



FEMA

FEB 12 2013

Mr. Elmo E. Collins, Jr.  
Regional Administrator  
U.S. Nuclear Regulatory Commission Region IV  
1600 East Lamar Boulevard  
Arlington, Texas 76011

Bill  
Mayer  
we should share  
w/ SLO mayor  
the SLO people  
who participated.

Dear Mr. Collins:

I am forwarding a copy of the Final After Action Report for the biennial Plume Phase Exercise held in San Luis Obispo County on November 7, 2012, 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 by the U.S. Department of Homeland Security's Federal Emergency Management Agency, Region IX Radiological Emergency Preparedness Program staff.

No deficiencies were identified during this exercise for the state of California or San Luis Obispo County. There were no Areas Requiring Corrective Action (ARCA) identified as a result of the exercise.

Based on the evaluation of the November 7, 2012, biennial Plume Phase Exercise, the offsite radiological emergency response plans for the state of California and the affected local jurisdictions site-specific to DCPP can be implemented, and are adequate to provide reasonable assurance that appropriate measures can be taken offsite 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 offsite radiological emergency response plans and preparedness for the state of California, site-specific to DCPP, will remain in effect.


I would also like to take this opportunity to acknowledge the many individuals that participated in this successful exercise. Their dedication to this program was clearly evident.



Mr. Elmo E. Collins, Jr.  
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If you have any questions or need additional information, please contact me at (510) 627-7100. Your staff may also contact Alberto Sifuentes, DCPD Site-Specialist, at (510) 627-7108, or Richard Grundstrom, Radiological Assistance Committee Chair, at (510) 627-7240.

Sincerely,

  
Nancy Ward  
Regional Administrator  
FEMA Region IX

Enclosure

cc: NRC Headquarters Document Control Desk  
US Nuclear Regulatory Commission  
Washington, DC 20555-0001

Vanessa Quinn, Chief  
Radiological Emergency Preparedness Branch  
FEMA Headquarters







Diablo Canyon Power Plant

# After Action Report/ Improvement Plan

Exercise Date - November 07, 2012

Radiological Emergency Preparedness (REP) Program



**FEMA**

*Published*

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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, Federal Emergency Management Agency (FEMA), Region IX National Preparedness Directorate - Technical Branch, conducted an off-site physical plant exercise in the Electric Power Research Institute (EPRI) Planning Zone (EPZ) around the Diablo Canyon Power Plant (DCPP) on November 7, 2012. Out-of-plant personnel were conducted on November 8, 2012.

The purpose of the exercise was to assess the level of state and local preparedness in response to a radiological emergency at DCPP. This drill was held in accordance with FEMA's policies and guidance concerning the implementation of state and local Radiological Emergency Response Plans (RERP) and procedures.

The previous physical exercise at DCPP was conducted on August 1, 2010. The qualifying emergency preparedness exercise was conducted on August 18, 1981.

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FEMA wishes to acknowledge the individuals who participated in this exercise. Promoting the public health and safety is the full-time job of some of the exercise participants and additional assigned responsibility for others. Still, others have willingly sought this responsibility by volunteering to provide their emergency services to their communities. Cooperation and teamwork of all the participants were evident during this exercise.

This After Action Report (AAR) contains the draft written evaluation of the physical exercise. All state and local organizations, except where noted in this report, demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no deficiencies and no Area Emergency Committee (AEC/A) identified during the course of the exercise. No AEC/A were concerned and there were no AEC/A from a previous exercise corrected. No AEC/A remain uncorrected from previous exercises.

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## EXECUTIVE SUMMARY

The U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA), Region IX National Preparedness Division - Technological Hazards Branch, evaluated an offsite biennial Plume Phase Exercise in the Plume Exposure Pathway Emergency Planning Zone (EPZ) around the Diablo Canyon Power Plant (DCPP) on November 7, 2012. Out-of-sequence interviews were conducted on November 8, 2012.

The purpose of the exercise was to assess the level of state and local preparedness in response to a radiological emergency at DCPP. This drill was held in accordance with FEMA's policies and guidance concerning the implementation of state and local Radiological Emergency Response Plans (RERP) and procedures.

The previous biennial exercise at DCPP was conducted on August 11, 2010. The qualifying emergency preparedness exercise was conducted on August 19, 1981.

FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. Protecting the public health and safety is the full-time job of some of the exercise participants and additional assigned responsibility for others. Still others have willingly sought this responsibility by volunteering to provide vital emergency services to their communities. Cooperation and teamwork of all the participants were evident during this exercise.

