Pacific Gas and Electric Company

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November 8, 2002

PG&E Letter DCL-02-130

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Docket No. 50-275, OL-DPR-80
Docket No. 50-323, OL-DPR-82
Diablo Canyon Units 1 and 2
Emergency Plan Implementing Procedure Update

Dear Commissioners and Staff:

In accordance with Section V, "Implementing Procedures," of 10 CFR 50, Appendix E, enclosed is an update to the emergency plan (EP) implementing procedures for Diablo Canyon Power Plant, Units 1 and 2.

As provided under 10 CFR 50.54(q), the changes have been made without prior NRC approval since they do not decrease the effectiveness of the EP. The EP, as changed, continues to meet the standards of 10 CFR 50.47(b) and 10 CFR 50, Appendix E.

This update does not contain privacy/proprietary information.

If there are any questions regarding this update, please contact Mr. Mark Lemke of my staff at (805) 545-4787.

Sincerely,

Grant C. Gillies
Director, Site Services

baf/1345
Enclosures
cc: David L. Proulx
Girija S. Shukla
cc/enc: Ellis W. Merschoff (2)

A045

LOCATION OF PRIVACY/PROPRIETARY INFORMATION IN EMERGENCY PLAN IMPLEMENTING PROCEDURES FOR DIABLO CANYON POWER PLANT, UNITS 1 AND 2

Procedure Number	Privacy/ Proprietary Information	Title/Location of Privacy/Proprietary Information
EP EF-2 Rev. 27	No	Operational Support Center
EP RB-10 Rev. 9	No	Protective Action Recommendations

DIABLO CANYON POWER PLANT EMERGENCY PLAN IMPLEMENTING PROCEDURES

Table of Contents - Emergency Plan Implementing Procedures
Volume 1A (OM10.ID3 only), Volume 1B (OM10.DC1 only), and Volume 3B

*** Procedure included in this submittal**

TITLE: Protective Action Recommendations

1 AND 2

10/11/02
EFFECTIVE DATE

PROCEDURE CLASSIFICATION: QUALITY RELATED

1. SCOPE

1.1 This procedure provides guidance for providing protective action recommendations (PARs) for the public within the twelve protective action zones of San Luis Obispo County during a radiological emergency at Diablo Canyon.

1.2 This procedure does not include methodologies for performing dose assessment or analyzing plant conditions.

1.3 This procedure does not provide protective action recommendation guidance for the 50 mile ingestion pathway zone (IPZ). This is the responsibility of San Luis Obispo County and California Department of Health Services.

2. DISCUSSION

Following the declaration of an emergency at Diablo Canyon, emergency response personnel evaluate the power plant for any radiological release. This evaluation is used to assess the potential for radiological exposure to the public (known as dose assessment).

Dose assessment provides the basis for providing public protective action recommendations (PARs) to San Luis Obispo County emergency operations center (EOC) officials.

The San Luis Obispo County EOC officials consider PARs and other conditions such as road or weather conditions to make protective action decisions (PADs) for the safety of the public.

3. DEFINITIONS

3.1 Controlled Area - The area between the Protected Area and the Site Boundary.

3.2 Evacuation - The urgent removal of people from an area to avoid or reduce high-level, short-term exposure, usually from a plume or from deposited activity.

3.3 Members of the Public - Individuals outside of the Site Boundary.

3.4 Protective Action Recommendation (PAR) - A recommendation to protect members of the public or emergency workers from unwarranted radiation exposure resulting from an accident at DCPP.

3.5 Protective Action Decision (PAD) – Decision made by San Luis Obispo County EOC officials, based on PARs and other conditions, for members of the public to either evacuate or shelter in place.

3.6 Protective Action Zone – A designated area where protective actions may be required.

3.7 Restricted Area - The Protected Area of the plant associated within the power block. The Restricted Area does not include the Intake Area.

4. RESPONSIBILITIES

4.1 Interim Site Emergency Coordinator (ISEC) – approval of PARs until relieved by the Site Emergency Coordinator or the Recovery Manager.

4.2 Site Emergency Coordinator (SEC) – approval of PARs upon relieving the ISEC, until relieved by the Recovery Manager.

4.3 Recovery Manager (RM) – approval of PARs upon relieving the ISEC or the SEC.

4.4 Emergency Evaluation Coordinator - control room offsite dose projections and PAR determination until relieved by the EOF Radiological Manager.

