



Diablo Canyon Power Plant

After Action Report/ Improvement Plan

Exercise Date - May 21, 2014

Radiological Emergency Preparedness (REP) Program



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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 Division, Technological Hazards Branch, evaluated the Plume Phase Exercise (PPX) for the Diablo Canyon Power Plant (DCPP) conducted on May 21, 2014. This report contains the results of this evaluation.

The exercise is a part of the Radiological Emergency Preparedness (REP) Program overseen by the Department of Homeland Security, FEMA, Technological Hazards Branch. This biennial exercise allowed FEMA the opportunity to assess the ability of local and state Offsite Emergency Response Organizations (OROs) to implement plans and procedures for the protection of the health and safety of the public in the event of an incident at Diablo Canyon Power Plant having a potential of offsite impacts.

San Luis Obispo (SLO) County Offices of Emergency Services (OES), state of California and staff from Pacific Gas and Electric (PG&E) designed and managed the scenario and Extent-of-Play (EOP). The scenario and the EOP were reviewed by FEMA Region IX and were approved for use by the Technological Hazards Branch Chief/Radiological Assistance Committee (RAC) Chair prior to use in this exercise.

There were no deficiencies, no Areas Requiring Corrective Action (ARCA's), nor planning issues identified during this exercise.

In Summary: The OROs demonstrated that plans and procedures can be adequately implemented and that there is 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

Exercise Date

May 21, 2014

Program

Department of Homeland Security/FEMA Radiological Emergency Preparedness Program

Scenario Type

Radiological Emergency

1.2 Exercise Planning Team Leadership

Richard Grundstrom

Regional Assistance Committee (RAC) Chair

FEMA Region IX

Technological Hazards Branch Chief

1111 Broadway, Suite 1200

Oakland, California, 94607

510-627-7240

Richard.Grundstrom@fema.dhs.gov

Alberto Sifuentes

Site-Specialist

FEMA Region IX

1111 Broadway

Suite 1200
Oakland, California, 94607
510-627-7108
Alberto.Sifuentes@fema.dhs.gov

Michael Warren
Senior Emergency Services Coordinator
California Governor's Office of Emergency Services
3650 Schriever Ave.
Mather, California, 95655
916-845-8772
Michael.Warren@calema.ca.gov

Kelly Van Buren
Emergency Services Coordinator
San Luis Obispo County Office of Emergency Services
County Government Center
Room D430
San Luis Obispo, California, 93408
805-781-1955
kvanburen@co.slo.ca.us

Tracey Vardas
Emergency Planning Coordinator
Pacific Gas & Electric
Diablo Canyon Power Plant
Avila Beach, California, 93424
805-545-6274
tlv7@pge.com

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 Department of Forestry and Fire Protection
- California Highway Patrol
- California Office of Emergency Services
- California Men's Colony

Local Jurisdictions and Organizations

- American Red Cross
- City of Pismo Beach
- County of Santa Barbara
- County of San Luis Obispo
- Monarch Grove Elementary
- Port San Luis Harbor District
- Radio Amateur Civil Emergency Services
- Regional Transit Authority
- San Luis Coastal Unified School District

Private Organizations

- KKJL 1400 AM Radio Station
- Pacific Gas and Electric Diablo Canyon Power Plant
- San Luis Ambulance

Federal Jurisdictions

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

SECTION 2: EXERCISE DESIGN SUMMARY

2.1 Exercise Purpose and Design

The Federal Emergency Management Agency Region IX evaluated the plume phase exercise to assess the capabilities of the OROs implementing their radiological emergency response plans and procedures to protect the public health and safety during an emergency at DCCP. The EOP included hostile action based events and the possibility of a release of radioactive material.

The purpose of this exercise is to provide an opportunity for the OROs to demonstrate they can implement their plans and procedures to protect the health and safety of the public, and to provide an opportunity for FEMA to evaluate the effectiveness of their plans and procedures in accordance with Title 44 C.F.R. § 350.

2.2 Exercise Objectives, Capabilities and Activities

Plume Pathway Exercises are conducted to provide the opportunity to evaluate, and assess emergency plans, and associated implementing procedures; and facilities, and equipment which would be used in an emergency.

This exercise evaluated the OROs ability to assess and response to emergency conditions and coordinate efforts with other agencies for the protection of the health and safety of the public. The following criteria contained in FEMA Radiological Emergency Preparedness (REP) Manual, June 2013, were demonstrated during the exercise and out of sequence events.