This After Action Report (AAR) contains the draft written evaluation of the biennial exercise. All state and local organizations, except where noted in this report, demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no deficiencies and no Area Requiring Corrective Action (ARCA) identified during the course of the exercise. No ARCAs were corrected and there were no ARCAs from a previous exercise corrected. No ARCAs remain uncorrected from previous exercise.

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## SECTION 1: EXERCISE OVERVIEW

### 1.1 Exercise Details

**Exercise Name**

Diablo Canyon Power Plant

**Type of Exercise**

Plume

**Exercise Date**

November 07, 2012

**Program**

Department of Homeland Security/FEMA Radiological Emergency Preparedness 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 Health Services
- California Department of Parks and Recreation
- California Department of Public Health
- California Department of Transportation
- California Emergency Management Agency
- California Fire Department
- California Highway Patrol
- California Men's Colony

### Risk Jurisdictions

- Bellevue - Santa Fe Charter School
- CALFIRE/SLO County Fire
- City of Pismo Beach
- City of Pismo Beach Police Department
- Port San Luis Harbor District
- San Luis Costal Unified School District
- San Luis Obispo County Air Pollution Control District
- San Luis Obispo County Board of Supervisors
- San Luis Obispo County Communications Shop
- San Luis Obispo County Counsel
- San Luis Obispo County Department of Agriculture, Weights and Measures
- San Luis Obispo County Department of Social Services
- San Luis Obispo County Environmental Health Services
- San Luis Obispo County Fire Station #62
- San Luis Obispo County General Services Agency
- San Luis Obispo County Human Resources Department
- San Luis Obispo County Information and Technology Department
- San Luis Obispo County Office of Education
- San Luis Obispo County Office of Emergency Services
- San Luis Obispo County Planning and Building Department

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San Luis Obispo County Public Health Agency  
San Luis Obispo County Public Works Department  
San Luis Obispo County Sheriff's Office  
San Luis Obispo County Animal Services  
San Luis Obispo Regional Transit Authority

**Private Organizations**

American Red Cross  
KJUG 98.1 FM Radio Station  
Pacific Gas and Electric Diablo Canyon Power Plant  
Radio Amateur Civil Emergency Services  
Regional Disaster Medical Coordinator

**Federal Jurisdictions**

Federal Emergency Management Agency  
United States Coast Guard  
United States Department of Agriculture, Animal and Plant Health and Inspection  
Service

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

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

The Diablo Canyon Power Plant Emergency Plan describes their capability to respond effectively to a radiological emergency at the site, and provides a detailed description of DCP's interaction with Federal, State, and local government agencies and private organizations. The Emergency Plan (EP) provides for continuous emergency preparedness including the conduct of an annual exercise and preparatory drills.

The purpose of this exercise is to activate and evaluate portions of the state of California's EP, San Luis Obispo County Nuclear Power Plant Admin Plan, and associated implementing procedures in accordance with Title 44 C.F.R. § 350; and their ability to implement plans and procedures to protect the health and safety of the public.

The extent-of-play (EOP) agreement, Appendix F, was designed to provide the scope and basis for the conduct of a simulated radiological accident scenario at the DCP, located near San Luis Obispo, California, through which the capabilities and effectiveness of the emergency response plans for the DCP's, the state of California and the San Luis Obispo County can be evaluated.

The scenario was developed by DCP, and was reviewed by ICFI, on behalf of FEMA, prior to the final review and approval by FEMA Region IX.

### **2.2 Exercise Objectives, Capabilities and Activities**

Diablo Canyon Power Plant Emergency Preparedness Exercises and Drills are conducted to test and provide the opportunity to evaluate emergency plans, and associated implementing procedures; and facilities, and equipment which would be used in an emergency. This exercise tested DCP emergency response organization's ability to assess and respond to emergency conditions and coordinate efforts with other agencies for protection of the health and safety of the public.

This exercise included full participation by the state of California and San Luis Obispo County. A summary of the specific areas to be evaluated for all the participating organizations are listed in Table 3.1, page 16.



## 2.3 Scenario Summary

This section contains a summary of the simulated sequence of events used as the basis for invoking emergency response actions by the Offsite Response Organizations (OROs) during the DCPD biennial exercise on November 7, 2012, submitted to FEMA by the state of California and DCPD.

Results of a technical review of the scenario, completed on September 8, 2012, indicated that the scenario was adequate to support demonstration of DHS/FEMA requirements, as well as criteria selected by the OROs provided in the state of California's August 10, 2012, Extent-of-Play submission. On September 13, 2012, DHS/FEMA Region IX approved this exercise scenario.