4.5 Emergency Liaison Coordinator - DCPP emergency notifications and obtaining Interim Site Emergency Coordinator approval until relieved by the TSC Liaison Advisor or the Agency Liaison at the EOF.

4.6 Liaison Advisor - TSC communication of approved PARs to San Luis Obispo County, the California Office of Emergency Services, and the NRC Operations Center until relieved by the Agency Liaison at the EOF.

4.7 Radiological Manager - off-site dose projections and PAR development, upon relieving the Control Room Emergency Evaluation Coordinator.

4.8 Agency Liaison – communication of PAR information to the SLO County EOC, California Office of Emergency Services, and the NRC Operations Center.

5. INSTRUCTIONS

5.1 Offsite Dose Assessment

5.1.1 Offsite dose assessment information will be provided by personnel performing calculations primarily by use of computer dose assessment programs or manually in accordance with EP RB-11.

5.2 Protective Action Recommendation

5.2.1 If a General Emergency is declared, as a minimum, the PAR shall be to evacuate PAZs 1 and 2.

5.2.2 Once dose assessment data is available, protective action recommendations (PARs) shall be approved within 15 minutes.

5.2.3 Protective action recommendations are based on criteria provided by EPA 400 Protective Action Guides (PAGs).

a. If the 3 hour projected dose to a Protective Action Zone (PAZ) is < 1000 mrem TEDE and < 5000 mrem thyroid CDE, no protective action recommendation should be provided for the public within that PAZ.

b. When the 3 hour projected dose to a PAZ is ≥ 1000 mrem TEDE or $\geq$ 5000 mrem thyroid CDE, recommend evacuation for the public from that PAZ.

5.2.4 New PARs shall be made whenever:

a. Projected off-site dose increases significantly, or exceeds the PAG in a new PAZ.

b. Wind direction shifts to a new sector during a General Emergency.

5.3 Approval of Protective Action Recommendations

5.3.1 Prior to County and State notification of PARs, the DCPP recommendation shall be approved by the ISEC, SEC, or the Recovery Manager.

5.4 Notification of Protective Action Recommendation

5.4.1 Notification of PARs shall be performed in accordance with EP G-3.

5.4.2 Notification of initial and new PARs shall be communicated to San Luis Obispo County and California State emergency services personnel within 15 minutes.

5.4.3 Follow up PAR notifications, when the recommendation has not changed, should be made approximately every 45 minutes.

6. RECORDS

None

7. APPENDICES

7.1 Sheltering Effectiveness

7.2 Evacuation Time Estimates

8. REFERENCES

8.1 EPA 400-R-92-001, May 1992"Manual of Protective Action Guides and Protective Actions for Nuclear Incidents," U.S.

8.2 EP G-3, "Notification of Offsite Agencies and Emergency Response Organization Personnel.

8.3 September 2002 "Evacuation Time Assessment for Transient and Permanent Population from Various Areas Within the Plume Exposure Pathway Emergency Planning Zone" DCPP 2002 Update.

APPENDIX 7.1

SHELTERING EFFECTIVENESS

	Structure or Location	Shielding Factor[a] Average	Range
a.	Outside	1.0	--
b.	Vehicles	1.0	--
c.	Wood frame house (no basement)[b]	0.9	--
d.	Basement of wood house	0.6	0.1 to 0.7[c]
e.	Masonry house (no basement)	0.6	0.4 to 0.7[c]
f.	Basement of masonry house	0.4	0.1 to 0.5[c]
g.	Large office or industrial building	0.2	0.1 to 0.3[c,d]

NOTES:

(a) The ratio of the interior dose to the exterior dose.

(b) A wood frame house with brick or stone veneer is approximately equivalent to a masonry house for shielding purposes.

(c) This range is mainly due to different wall materials and different geometries.

(d) The reduction factor depends on where the personnel are located with the building (e.g., the basement or an inside room).

Reference: "Reactor Safety Study," Appendix VI, WASH-1400, October 1975.

