY
California Department of Transportation "Caltrans" (Out-of-Sequence Interview)	*John Woytak	FEMA RIX
CHP Field Operations (Out-of-Sequence Interview)	*John Woytak	FEMA RIX
California Department of Parks and Recreation (Out-of-Sequence Interview)	*John Woytak	FEMA RIX
California State Warning Center	* Paul Anderson	FEMA RIX
City of Pismo Beach EOC	Brad DeKorte *Todd Smith	FEMA RVI USDA/APHIS
City of Pismo Beach Police Dept. (Out-of-Sequence Interview)	*John Woytak	FEMA RIX
County Health Agency Department Operations Center	*LaShawn Halsey	FEMA HQ
County Public Works Department Operations Center	*Lee Torres Laurel Ryan	FEMA RIII FEMA RIX
County Sheriff (Out-of-Sequence Interview)	*John Woytak	FEMA RIX
Joint Information Center	*Barbara Thomas Kelly Hudson	FEMA RI FEMA RIX
Off-site Field Monitoring Team Alpha	*Ken Wierman	FEMA HQ
Off-site Field Monitoring Team Bravo	Thomas Essig	ICFI
Off-site Field Monitoring Team Charlie	Dennis Wilford	ICFI
Port San Luis Harbor District	*Alberto Sifuentes John Woytak	FEMA RIX
Monarch Grove Elementary School / San Luis Coastal Unified School District (Out-of-Sequence Interview)	*Alberto Sifuentes John Woytak	FEMA RIX
San Luis Obispo County Emergency Operations Center	Roy Smith Ryan Jones *Scott Flowerday Chris Cammart	ICFI FEMA RI FEMA RVI FEMA RII
San Luis Obispo County Phone Assistance Center	Elena Joyner	FEMA RIX
Unified Dose Assessment Center	*Daryl Thome Jill Leatherman	ICFI ICFI
County Public Works (Out-of-Sequence Interview)	*Alberto Sifuentes	FEMA RIX
City of Pismo Beach Fire Dept. Station #63 (Out-of-Sequence Interview)	*John Woytak	FEMA R IX
City of Pismo Beach Public Works Dept. (Out-of-Sequence Interview)	*Alberto Sifuentes	FEMA RIX
County Fire Station #15 (Out-of-Sequence Interview)	*John Woytak	FEMA RIX
Emergency Alert System Radio Station (Out-of-Sequence Interview)	*Alberto Sifuentes John Woytak	FEMA RIX
County Office of Education Department Operations Center	*Joseph Suders Jimmy Wortham	FEMA RIII USDA/APHIS

## APPENDIX C: ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
ARCA	Area(s) Requiring Corrective Action
Cal OES	California Governor's Office of Emergency Services
Caltrans	California Department of Transportation
C.F.R.	Code of Federal Regulations
CHP	California Highway Patrol
DCPP	Diablo Canyon Power Plant
DHS	Department of Homeland Security
DOC	Department Operations Center
DPH	Department of Public Health
DPR	California Department of Parks and Recreation
ECL	Emergency Classification Level
EOC	Emergency Operations Center
EOP	Extent-of-Play
EPZ	Emergency Planning Zone
EW	Emergency Worker
EWEC	Emergency Worker Exposure Control
FEMA	Federal Emergency Management Agency
FMT	Field Monitoring Team
JIC	Joint Information Center
KI	Potassium Iodide
L1	Level 1 Finding
L2	Level 2 Finding
OES	Office of Emergency Services
OoS	Out-of-sequence
ORO	Off-site Response Organization
PAD	Protective Action Decision
PAR	Protective Action Recommendation
PPE	Personal Protective Equipment
PPX	Plume Phase Exercise
RAC	Regional Assistance Committee
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plans
SLO	San Luis Obispo

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