During the exercise, in addition to information and data provided through the DCPD onsite scenario, controllers from the state of California provided "inject messages" containing scenario events and/or relevant data to those persons or locations who would normally receive notification of such events. These inject messages were the method used in invoking additional specific response actions by OROs.

Time	Event Name	Event Description
-----	-----	-----
0700	Drill Starts	<p>Drill Readiness and Establishment of Initial Conditions:</p> <ul style="list-style-type: none"> <li>- Simulator Setup.</li> <li>- Drill controller final briefings.</li> <li>- Drill controller final.</li> <li>- Onshift player briefings.</li> <li>- Control cell and field activity preparation.</li> <li>- Offsite authority notification.</li> <li>- Final readiness check prior to commencing drill activities</li> </ul>



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Plant Status / Out of Service Equipment:

- U1 at 100% power
- CCP 1-1 is in MOW and cleared.
- U2 operating at 100% power.
- U2 DG 2-3 test run in progress  
(returning DG from MOW)

Simulator Operating Crew takes the watch at 0800.

0802	U1 Instrument Failure	U1 Rod Control Input Tavg Fails High (rods drive in): <ul style="list-style-type: none"><li>- Operator takes manual control, rods stop moving.</li><li>- Tavg channel failing high.</li><li>- Ops restore, rods back to auto.</li><li>- I&amp;C Team to investigate failure.</li></ul>
0818	U1 Clad Damage	U1 Minor Clad Damage occurs: <ul style="list-style-type: none"><li>- Alarms received on DMIMS.</li><li>- Dose Point reading 1-foot from letdown line &gt;3 R/hr.</li><li>- U1 Unusual Event Declared (SU5.1).</li><li>- Determine when to shut down U1 (T.S. 3.4.16).</li></ul>
0848	U2 Cardox Initiation	U2 Cardox initiation into DG 2-3 room: <ul style="list-style-type: none"><li>- DG 2-3 room inaccessible due to Cardox IDLH.</li><li>- U2 Escalate Emergency Classification (HA3.1).</li><li>- Initiate VANS / ERO Activates Facilities.</li></ul>
1005	Out of Sequence FMT and OEL Sample and Analysis	FMT delivers environmental samples to the OEL for analysis.

- 
- |      |   |  |
|------|---|--|
| 1033 | U1 Clad Damage                          | U1 Major Clad Damage occurs: <ul style="list-style-type: none"><li>- Dose Point reading 1-foot from letdown line &gt; 15 R/hr.</li><li>- Emergency Classification FA1.1 – already in ALERT.</li><li>- U1 shutdown at increased rate.</li></ul>   |
|      |   |  |
| 1149 | U1 SGTR and<br>and Radiological Release | SG 1-4 SGTR with failed open Relief Valve: <ul style="list-style-type: none"><li>- U1 SI / Reactor Trip.</li><li>- CCP 1-2 fails (breaker does not re-close) after bus transfer.</li><li>- 1-1 CCP / Both SI / Both RHR available.</li><li>- S/G 1-4 10% valve fails open (MECH failure).</li><li>- U1 Escalate Emergency Classification (GE).</li><li>- PAR Declared (Evacuate PAZ 1 and 2, Shelter PAZ 3).</li></ul> |
|      |   |  |
| 1400 | Drill Termination                       | Drill Termination: <ul style="list-style-type: none"><li>- Time for exercise termination is approximate.</li><li>- Ensure DCPD and offsite objectives have been demonstrated.</li></ul>  |

## **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 7, 2012 biennial Plume Phase Exercise to test the offsite emergency response capabilities of state and local governments in the EPZ surrounding DCP.

Each jurisdiction and functional entity was evaluated based on its demonstration of selected criteria as indicated in the EOP agreement and as delineated in "Emergency Preparedness: Exercise Evaluation Methodology" as printed in the Federal Register, September 12, 2001, and April 25, 2002. Detailed information on the EOP agreement used in this exercise is found in Appendix F of this report.

### **3.2 Summary Results of Exercise Evaluation**

The matrix illustrated in Table 3.1, presents the status of all exercise evaluation area criteria that were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. Exercise criteria are listed by number and the demonstration status is indicated by the use of the following letters:

M - Met (No Deficiency or ARCs assessed and no unresolved ARCs from prior exercises)

D - Deficiency assessed

A - ARCs assessed or unresolved ARCs from prior exercises

N - Not Demonstrated (Reason explained in extent-of-play agreement)

Presented below are definitions of the terms used in this section relative to criteria demonstration status.