APPENDIX 7.2

EVACUATION TIME ESTIMATES

Estimated Peak Populations and Evacuation Times by PAZ				
Protective Action Zone		Population	Cumulative Evacuation Time (Hours)	
			Normal Weather	Adverse Weather
1	2-mile boundary	184	2.50	2.75
2	6-mile boundary	311	2.50	2.75
3	Avila Beach, Squire Canyon, See Canyon, San Luis Bay	4425	2.75	3.25
4	Los Osos Valley, Prefumo Canyon	1628	2.75	3.25
5	Baywood, Los Osos	15423	11.5	13.75
6	City of Pismo Beach	15311	11.5	13.75
7	Indian Knob, Price Canyon	206	11.50	13.75
8	San Luis Obispo	69112	11.50	13.75
9	Morro Bay, Cayucos	17942	13.00	15.50
10	Five Cities (Southern Portion)	40261	13.00	15.50
11	Orcutt Rd, Lopez Drive, Rt. 227	2840	13.00	15.50
12	Nipomo, North of Willow Rd.	5384	13.00	15.50

Evacuation Time Estimates by Scenario and Conditions						
Evacuation Scenario			Cumulative Evacuation Time (Hours)			
No.	Sector	PAZs	Normal Weekday	Normal Night	Summer Weekend	Adverse Weather
1	Base	(1, 2)	2.50	2.00	2.50	2.75
2	North-A (limited)	Base + (5)	11.50	11.50	11.00	13.75
3	North-B (all)	Base + (5, 9)	12.00	11.50	11.50	14.25
4	East (all)	Base + (4, 8)	11.50	11.00	10.75	13.75
5	North & East (all)	Base + (4,5,8,9)	13.00	11.50	11.75	15.50
6	Southeast-A (limited)	Base + (3)	4.50	4.25	3.50	5.25
7	Southeast-B (limited)	Base+ (3,6,7)	4.50	4.50	5.00	5.25
8	Southeast-C (limited)	Base+ (3,6,7,10,11)	10.25	9.50	9.25	12.25
9	Southeast-D(limited)	Base+ (3,6,7,10,11,12)	10.25	9.50	9.75	12.25
10	Entire BEPZ	Base + (3-12)	13.00	11.00	12.00	15.50

TITLE: Operational Support Center

10/11/02
EFFECTIVE DATE

1. SCOPE

This procedure describes the activation and operation of the Operational Support Center (OSC).

2. DISCUSSION

2.1 Location and Description

The OSC provides a place separate from the Control Room and Technical Support Center where designated support personnel assemble and receive specific assignments. The OSC is located primarily on the 119' elevation in the Turbine Building, Medical Facility, and 85' Access Control. These areas contain a variety of immediately available emergency support equipment.

2.2 OSC Functions

2.2.1 A staging area for personnel assigned to one of the following tasks:

a. Emergency maintenance, assessment, repair and damage control

b. Fire fighting, search and rescue and medical assistance

c. Post-accident sampling and radiological assessment

2.2.2 Emergency response equipment storage

2.2.3 Personnel decontamination facility

2.3 Within approximately 60 minutes of the initiation of the ERO notification, the OSC is required to be staffed by the following minimum staff positions.

- Emergency Maintenance Coordinator
- Site Radiation Protection Coordinator
- Technical Maintenance Coordinator
- Mechanical Coordinator
- Electrical Coordinator
- 6 - C&RP Technicians

NOTE: Vacancies may be filled by other qualified individuals not already filling a minimum staff position.

2.4 Activation of OSC

When minimum staffing is achieved, the OSC is declared activated.

3. RESPONSIBILITIES

3.1 Senior Control Operator

3.1.1 Ensures dispatched Operations teams are tracked until relieved by the OSC Access Supervisor.

3.2 Emergency Maintenance Coordinator

3.2.1 Directs activities of OSC personnel.

3.2.2 Coordinates a repair plan to recover from the emergency, in cooperation with the SEC and Maintenance Logistics Advisor.

3.2.3 Fabricates and sets up any special equipment necessary at the direction of the SEC and Maintenance Logistics Advisor.

3.2.4 Coordinates the movement and accountability of maintenance teams.

3.2.5 Provides OSC status updates to the TSC.

3.3 Maintenance Coordinators (Mechanical, Technical, and Electrical Maintenance)

3.3.1 Plan and coordinate resources to conduct assessment, maintenance, repair or installation of special equipment.

3.3.2 Provide team status updates to the OSC Access Supervisor.

3.4 OSC Access Supervisor

3.4.1 Coordinates plant access and ensures personnel entering a potentially hazardous plant area are informed of:

a. plant status.

b. potential hazards.

c. safety and radiation protection provisions.

d. appropriate protective equipment required.