The objectives of this exercise are as follows:

Criterion 1.a.1: OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner. (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)

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, 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 onsite and offsite 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)

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers 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. OROs maintain appropriate record-keeping of the administration of KI to emergency workers. (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.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)

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)

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 offsite 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)

2.3 Scenario Summary

The 2014 DCPD plume phase exercise involved both onsite and offsite response to a hostile action based scenario at DCPD.

This section contains a summary of the simulated sequence of events used as the basis for invoking emergency response actions by the OROs during the DCPD biennial exercise on May 21, 2014, submitted to FEMA by the state of California and DCPD.

Results of a technical review of the scenario, completed on April 03, 2014, indicated that the scenario was adequate to support demonstration of DHS/FEMA requirements, as well as selected criteria provided in the state of California's March 24, 2014, Extent-of-Play (EOP) submission.

A summary of the DCPD scenario is as follows (No release detectable offsite associated with this scenario):

It is, hypothetically, Sunday with minimal plant staffing. Winds are from 210 degrees at 14 miles per hour (mph), and wind gust are 22 mph.

0700: Unit 1 Outage begins, and the containment equipment hatch is open.

0800: The exercise begins onsite.

0809: One adversary detonates explosives near the outer Protective Area fence causing a breach of the Protective Area fence, and rocket-propelled grenades strike the east Ballistic-Resistant Enclosure (guard tower) and the inner Protective Area fence. Shortly thereafter, explosives detonate in the switchyard causing a Loss of Offsite Power.

Anticipate: via 911, the Diablo Canyon Watch Commander notifies the San Luis Obispo County Sheriff's Watch Commander that a Hostile Action is occurring onsite, inside the Protected Area.

Conditions exist for the declaration of an Emergency Classification Level (ECL) of Site Area Emergency based on a hostile action occurring in the Protected Area.

Expected Licensee Protective Action Recommendation (PAR): Shelter Protective Action Zones (PAZ) #1 & #2.

(Note: licensee has 15 minutes to classify and another 15 minutes to notify ORO)

0824: Security Officer in containment reports that an adversary's body is slumped over piping upstream of Residual Heat Removal (RHR) System valve RHR-1-8701. Said adversary is wearing a backpack with explosives and a timer set to detonate at 1248.

0828: All six adversaries have been neutralized.

0930: An out-of-sequence field monitoring team demonstration.

1248: The explosives detonate, breaching the Residual Heat Removal system between valves RHR-1-8701 and RHR-1-8702. If valve RHR-1-8702 has not been closed, then a very small release outside of containment will occur, but no activity will be detectable offsite and an ECL of General Emergency should be declared due to hostile action resulting in the loss of physical control of the facility and plant personnel are unable to operate equipment required to maintain safety functions.

Expected Licensee PAR: Evacuate PAZs #1 & #2 and the ocean out to 5 nautical miles (5.8 statute miles)

(Note: If valve RHR-1-8702 has been closed, then the safety functions will not be lost and a General Emergency should NOT be declared.)

1350: Approximate time for exercise termination.

1400: Post-exercise out-of-sequence Unified Dose Assessment Center demonstration.

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 May 21, 2014, biennial plume phase exercise, out-of-sequence interviews, and demonstrations which were conducted to test the offsite emergency response capabilities of State and local government agencies in the EPZ surrounding DCP.

Each jurisdiction and functional entity was evaluated on its demonstration of selected criteria as indicated in the Extent-of-Play Agreement and as outlined in the FEMA-Radiological Emergency Preparedness (REP) Program Manual, June 2013.

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.

Demonstration criterion status is indicated by the use of the following letters:

A – (AREA REQUIRING CORRECTIVE ACTION or ARCA): The jurisdiction or functional entity performed activities under the Demonstration Criterion, but had one or more ARCAs assessed under the criterion in the current exercise and/or one or more ARCAs assessed during a previous exercise which it did not resolve in the current exercise.

D – (DEFICIENCY): The jurisdiction or functional entity performed activities under the Demonstration Criterion, but had one or more Deficiencies assessed under the criterion.

M – (MET): The jurisdiction or functional entity performed all activities under the Demonstration Criterion to the level required in the Extent-of-Play Agreement, with no Deficiencies or ARCAs assessed under that criterion in the current exercise and no unresolved prior ARCAs.