- Met – Listing of the demonstrated exercise evaluation area criteria under which no Deficiencies or ARCs were assessed during this exercise and under which no ARCs assessed during prior exercises remain unresolved.



- 
- **Deficiency** – Listing of the demonstrated exercise evaluation area criteria under which one or more Deficiencies were assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.
  - **Area Requiring Corrective Action** – Listing of the demonstrated exercise evaluation area criteria under which one or more ARCAs were assessed during the current exercise. Included is a description of the ARCAs assessed during this exercise and the recommended corrective actions to be demonstrated before or during the biennial exercise.
  - **Not Demonstrated** – Listing of the exercise evaluation area criteria that were scheduled to be demonstrated during this exercise, but were not demonstrated and the reason they were not demonstrated.
  - **Prior Issue – Resolved** – Descriptions of issues assessed during previous exercises that were resolved in this exercise and the corrective actions demonstrated.
  - **Prior Issue – Unresolved** – Descriptions of issues assessed during prior exercises that were not resolved in this exercise. Included are the reasons the issues remain unresolved and recommended corrective actions to be demonstrated before or during the next biennial exercise. The following are classifications of the three types of issues that are discussed in this report:

A Deficiency is defined in the FEMA REP Program Manual, April 2012 as “...an observed or identified inadequacy of organizational performance in an exercise that could cause a finding that offsite 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”.

An ARCA is defined in the FEMA REP Program Manual, April 2012 as “...an observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety.”

FEMA has developed a standardized system for numbering issues. This system is used to achieve consistency in numbering exercise issues among FEMA Regions and site specific



exercise reports within each Region. It is also used to expedite tracking of exercise issues on a nationwide basis.

The identifying number for Deficiencies and ARCAs 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 for Diablo Canyon).
- Exercise Year – The last two digits of the year the exercise was conducted.
- Evaluation Area Criterion – An alpha and two-digit number corresponding to the criteria in the FEMA REP Exercise Evaluation Methodology.
- Issue Classification Identifier – (D = Deficiency, A = ARCA)
- Exercise Issue Identification Number – A separate two digit indexing number assigned to each issue identified in the exercise.

Table 3.1 - Summary of Exercise Evaluation (2 pages)

		CalEMA SREOC	CALTRANS (Field Ops Interview)	CHP	PBEOC	PBPDFW (Field Ops Interview)	CFS #62	CHADOC	COEDOC	PWDOC	County Sheriff (Field Ops Interview)	EAS Radio Station (Interview)	JIC
Emergency Operations Management													
Mobilization	1a1	M			M	M	M	M	M	M			M
Facilities	1b1	M					M						
Direction and Control	1c1	M			M	M	M	M	M	M			M
Communications Equipment	1d1	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
Protective Action Decision Making													
Emergency Worker Exposure Control	2a1												
Dose Assessment & PARs & PADs for the Emergency Event	2b1												
Dose Assessment & PARs & PADs for the Emergency Event	2b2												
PADs for the Protection of persons with disabilities and access/functional needs	2c1								M				
Radiological Assessment and Decision-making for the Ingestion Exposure Pathway	2d1												
Radiological Assessment & Decision-making Concerning Post-Plume Phase Relocation, Reentry, and Return	2e1												
Protective Action Implementation													
Implementation of Emergency Worker Exposure Control	3a1		M	M	M	M	M			M	M		
Implementation of KI Decision for Institutionalized Individuals and the Public	3b1		M	M	M	M				M	M		
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c1							M					
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c2												
Implementation of Traffic and Access Control	3d1		M	M	M	M				M	M		
Implementation of Traffic and Access Control	3d2	M	M	M	M	M				M	M		
Implementation of Ingestion Pathway Decisions	3e1												
Implementation of Ingestion Pathway Decisions	3e2												
Implementation of Post-Plume Phase Relocation, Reentry, and Return Decisions	3f1												
Field Measurement and Analysis													
RESERVED	4a1												
Plume Phase Field Measurement and Analyses	4a2												
Plume Phase Field Measurement and Analyses	4a3												
Post Plume Phase Field Measurements and Sampling	4b1												
Laboratory Operations	4c1												
Emergency Notification and Public Info													
Activation of the Prompt Alert and Notification System	5a1											M	
RESERVED	5a2												
Activation of the Prompt Alert and Notification System	5a3			M	M	M	M				M		

### Diablo Canyon Power Plant

[illegible]