3.4.2 Maintains accountability of personnel dispatched from the OSC.

3.4.3 Ensures response teams have been briefed on plant conditions prior to dispatch.

3.4.4 Assists the Control Room and OSC in communicating with response teams.

3.5 Site Radiation Protection Coordinator

3.5.1 Provides personnel exposure monitoring and record keeping.

3.5.2 Directs surveys and establishes radiation or contamination control area boundaries.

3.5.3 Determines radiological protection requirements for RCA access.

3.5.4 Determines when an emergency exposure authorization is required and provides justification to the SEC or RM.

3.5.5 Informs the Radiological Advisor, Emergency Maintenance Coordinator and the OSC Access Supervisor of team activities.

3.5.6 Coordinates with the OSC Access Supervisor to brief radiological conditions to personnel dispatched into affected plant areas.

3.6 Site Chemistry Coordinator

3.6.1 Directs sampling and radio-chemical and chemical analysis.

3.6.2 Informs the Radiological Advisor and Emergency Maintenance Coordinator of actions and findings.

3.6.3 Coordinates personnel dispatched for sampling or analysis with the Site Radiation Protection Coordinator and OSC Access Supervisor.

3.7 Operations Coordinator

3.7.1 Coordinates Operation's response outside the Control Room.

4. INSTRUCTIONS

4.1 Use the form appropriate for the OSC ERO position filled.

4.2 The forms are checklists of items to remember to consider. The steps may be performed in any sequence, may be modified, or may be considered N/A at the discretion of the Emergency Maintenance Coordinator, unless specifically prohibited.

5. RECORDS

5.1 Completed checklist are good business records and shall be retained for three years in accordance with OM10.DC1.

6. ATTACHMENTS

6.1 Form 69-20506, "Emergency Maintenance Coordinator Checklist," 09/25/02

6.2 Form 69-20507, "Team Predeparture Checklist," 11/13/01

6.3 Form 69-20508, "OSC Access Supervisor," 09/25/02

6.4 Form 69-20509, "Site Radiation Protection Coordinator," 09/25/02

6.5 Form 69-20510, "Site Chemistry Coordinator Checklist," 09/25/02

6.6 Form 69-20511, "Maintenance/Operations Coordinator Checklist," 09/25/02

6.7 Form 69-20512, "Maintenance Team Exposure Tracking Sheet," 11/13/01

6.8 Form 69-20513, "OPS Team Dispatch Decision Tree," 02/25/02

DIABLO CANYON POWER PLANT
EP EF-2
ATTACHMENT 6.1 **1 AND 2**

TITLE: Emergency Maintenance Coordinator Checklist

Print Name _____ **Date** _____

- ☐ 1. Sign in on the Assembly and Accountability Checklist form, if applicable.
- ☐ 2. Sign in on the OSC sign-in board.
- ☐ 3. Ensure OSC accountability rosters are sent to Security per EP G-4, "Assembly and Accountability."
- ☐ 4. Within approximately 60 minutes of the initiation of the ERO notification, the OSC is required to be staffed by the following positions.

  NOTE: Qualified individuals not already filling a minimum staff position may fill vacancies.

☐ Emergency Maintenance Coordinator	☐ Mechanical Coordinator
☐ Site Radiation Protection Coordinator	☐ Electrical Coordinator
☐ Technical Maintenance Coordinator	☐ 6 - C&RP Technicians

- ☐ 5. When minimum staffing is achieved, declare the OSC activated.
- ☐ 6. Notify the Control Room
- ☐ 7. Notify the TSC Maintenance Logistics Advisor
- ☐ 8. Request additional Mechanical, Electrical, and Technical Maintenance personnel.
- ☐ 9. Request additional clerical support from the TSC Administrative Advisor.
- ☐ 10. Discuss issues regarding authorization to waive administrative controls for emergency maintenance with the SEC. See AD2.ID1 for further information.
- ☐ 11. Direct clerical assistants to:
  - Coordinate with the TSC Administrative Advisor to develop a 24 hour shift schedule.
  - Update OSC status boards.
  - Assist in maintaining the EMC log.
  - Maintain a log of significant communications and decisions.