N – (NOT DEMONSTRATED): For a justifiable reason, the jurisdiction or functional entity did

not perform activities under the Demonstration Criterion as specified in the Extent-of-Play Agreement or at the minimal evaluation frequency required as per NUREG-0654/FEMA-REP-1 Criteria N.1.b and N.1.d.

N/A – (NOT APPLICABLE): The criterion does not apply to the jurisdiction.

The types of issues are defined as:

Deficiency: is defined in the FEMA REP Program Manual, June 2013 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.”

ARCA: is defined in the FEMA REP Program Manual, June 2013 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.”

Plan Issue: is defined in the FEMA REP Program Manual, June 2013 as “...an observed or identified inadequacy in the ORO’s emergency plan and/or procedures, rather than in the ORO’s performance. Plan Issues are required to be corrected through the revision of the appropriate plans/procedures during the next annual plan review and update, submitted for FEMA review, and reported in the State’s Annual Letter of Certification.”

Prior Issue – Resolved: Issues assessed during previous exercises that were resolved in this exercise, and the corrective actions demonstrated by the ORO.

Prior Issue – Unresolved: 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 by the ORO.

FEMA has developed a standardized system 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 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 and two-digit number corresponding to the criteria in the FEMA REP Exercise Evaluation Methodology.
- Issue Classification Identifier – (D = Deficiency, A = ARCA, P = Issue)
- 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 (1/2 pages)

		CalOES SREOC	CALTRANS (Out-of-Sequence)	CHP	PBEOC	PBPD (Out-of-Sequence)	CHADOC	PWDOC	County Sheriff (Out-of-Sequence)	EAS Radio Station (Out-of-Sequence)	JIC	FMT Alpha	FMT Bravo	FMT Charlie
DATE: 2014-05-21 SITE: Diablo Canyon Power Plant, CA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated														
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			
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			
Protective Action Decision Making														
EW Exposure Control Decision Making	2a1													
Protective Action Recommendations	2b1													
Protective Action Decisions	2b2													
PADs for Disabled/Functional Needs	2c1													
Ingestion Pathway Decisions	2d1													
Relocation, Reentry, Return Decisions	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									
Imp. of Protective Actions for persons with disabilities and access/functional needs	3c1													
Imp. of Protective Actions for Schools	3c2													
Implementation of Traffic and Access Control	3d1		M	M	M	M		M	M					
Impediments to Evacuation	3d2	M												
Implementation of Ingestion Pathway Decisions	3e1													
Ingestion Strategies and Information	3e2													
Imp. of Relocation, Reentry, and Return Decisions	3f1													
Field Measurement and Analysis														
RESERVED	4a1													
Field Team Management	4a2													
Field Team Operations	4a3											M	M	M
Field Team Sampling	4b1												M	
Laboratory Operations	4c1													
Emergency Notification and Public Info														
Initial Alert & Notification	5a1									M				
RESERVED	5a2													
Backup Alert & Notification	5a3													
Exception Area Alerting	5a4													
Emergency Information and Instructions for the Public and the Media	5b1									M	M			
Support Operations/Facilities														

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

DATE: 2014-05-21 SITE: Diablo Canyon Power Plant, CA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		PSLHD	MGES&SLCUSD (Out-of-Sequence)	SLOEOC	PAC	State Parks (Out-of-Sequence)	UDAC	CPW (Out-of-Sequence)	PBFDS #63 (Out-of-Sequence)	PBPWD (Out-of-Sequence)	CFS #15 (Out-of-Sequence)	CSWC	ICP
Emergency Operations Management													
Mobilization	1a1	M		M		M	M		M			M	M
Facilities	1b1			M								M	
Direction and Control	1c1	M		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													
EW Exposure Control Decision Making	2a1			M			M						
Protective Action Recommendations	2b1						M						
Protective Action Decisions	2b2			M									M
PADs for Disabled/Functional Needs	2c1			M	M								
Ingestion Pathway Decisions	2d1												
Relocation, Reentry, Return Decisions	2e1												
Protective Action Implementation													
Implementation of Emergency Worker Exposure Control	3a1	M	M			M		M	M	M	M		M
Implementation of KI Decision for Institutionalized Individuals and the Public	3b1		M	M									
Imp. of Protective Actions for persons with disabilities and access/functional needs	3c1												
Imp. of Protective Actions for Schools	3c2		M										
Implementation of Traffic and Access Control	3d1	M		M		M		M	M	M	M		
Impediments to Evacuation	3d2												
Implementation of Ingestion Pathway Decisions	3e1												
Ingestion Strategies and Information	3e2												
Imp. of Relocation, Reentry, and Return Decisions	3f1												
Field Measurement and Analysis													
RESERVED	4a1												
Field Team Management	4a2						M						
Field Team Operations	4a3												
Field Team Sampling	4b1												
Laboratory Operations	4c1												
Emergency Notification and Public Info													
Initial Alert & Notification	5a1			M									
RESERVED	5a2												
Backup Alert & Notification	5a3												
Exception Area Alerting	5a4												
Emergency Information and Instructions for the Public and the Media	5b1			M	M								M
Support Operations/Facilities													