Table 3.1 - Summary of Exercise Evaluation (Continued. page 2/2)

<p style="text-align: center;">DATE: 2012-11-07 SITE: Diablo Canyon Power Plant, CA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated</p>			FMT Alpha	FMT Bravo	FMT Charlie	OEL	PSLHD	SLCUSD & BSFCS (Interview)	SLOEOC	PAC	State Parks (Field Ops Interview)	UDAC	CPW (Field Ops Interview)
Emergency Operations Management													
Mobilization	1a1	M	M	M			M		M	M		M	
Facilities	1b1												
Direction and Control	1c1						M		M	M		M	
Communications Equipment	1d1	M	M	M			M		M	M		M	
Equipment and Supplies to Support Operations	1e1	M	M	M			M	M	M	M	M	M	M
Protective Action Decision Making													
Emergency Worker Exposure Control	2a1								M			M	
Dose Assessment & PARs & PADs for the Emergency Event	2b1								M			M	
Dose Assessment & PARs & PADs for the Emergency Event	2b2								M				
PADs for the Protection of persons with disabilities and access/functional needs	2c1							M	M				
Radiological Assessment and Decision-making for the Ingestion Exposure Pathway	2d1												
Radiological Assessment & Decision-making Concerning Post-Plume Phase Relocation, Reentry, and Return	2e1												
Protective Action Implementation													
Implementation of Emergency Worker Exposure Control	3a1	M	M	M			M	M	M		M	M	M
Implementation of KI Decision for Institutionalized Individuals and the Public	3b1						M	M	M		M	M	M
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c1												
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c2							M					
Implementation of Traffic and Access Control	3d1						M		M		M		M
Implementation of Traffic and Access Control	3d2										M		M
Implementation of Ingestion Pathway Decisions	3e1												
Implementation of Ingestion Pathway Decisions	3e2												
Implementation of Post-Plume Phase Relocation, Reentry, and Return Decisions	3f1												
Field Measurement and Analysis													
RESERVED	4a1												
Plume Phase Field Measurement and Analyses	4a2											M	
Plume Phase Field Measurement and Analyses	4a3	P	P	M	M								
Post Plume Phase Field Measurements and Sampling	4b1												
Laboratory Operations	4c1												
Emergency Notification and Public Info													
Activation of the Prompt Alert and Notification System	5a1								M				
RESERVED	5a2												
Activation of the Prompt Alert and Notification System	5a3						M		M		M		
Activation of the Prompt Alert and Notification System	5a4												



**Unclassified**  
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Diablo Canyon Power Plant

Emergency Information and Instructions for the Public and the Media	5b1									M	M
Support Operations/Facilities											
Monitoring, Decontamination, and Registration of Evacuees	6a1										
Monitoring and Decontamination of Emergency Workers and their Equipment and Vehicles	6b1										
Temporary Care of Evacuees	6c1										
Transportation and Treatment of Contaminated Injured Individuals	6d1										

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## 3.3 Criteria Evaluation Summaries

### 3.3.1 California Jurisdictions

#### 3.3.1.1 Cal EMA Southern REOC

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. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

#### 3.3.1.2 CALTRANS (Field Operations Interview)

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

- a. MET: 1.e.1, 3.a.1, 3.b.1, 3.d.1, 3.d.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

#### 3.3.1.3 CHP Field Operations (Field Operations Interview)

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

- a. MET: 1.e.1, 3.a.1, 3.b.1, 3.d.1, 3.d.2, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

#### **3.3.1.4 State Parks (Field Operations Interview)**

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

- a. MET: 1.e.1, 3.a.1, 3.b.1, 3.d.1, 3.d.2, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: 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 City of Pismo Beach EOC**

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.b.1, 3.d.1, 3.d.2, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

##### **3.3.2.2 City of Pismo Beach Police, Fire & Public Works (Field Operations Interview)**

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

- a. MET: 1.e.1, 3.a.1, 3.b.1, 3.d.1, 3.d.2, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.3 County Fire Station #62**

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.a.1, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.4 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, 3.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.5 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, 2.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None



### **3.3.2.6 County Public Works 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.a.1, 3.b.1, 3.d.1, 3.d.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.7 County Sheriff (Field Operations Interview)**

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

- a. MET: 1.e.1, 3.a.1, 3.b.1, 3.d.1, 3.d.2, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.8 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. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.9 Off-site 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.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: 4.a.3.

### **3.3.2.10 Off-site 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.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 1.e.1.
- g. PRIOR ISSUES - UNRESOLVED: 4.a.3.