Continuous Actions

- ☐ 1. If plant conditions warrant, direct the SRPC to establish periodic OSC radiological habitability surveys.
- ☐ 2. Notify the TSC Radiological Advisor of any OSC radiological habitability surveys.
- ☐ 3. If a team must be dispatched without an SWP, request SEC authorization.
- ☐ 4. Refer to EP RB-2, if the SRPC request authorization for emergency exposure.
- ☐ 5. Communicate the following to the TSC Maintenance Logistics Advisor:
  - Significant accident mitigation
  - Problem evaluation and team assignment
  - Team dispatch times
  - Update team status
  - Team return time and results
- ☐ 6. Perform periodic OSC briefings.
- ☐ 7. If OSC evacuation is necessary, transfer operations to the backup OSC. Refer to EP EF-9.

DIABLO CANYON POWER PLANT
EP EF-2
ATTACHMENT 6.2

1 AND 2

TITLE: Team Predeparture Checklist

TEAM NUMBER _____ **Date** _____ **Time** _____

Maintenance Coordinator

1) Team ☐ OPS ☐ TM ☐ MM ☐ Elect ☐ Chem ☐ RP ☐ Sec **Priority** ☐ High ☐ Med ☐ Low

2) Members

Name	Pager	Name	Pager
Name	Pager	Name	Pager
Name	Pager	Name	Pager

3) Pager or Radio

4) Work Location ☐ **Aux** ☐ **Turb** ☐ **Cont** **Other** _____

5) Unit ☐ 1 ☐ 2 **Purpose** _____

6) Tailboard Conducted ☐ Yes ☐ No

7) Rad brief needed? ☐ Yes ☐ No SWP # ☐ N/A

_____
RP Coordinator Signature

OSC Access Supervisor

8) ☐ **Verify Steps 1 - 7 Are Complete**

9) ☐ **Team Communications Established**

10) ☐ **EMC Notified of Team Dispatch**

11) ☐ **JOBSITE Phone #** _____

Team Debrief

12) Mission Status _____

13) Team Return Time/Date _____

14) EMC Notified of Team Return & Status _____
OSC Access Supervisor Signature

15) Technical Debrief _____
Maintenance Coordinator Signature

DIABLO CANYON POWER PLANT
EP EF-2
ATTACHMENT 6.3

1 AND 2

TITLE: OSC Access Supervisor

Print Name _____ **Date** _____

- ☐ 1. Sign in on the Assembly and Accountability Checklist form, if applicable.
- ☐ 2. Sign in on the OSC sign-in board.
- ☐ 3. IMMEDIATELY determine if teams have been dispatched. Provide this information to the EMC and SRPC.
- ☐ 4. Contact Medical Facility (#_____).
- ☐ 5. Contact Operations to coordinate accountability of personnel dispatched from the Control Room. Refer to Form 69-20513, "OPS Team Dispatch Decision Tree."
- ☐ 6. Contact Security to coordinate access of personnel into the power block.

  NOTE: Security maintains accountability of Security personnel.

Continuous Actions

Maintain team accountability

- ☐ 1. Log all team departures and returns.
- ☐ 2. Review **Team Predeparture Checklist** for completeness and authorize departure.
- ☐ 3. Inform the EMC of team departures and returns.

Maintain communications with all teams.

- ☐ 4. Inform response teams of changes in emergency classification or plant conditions.
- ☐ 5. Periodically update the EMC of team status.
- ☐ 6. Periodically update the SRPC on team exposure status and radiological problems, dose rates encountered.
- ☐ 7. Maintain a log of significant communications and decisions.
- ☐ 8. Ensure returning teams report to the SRPC to receive a debriefing on radiological conditions, personnel exposure, and other hazards or problems encountered.

DIABLO CANYON POWER PLANT
EP EF-2
ATTACHMENT 6.4 **1 AND 2**

TITLE: Site Radiation Protection Coordinator

Print Name _____ **Date** _____

- ☐ 1. Sign in on the Assembly and Accountability Checklist form as applicable.
- ☐ 2. Sign in on the OSC sign-in board.
- ☐ 3. Determine if additional technicians should be called in.
- ☐ 4. Contact the TSC Radiological Advisor.
- ☐ 5. Obtain a computer printout record of current calendar year exposure for personnel who may be dispatched from the OSC.