3.3 Criteria Evaluation Summaries

3.3.1 California Jurisdictions

3.3.1.1 Cal OES 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 (Out-of-Sequence Interview)

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. 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 (Out-of-Sequence Interview)

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. 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 (Out-of-Sequence Interview)

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. 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

3.3.1.5 California 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. 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.
- 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 Dept. (Out-of-Sequence Interview)

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

- a. MET: 3.a.1, 3.d.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

3.3.2.3 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. 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 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, 3.a.1, 3.d.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 Sheriff (Out-of-Sequence Interview)

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

- a. MET: 1.e.1, 3.a.1, 3.d.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 Joint Information 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, 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

3.3.2.7 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.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

3.3.2.8 Off-site Field Monitoring Team Bravo

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

- a. MET: 3.a.1, 4.a.3, 4.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 Charlie

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

- a. MET: 1.d.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

3.3.2.10 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. 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

3.3.2.11 Monarch Grove Elementary School / San Luis Coastal Unified School District (Out-of-Sequence 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.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

3.3.2.12 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.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.b.1, 3.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: None

3.3.2.13 San Luis Obispo County Phone Assistance Center

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

- a. MET: 1.c.1, 1.d.1, 1.e.1, 2.c.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

3.3.2.14 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, 4.a.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 County Public Works (Out-of-Sequence Interview)

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

- a. MET: 1.e.1, 3.a.1, 3.d.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 City of Pismo Beach Fire Dept. Station #63 (Out-of-Sequence Interview)

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. 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 City of Pismo Beach Public Works Department (Out-of-Sequence Interview)

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

- a. MET: 1.d.1, 3.a.1, 3.d.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

3.3.2.18 County Fire Station #15 (Out-of-Sequence Interview)

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

- a. MET: 1.e.1, 3.a.1, 3.d.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

3.3.2.19 Incident Command Post

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.2, 3.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: None

3.3.3 Private Organizations

3.3.3.1 Emergency Alert System Radio Station (Out-of-Sequence Interview)

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: None

SECTION 4: CONCLUSION

FEMA Region IX evaluated an offsite biennial Plume Phase Exercise on May 21, 2014, in the Plume Exposure Pathway EPZ around DCPP, and conducted an out-of-sequence interviews on May 22, 2014. The purpose of the exercise was to assess the level of State and local emergency preparedness in response to a simulated radiological incident. This exercise was held in accordance with FEMA policies and guidance concerning the exercise of State and local 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 Regional Assistance Committee Chair and approved by the Regional Administrator.

There were no Deficiencies, ARCAs or planning issues were identified during this exercise for the state of California or the local OROs.

Based on the evaluation of the May 21, 2014 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 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, Title 44 C.F.R. § 350, approval of the offsite radiological emergency response plans and preparedness for the state of California site-specific to DCPP will remain in effect.

APPENDIX A: EXERCISE TIMELINE

Table 1 - Exercise Timeline

DATE: 2014-05-21, SITE: Diablo Canyon Power Plant, CA

Emergency Classification Level or Event	Time Utility Declared	CalOES SREOC	PBEOC	CHADOC	PWDOC	JIC	FMT Alpha
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Site Area Emergency	0815	0835	0840	0912	0919	N/A	0815
General Emergency	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Simulated Rad. Release Started	N/A	N/A	N/A	N/A	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		0845	0917	0931	0910	0918	0955
Declaration of Local Emergency		1326	N/A	N/A	N/A	1130	N/A
Exercise Terminated		1300	N/A	N/A	1258	1258	N/A
Early Precautionary Actions: Established a 5 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		0956	N/A	N/A	N/A	1006	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	N/A	N/A	N/A
1st EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
2nd Protective Action Decision: Evacuate PAZ 1 and 2		1209	1210	1205	N/A	1208	N/A
2nd Siren Activation		1212	N/A	1215	1205	1208	N/A
2nd EAS Message		1215	N/A	N/A	N/A	1208	N/A