### **3.3.2.11 Off-site Field Monitoring Team Charlie**

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. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.12 Off-site Emergency Laboratory**

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

- a. MET: 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 4.a.3.

### **3.3.2.13 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.b.1, 3.d.1, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: 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 Coastal Unified School District & Bellevue Santa Fe Charter School (Interview)**

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

- a. MET: 1.e.1, 2.c.1, 3.a.1, 3.b.1, 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: 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 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.a.3, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.16 San Luis Obispo County 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, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

### **3.3.2.17 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.a.1, 2.b.1, 3.a.1, 3.b.1, 4.a.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 2.a.1.



### 3.3.2.18 County Public Works (Field Operations Interview)

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

- a. MET: 1.e.1, 3.a.1, 3.b.1, 3.d.1, 3.d.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: 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

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. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: No

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## SECTION 4: CONCLUSION

FEMA Region IX evaluated an offsite biennial Plume Phase Exercise on November 7, 2012, in the Plume Exposure Pathway EPZ around DCPD and conducted an out-of-sequence interview on November 8, 2012. The purpose of the drill was to assess the level of state and local emergency preparedness in response to a simulated radiological emergency. This drill was held in accordance with FEMA policies and guidance concerning the drill of state and local RERP 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 Regional Assistance Committee Chairperson and approved by the Regional Administrator.

There were no deficiencies and no ARCA were identified during this exercise for the state of California or San Luis Obispo County.

Based on the evaluation of the November 7, 2012 biennial exercise and subsequent out-of-sequence interviews, the offsite radiological emergency response plans for the state of California and the affected local jurisdictions site-specific to DCPD can be implemented, and are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public in the event of a radiological emergency at DCPD.

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

## APPENDIX A: IMPROVEMENT PLAN

<b>Issue Number: 19-10-4a3-P-2</b>		<b>Criterion: 4a3</b>
<b>ISSUE:</b> County procedures and usage in references to the Eberline ADP-1 exposure rate meter are inconsistent with the instrument and the measured units.		
<b>RECOMMENDATION:</b> Review and update all SOPs to ensure consistency with instruments and correct use of terminology.		
<b>CORRECTIVE ACTION DESCRIPTION:</b>		
<b>CAPABILITY:</b>	<b>PRIMARY RESPONSIBLE AGENCY:</b>	
<b>CAPABILITY ELEMENT:</b>	<b>START DATE:</b>	
<b>AGENCY POC:</b>	<b>ESTIMATED COMPLETION DATE:</b>	

<b>Issue Number: 19-10-4a3-P-4</b>		<b>Criterion: 4a3</b>
<b>ISSUE:</b> The FMTs use a default background count rate of 60 cpm when calculating the net count rate for each smear sample, rather than using the actual background count rate at a counting location in an area with elevated levels.		
<b>RECOMMENDATION:</b> SOP III.06 HP-3 Checklist 9 should be modified to require FMTs, when practical, to move to a low background area before counting smears, and when unable to, use the actual background count rate when calculating net counts.		
<b>CORRECTIVE ACTION DESCRIPTION:</b>		
<b>CAPABILITY:</b>	<b>PRIMARY RESPONSIBLE AGENCY:</b>	
<b>CAPABILITY ELEMENT:</b>	<b>START DATE:</b>	
<b>AGENCY POC:</b>	<b>ESTIMATED COMPLETION DATE:</b>	



## APPENDIX B: BEST PRACTICES

### 1. Communication

**Summary:** The assignment of Planning Section personnel in various rooms provided situational awareness that could be incorporated in the planning documents and disseminated in briefings.

**Description:** The Planning Section Chief assigned dedicated personnel in Operations and in the Command room to record current information and relay back to Plans in order to better prepare and plan for future activities (e.g., GIS map development).

### 2. Equipment

**Summary:** The use of current technology (smart phone camera) provided a valuable tool in capturing display screen information from Operations and Command that could be implemented in the Planning Section for up-to-date maps and planning documents.

**Description:** Use of a smart phone camera function improved communication between functional rooms by photographing continually changing information and relaying to other functional rooms.



## APPENDIX C: EXERCISE TIMELINE

Table 1 on the following page[s], indicates the times recorded for various activities and key decisions at each of the evaluated locations.

A disparity in time is normal, given the need for message transmission and decision-making at the various locales.