Continuous Actions

- ☐ 1. Upon the arrival of the NRC Initial Site Team, the NRC Co-locator (NRC HP Specialist) may come to the OSC. Upon arrival, brief him on the emergency developments, mitigating actions, and current activities. Ensure the NRC Co-locator is familiar with telephone use, information flow, and has copies of the same documents used for your position.
- ☐ 2. Perform a predeparture analysis of the anticipated TEDE and determine if any identified team member requires an emergency exposure authorization prior to dispatch.
- ☐ 3. If any team member may exceed the Federal Limit Calendar Year exposure criteria of 5 rem TEDE, an emergency exposure authorization is required for that individual.
- ☐ 4. Refer to EP RB-2, "Emergency Exposure Guides," for further instructions while continuing in this procedure.
- ☐ 5. Brief teams prior to departure.
- ☐ 6. Prepare an SWP prior to entry if time permits, although a verbal SWP is permissible. Perform verbal SWP, to be followed up by the written SWP, in accordance with EP RB-4.
- ☐ 7. Brief teams on the radiological conditions they will encounter and discuss travel routes.
- ☐ 8. Determine the requirements for personnel dosimetry in accordance with EP RB-1, "Personnel Dosimetry."
- ☐ 9. Initiate "Team Predeparture Checklist" for C&RP personnel who are not part of a maintenance team.
- ☐ 10. If plant conditions warrant, recommend periodic OSC radiological habitability surveys to the EMC.
- ☐ 11. When the EMC directs, establish periodic radiological habitability surveys as required.
- ☐ 12. Continuously track personnel emergency exposure and maintain records to determine when individual limits are being approached.

☐ 13. Form 69-20512 may be used to track exposures.

NOTE: DCFs were developed for Field Monitoring Teams and DO NOT take credit for respiratory protection or other protective measures. If such protective measures are taken, DCF are not appropriate for in-plant use. All radiation protection measures in addition to DCFs should be taken in consideration for mitigating the emergency response.

☐ 14. If high airborne radio iodine conditions are present, coordinate the administration of Thyroid Blocking (KI) as directed by the TSC Radiological Advisor and in accordance with EP RB-3, "Stable Iodine Thyroid Blocking."

☐ 15. If any returning team personnel require decontamination and the normal access control decon facilities are not available, refer to EP RB-5, "Personnel Decontamination," for alternate locations during emergencies.

☐ 16. Provide a radiological debriefing of returning teams including exposures, radiological conditions and other hazards or problems encountered.

DIABLO CANYON POWER PLANT
EP EF-2
ATTACHMENT 6.5

1 AND 2

TITLE: Site Chemistry Coordinator Checklist

Print Name _____ **Date** _____

- ☐ 1. Sign in on the Assembly and Accountability Checklist form as applicable.
- ☐ 2. Sign in on the OSC sign-in board.
- ☐ 3. If the SRPC has not arrived, determine if additional technicians should be called in.
- ☐ 4. Contact the TSC Radiological Advisor.
- ☐ 5. Obtain a record of current calendar year exposures for Chemistry personnel who may be dispatched from the OSC.

Continuous Actions

- ☐ 1. Coordinate with the TSC Radiological Advisor to determine plant chemistry sampling requirements.
- ☐ 2. Supervise radiochemical and chemical analysis.
- ☐ 3. Perform a predeparture analysis of the anticipated TEDE and determine if any identified team member requires an emergency exposure authorization prior to dispatch.
- ☐ 4. If any team member may exceed the Federal Limit Calendar Year exposure criteria of 5 rem TEDE, an emergency exposure authorization is required for that individual.
- ☐ 5. Notify the SRPC to refer to EP RB-2, "Emergency Exposure Guides," for further instructions while continuing with the team briefing.

  NOTE: If necessary, an emergency exposure authorization of 5 rem TEDE may be obtained from the RM/SEC to permit sampling activity to proceed. Any individual who receives an emergency exposure shall be relieved of further emergency response duties and a replacement obtained.

- ☐ 6. Brief personnel dispatched for sampling or analysis.
- ☐ 7. If PASS is activated, make the necessary arrangements per EP RB-15, "Post-Accident Sampling System."
- ☐ 8. Keep the EMC informed of actions and findings.

DIABLO CANYON POWER PLANT
EP EF-2
ATTACHMENT 6.6

1 AND 2

TITLE: Maintenance/Operations Coordinator Checklist

Print Name _____ **Date** _____

- ☐ 1. Sign in on the Assembly and Accountability Checklist form, if applicable.
- ☐ 2. Sign in on the OSC sign-in board.
- ☐ 3. Determine the staffing and equipment requirements.