Table 1 - Exercise Timeline
DATE: 2014-05-21, SITE: Diablo Canyon Power Plant, CA

Emergency Classification Level or Event	Time Utility Declared	FMT Bravo	FMT Charlie	PSLHD	SLOEOC	UDAC	CSWC
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Site Area Emergency	0815	0815	0815	0840	0818	0948	0824
General Emergency	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Simulated Rad. Release Started	N/A	N/A	N/A	N/A	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		0955	0955	N/A	0924	0928	N/A
Declaration of Local Emergency		N/A	N/A	N/A	1120	N/A	N/A
Exercise Terminated		N/A	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		N/A	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

Table 1 - Exercise Timeline
 DATE: 2014-05-21, SITE: Diablo Canyon
 Power Plant, CA

Emergency Classification Level or Event	Time Utility Declared	ICP
Unusual Event	N/A	N/A
Alert	N/A	N/A
Site Area Emergency	0815	0850
General Emergency	N/A	N/A
Simulated Rad. Release Started	N/A	N/A
Simulated Rad. Release Terminated	N/A	N/A
Facility Declared Operational		0846
Declaration of Local Emergency		N/A
Exercise Terminated		N/A
Early Precautionary Actions: Established a 5 Nautical Mile Radius and a No Fly Zone		N/A
Early Precautionary Actions: Closed Montana De Oro State Park and the North Beaches		N/A
1st Protective Action Decision:		N/A
1st Siren Activation		N/A
1st EAS Message		N/A
2nd Protective Action Decision: Evacuate PAZ 1 and 2		N/A
2nd Siren Activation		N/A
2nd EAS Message		N/A

APPENDIX B: EXERCISE EVALUATORS AND *TEAM LEADERS

LOCATION	EVALUATOR	AGENCY
Cal EMA Southern REOC	*Paul Anderson	FEMA RIX
California Department of Transportation "Caltrans" (Out-of-Sequence Interview)	*Paul Ward	FEMA HQ
CHP Field Operations (Out-of-Sequence Interview)	*Terry Blackmon	ICFI
State Parks (Out-of-Sequence Interview)	James Greer *William Maier	ICFI NRC
California State Warning Center	Elena Joyner	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)	Brad DeKorte *Todd Smith	FEMA RVI USDA/APHIS
County Health Agency Department Operations Center	*Jesse King	FEMA REPP
County Public Works Department Operations Center	*Scott Flowerday Elsa Lopez	FEMA RVI FEMA RVI
County Sheriff (Out-of-Sequence Interview)	Gary Bolender *Laurel Ryan	ICFI FEMA RIX
Joint Information Center	Henry Christiansen *Kelly Hudson	ICFI FEMA RIX
Off-site Field Monitoring Team Alpha	Dennis Wilford	ICFI
Off-site Field Monitoring Team Bravo	*Johanna Berkey	FEMA RIX
Off-site Field Monitoring Team Charlie	Michael Howe	FEMA HQ
Port San Luis Harbor District	James Greer *David Jeremy	ICFI FEMA HQ
Monarch Grove Elementary School / San Luis Coastal Unified School District (Out-of-Sequence Interview)	Nan Calhoun *Michael Howe	FEMA RVI FEMA HQ
San Luis Obispo County Emergency Operations Center	Terry Blackmon LaShawn Halsey William Maier Roy Smith *Paul Ward Erica Houghton	ICFI FEMA HQ NRC ICFI FEMA HQ ICFI
San Luis Obispo County Phone Assistance Center	David Petta	ICFI
Unified Dose Assessment Center	*Nan Calhoun Daryl Thome	FEMA RVI ICFI
County Public Works (Out-of-Sequence Interview)	*Scott Flowerday Elsa Lopez	FEMA RVI FEMA RVI
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)	Brad DeKorte *Todd Smith	FEMA RVI USDA/APHIS
County Fire Station #15 (Out-of-Sequence Interview)	*John Woytak	FEMA RIX
Incident Command Post	Gary Bolender *Laurel Ryan	ICFI FEMA RIX
Emergency Alert System Radio Station (Out-of-Sequence Interview)	*David Jeremy	FEMA HQ

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