Table 1 - Exercise Timeline  
DATE: 2012-11-07, SITE: Diablo Canyon Power Plant, CA

Emergency Classification Level or Event	Time Utility Declared	CalEMA SREOC	PBEOC	CHADOC	COEDOC	PWDOC	JIC
Unusual Event	0827	0846	0847	0827	N/A	N/A	0830
Alert	0854	0920	N/A	0915	0914	0912	0856
Site Area Emergency	N/A	N/A	N/A	N/A	N/A	N/A	N/A
General Emergency	1155	1158	1203	1155	1201	1200	1159
Simulated Rad. Release Started	1154	1158	1203	1209	1210	1212	1159
Simulated Rad. Release Terminated	1420	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		0934	0948	0955	0930	0926	0957
Exercise Terminated		1426	1428	1408	1428	1427	1426
Declaration of Emergency: State		1158	N/A	N/A	N/A	N/A	1417
Declaration of Emergency: Local		N/A	1225	N/A	1200	N/A	N/A
Early Precautionary Actions: Schools, Parks, Beaches & Port		N/A	N/A	N/A	1018	N/A	1045
Early Precautionary Actions: Agriculture Advisory		N/A	N/A	N/A	N/A	N/A	1150
Early Precautionary Actions: State Beaches		N/A	N/A	N/A	N/A	N/A	1209
1st Protective Action Decision: Evacuate PAZ 1 & 2		1214	1208	1206	1208	N/A	1211
1st Siren Activation		1221	1218	1218	1218	1218	N/A
1st EAS Message		N/A	N/A	N/A	N/A	1221	N/A
2nd Protective Action Decision: PAZ 1 & 2 take KI		1303	1246	1240	N/A	N/A	1245
2nd Siren Activation		N/A	1250	1250	1250	N/A	N/A
2nd EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
3rd Protective Action Decision: Shelter PAZ 3		N/A	1305	1308	N/A	N/A	1306
3rd Siren Activation		N/A	1317	1317	1317	N/A	N/A
3rd EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
KI Administration Decision: Emergency Workers		N/A	N/A	N/A	1240	1238	N/A
KI Administration Decision: General Public		N/A	N/A	N/A	N/A	1242	1245

**Table 1 - Exercise Timeline**  
**DATE: 2012-11-07, SITE: Diablo Canyon Power Plant, CA**

Emergency Classification Level or Event	Time Utility Declared	PSLHD	SLOEOC	UDAC
Unusual Event	0827	0847	0837	0837
Alert	0854	0910	0857	0859
Site Area Emergency	N/A	N/A	N/A	N/A
General Emergency	1155	1203	1204	1158
Simulated Rad. Release Started	1154	1209	1204	1154
Simulated Rad. Release Terminated	1420	N/A	N/A	1420
Facility Declared Operational		0905	0953	0956
Exercise Terminated		1428	1427	1427
Declaration of Emergency: State		N/A	1411	N/A
Declaration of Emergency: Local		N/A	1157	N/A
Early Precautionary Actions: Schools, Parks, Beaches & Port		1035	1015	N/A
Early Precautionary Actions: Agriculture Advisory		N/A	N/A	N/A
Early Precautionary Actions: State Beaches		N/A	N/A	N/A
1st Protective Action Decision: Evacuate PAZ 1 & 2		1209	1206	N/A
1st Siren Activation		1218	1218	N/A
1st EAS Message		N/A	1221	N/A
2nd Protective Action Decision: PAZ 1 & 2 take KI		1240	1238	N/A
2nd Siren Activation		1250	1250	N/A
2nd EAS Message		N/A	1251	N/A
3rd Protective Action Decision: Shelter PAZ 3		1308	1305	N/A
3rd Siren Activation		1317	1317	N/A
3rd EAS Message		N/A	1318	N/A
KI Administration Decision: Emergency Workers		1250	1229	N/A
KI Administration Decision: General Public		1250	1238	N/A