  NOTE: During normal working hours maintenance personnel may be paged. During off-normal working hours personnel must be called in from home.
- ☐ 4. Report staffing requirements to the EMC.
- ☐ 5. Maintenance personnel should be staged in the maintenance shops or the OSC.
- ☐ 6. Coordinate maintenance team dispatch with the Access Supervisor.

DIABLO CANYON POWER PLANT
EP EF-2
ATTACHMENT 6.7 **1 AND 2**

TITLE: Maintenance Team Exposure Tracking Sheet

SRD Dose Conversion Factors

Source Term	TEDE DCF No KI	TEDE DCF With KI	THY. DCF No KI	THY. DCF With KI
CORE	13	5	162	16
GAP	24	3	515	52
DB RCS	3	1	40	4
SG Normal	1	1	4	0.4
SG Empty	3	1	40	4
SG Flooded	15	2	285	29

Use the tables above and below to convert PIC readings to Dose.

NOTE: DCFs were developed for Field Monitoring Teams and DO NOT take credit for respiratory protection or other protective measures. If such protective measures are taken, DCF are not appropriate for in-plant use. All radiation protection measures in addition to DCFs should be taken in consideration for mitigating the emergency response.

1) Obtain the source term from the Radiological Data Processor - Dose Assessment in the TSC.
2) Record the time and readings for both the high and low range PICs.
3) Multiply by the dose conversion factors (DCFs). If the source term changes, use the new DCF multiplier.
4) If a PIC is re-zeroed, circle the last TEDE and Thyroid CDE values and add the circled values to determine the Cumulative TEDE and Thyroid CDE.
5) Refer to EP RB-2 for emergency worker PAGs.

Name of Individual:

	Only use highest onscale PIC reading		See table above.				Only necessary when PIC is re-zeroed.	
Time Reported	Low Range PIC (mR)	High Range PIC* (Roëntgen)	TEDE DCF	Thyroid CDE DCF	TEDE (mrem)	Thyroid CDE (mrem)	Cumulative TEDE (mrem)	Cumulative Thyroid CDE (mrem)

Name of Individual:

	Only use highest onscale PIC reading		See table above.				Only necessary when PIC is re-zeroed.	
Time Reported	Low Range PIC (mR)	High Range PIC* (Roëntgen)	TEDE DCF	Thyroid CDE DCF	TEDE (mrem)	Thyroid CDE (mrem)	Cumulative TEDE (mrem)	Cumulative Thyroid CDE (mrem)

TITLE: Maintenance Team Exposure Tracking Sheet

Name of Individual:								
	Only use highest onscale PIC reading		See table above.				Only necessary when PIC is re-zeroed.	
Time Reported	Low Range PIC (mR)	High Range PIC* (Roëntgen)	TEDE DCF	Thyroid CDE DCF	TEDE (mrem)	Thyroid CDE (mrem)	Cumulative TEDE (mrem)	Cumulative Thyroid CDE (mrem)

Name of Individual:								
	Only use highest onscale PIC reading		See table above.				Only necessary when PIC is re-zeroed.	
Time Reported	Low Range PIC (mR)	High Range PIC* (Roëntgen)	TEDE DCF	Thyroid CDE DCF	TEDE (mrem)	Thyroid CDE (mrem)	Cumulative TEDE (mrem)	Cumulative Thyroid CDE (mrem)

Name of Individual:								
	Only use highest onscale PIC reading		See table above.				Only necessary when PIC is re-zeroed.	
Time Reported	Low Range PIC (mR)	High Range PIC* (Roëntgen)	TEDE DCF	Thyroid CDE DCF	TEDE (mrem)	Thyroid CDE (mrem)	Cumulative TEDE (mrem)	Cumulative Thyroid CDE (mrem)

Name of Individual:								
	Only use highest onscale PIC reading		See table above.				Only necessary when PIC is re-zeroed.	
Time Reported	Low Range PIC (mR)	High Range PIC* (Roëntgen)	TEDE DCF	Thyroid CDE DCF	TEDE (mrem)	Thyroid CDE (mrem)	Cumulative TEDE (mrem)	Cumulative Thyroid CDE (mrem)

NOTE: the high range PIC reading must be multiplied by 1,000 to convert from Roëntgen to mR.

DIABLO CANYON POWER PLANT
EP EF-2
ATTACHMENT 6.8

1 AND 2

TITLE: OPS Team Dispatch Decision Tree