## APPENDIX D: EXERCISE EVALUATORS AND TEAM LEADERS

DATE: 2012-11-07, SITE: Diablo Canyon Power Plant, CA

LOCATION	EVALUATOR	AGENCY
Cal EMA Southern REOC	*Paul Anderson	FEMA RIX
CALTRANS (Field Operations Interview)	Johanna Berkey *David Jeremy	FEMA RX FEMA HQ
CHP Field Operations (Field Operations Interview)	*Kim Wood	ICFI
State Parks (Field Operations Interview)	*Deborah Blunt Kim Wood	ICFI ICFI
City of Pismo Beach EOC	William Maier *Kenneth Wierman	NRC FEMA HQ
City of Pismo Beach Police, Fire & Public Works (Field Operations Interview)	*Thomas Essig Robert Gantt	ICFI ICFI
County Fire Station #62	*Carl Wentzell	ICFI
County Health Agency Department Operations Center	*Robert Gantt	ICFI
County Office of Education Department Operations Center	*Roy Smith	ICFI
County Public Works Department Operations Center	*Brad DeKorte Jesse King	FEMA RVI
County Sheriff (Field Operations Interview)	*Henry Christiansen	ICFI
Joint Information Center	Bill Bischof *Henry Christiansen	FEMA RVI ICFI
Off-site Field Monitoring Team Alpha	*Marcy Campbell	ICFI
Off-site Field Monitoring Team Bravo	*Thomas Essig	ICFI
Off-site Field Monitoring Team Charlie	*Deborah Blunt	ICFI
Off-site Emergency Laboratory	*Marcy Campbell	ICFI
Port San Luis Harbor District	*David White	ICFI
San Luis Coastal Unified School District & Bellevue Santa Fe Charter School (Interview)	*Kim Wood	ICFI
San Luis Obispo County Emergency Operations Center	*Gary Bolender James Greer LaShawn Halsey Lisa Hamilton Todd Smith	ICFI ICFI FEMA HQ FEMA HQ USDA/APHIS
San Luis Obispo County Phone Assistance Center	Johanna Berkey	FEMA RX
Unified Dose Assessment Center	*Joseph Keller Daryl Thome	ICFI ICFI
County Public Works (Field Operations Interview)	*Brad DeKorte Jesse King	FEMA RVI
Emergency Alert System Radio Station	*David Jeremy	FEMA HQ
* Team Leader		



## APPENDIX E: ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
ARCA	Area Requiring Corrective Action
CalEMA	California Emergency Management Agency
Caltrans	California Department of Transportation
CDPH	California Department of Public Health
CHADOC	County Public Agency Department Operations Center
CHP	California Highway patrol
COE	San Luis Obispo County Office of Education
COEDOC	County Office of Education Department Operations Center
County OES	San Luis Obispo County Office of Emergency Services
CSWC	California State Warning Center
DCPP	Diablo Canyon Power Plant
DOC	Department Operations Center
EAS	Emergency Alert System
EOC	San Luis Obispo County Emergency Operations Center
EOF	PG&E Emergency Operations Facility
EOP	Extent of Play Agreement
EPZ	Emergency Planning Zone
EWEC	Emergency Worker Exposure Control
FEMA	Federal Emergency Management Agency
FMT	Field Monitoring Team
JIC	Joint Information Center
KI	Potassium Iodide
NRC	Federal Nuclear Regulatory Commission
PAD	Protective Action Decision
PAR	Protective Action Recommendation
PIO	Public Information Officer
PWDOC	County Public Works Department Operations Center
RACES	Radio Amateur Civil Emergency Services
REOC	CalEMA Region Emergency Operation Center
SDAC	State Dose Assessment Center
State NPP Plan	State of California Nuclear Power Plant Emergency Response Plan
UDAC	Unified Dose Assessment Center

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## APPENDIX F: EXTENT-OF-PLAY AGREEMENT

The Extent-of-Play (EOP) agreement for the Diablo Canyon Power Plant (DCPP) Plume Phase Exercise held November 7, 2012, was submitted to Federal Emergency Management Agency (FEMA) by the State of California and San Luis Obispo County on August 9, 2012.

FEMA Region IX, Technological Hazards Branch approved the EOP agreement on September 27, 2012.

A copy of the EOP is maintained by FEMA Region IX and the state of California, and is herein incorporated by reference. The EOP is available for inspection by contacting FEMA Region IX, National Preparedness Division, Technological Hazards Branch or California Emergency Management Agency, Preparedness Division, Radiological Preparedness Unit.

## APPENDIX F: EXTENT-OF-PLAY AGREEMENT

The Extent-of-Play (EOP) agreement for the Diablo Canyon Power Plant (DCPP) Plant Phase Extension held November 7, 2012, was submitted to Federal Emergency Management Agency (FEMA) by the State of California and San Luis Obispo County on August 9, 2012.

FEMA Region IX, Technical Planning Branch approved the EOP agreement on September 27, 2012.

A copy of the EOP is maintained by FEMA Region IX and the state of California, and is being incorporated by reference. The EOP is available for inspection by contacting FEMA Region IX, National Preparedness Division, Technical Planning Branch or California Emergency Management Agency, Preparedness Division, Radiological Preparedness Unit.

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