

ATTACHMENT 1

Implementing Procedures
In This Submittal

Volume 3A

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M-2 Revision 6

G-2 Revision 2

M-1 On-The-Spot-Change

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Volume 3B

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EF-3 Revision 1

EF-7 Revision 1

EF-5 On-The-Spot-Change

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PDR ADOCK 05000275
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ATTACHMENT 2

Location of Bracketed
Privacy/Proprietary Information

Procedure M-2, Revision 6:

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On Appendix Z (last attachment)

Procedure G-2, Revision 2:

Attachment: "Emergency Organization Call List"
On each of 28 pages

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Procedure EF-3, Revision 1:

Last seven attachments:

1. "EOF Activation Checklist for the Advisor to the County Emergency Organization (ACEO)"
2. "EOF Activation Checklist for the Interim Radiological Recovery Manager (RERM)"
3. "EOF Activation Checklist for the Interim EARS Operator"
4. "EOF Activation Checklist for the Interim Operations and Analytical Recovery Manager (OARM)"
5. "EOF Activation Checklist for the Interim Public Information Recovery Manager (PIRM)"
6. "EOF Activation Checklist for the Technical Advisor to the PIRM"
7. "Auxiliary Trailer Call Out List"

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IMPLEMENTING PROCEDURES

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DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNIT NO(S) 1 AND 2

EMERGENCY PROCEDURE
TITLE: NONEMPLOYEE INJURY OR ILLNESS (THIRD PARTY)

APPROVED:

R. C. T. [Signature]
PLANT MANAGER

9-28-82
DATE

SCOPE

This procedure describes the actions which are to be taken in the event of an injury or illness involving a nonemployee which is incurred in connection with Company operations either on or in the vicinity of the plant site.

IMMEDIATE ACTIONS

The employee(s) who are at the scene shall:

1. Render all necessary first aid.
2. Notify the control room (Shift Foreman) as soon as practical.

SUBSEQUENT ACTIONS

The Shift Foreman shall direct all subsequent actions until relieved by the Long Term Site Emergency Coordinator (if the situation warrants it). Such actions should include the following:

1. Sound emergency signal, code override, or other general warning signal to clear the area if the situation warrants it.
2. Dispatch additional first aid personnel such as the project construction EMT to the scene of the injury or illness if required. Personnel who have not been instructed to provide assistance at the scene should remain on their jobs and stay clear of the affected area.
3. Call an ambulance or physician if the situation warrants it. The practices which are to be followed if this step is necessary are given in the following section of this procedure.
4. Secure the names and addresses of all witnesses (both Company and noncompany).
5. Perform the notifications required by Appendix Z.

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TITLE: NONEMPLOYEE INJURY OR ILLNESS (THIRD PARTY)

6. An accident report should be completed as soon as practical either on Form 62-6226 "Report of Miscellaneous Accident," or Form 62-4542, "Report of Automobile Accident," as is appropriate. The accident report should be forwarded to the plant clerk for processing.

POLICIES TO BE FOLLOWED WHEN REQUESTING OUTSIDE ASSISTANCE

If a third party requires medical care, the following policies should be followed by Company personnel who secure assistance:

1. If the injured or ill individual is in a condition where he can speak for himself, call the physician which he requests. If an ambulance is required, call the ambulance which he requests.
2. If the injured or ill individual cannot speak for himself, but friends, relatives, or his employer are present, leave the matter of his care to them.
3. If an injured or ill individual cannot speak for himself, and friends, relatives, or employer, or public officials are not present or will not take charge, call a local ambulance service and have the injured or ill person sent to the San Luis Obispo General Hospital for treatment.
4. Whenever a physician or an ambulance is called, it should be clearly stated by the employee making the call that this is not Company responsibility and is made not on behalf of the Company but of the injured or ill person or for his benefit, or until family, friends, employer, or public officials can take charge.
5. An injured or ill third party should only be transported in a Company vehicle in the event of an extreme emergency when the delay associated with securing an ambulance might result in a significant deterioration of the injured person's condition.

POLICIES TO BE FOLLOWED IN THE EVENT OF RADIOACTIVE CONTAMINATION

If the injured or ill individual is significantly contaminated with radioactive material or overexposed, the matter will be treated in the same manner as would a similar incident involving a Company employee (see Emergency Procedure R-1 "Personnel Injury (Radiologically related) and/or Overexposure).

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TITLE NONEMPLOYEE INJURY OR ILLNESS (THIRD PARTY)

REFERENCES

1. PGandE Standard Practice 250.
2. PGandE Claims Department Circular Letter No. 19, 10/1/49.
3. NRC Information Notice 80-06, "Notification of Significant Events."

ATTACHMENTS

1. Form 62-6226, "Report of Miscellaneous Accident."
2. Form 62-4542, "Report of Automobile Accident."
3. Appendix Z, Emergency Procedure Notification Instructions

REPORT OF MISCELLANEOUS ACCIDENT
CONFIDENTIAL
 FOR USE BY COMPANY ATTORNEYS ONLY

FORWARD REPORT TO

ACCIDENT REPORT NUMBER

DEPARTMENT (CHECK)	GAS	ELECTRIC	STEAM	WATER	OTHER	ALPHA	YEAR	SEQ NUMBER	DIV USE
	1	2	3	4	5				

CHECK #2 ELECTRIC - FOR ALL POWER PLANTS AND WATER COLLECTING
 CHECK #3 STEAM HEAT - FOR COMMERCIAL STEAM HEAT ONLY

1. LOCATION OF ACCIDENT: STREET HIGHWAY, MILEPOST OR OTHER SPECIFIC LOCATION, CITY, NEAREST TOWN, POWER HOUSE, ETC. AND COUNTY

2. DATE OF ACCIDENT: (MONTH-DAY-YEAR) **3. TIME** HOURS **4. DATE COMPANY WAS NOTIFIED:** (MONTH-DAY-YEAR)

5. INCIDENT BEING REPORTED: CAR-POLE TRIP-FALL FIRE ELECTRIC CONTACT
 EXPLOSION MOTOR BURNOUT STORM DIG-IN OTHER _____
REPORT: If necessary, use reverse side of this form for explanatory sketch or additional information.

WERE PHOTOS TAKEN OF THE ACCIDENT? YES NO WAS ANY PHYSICAL EVIDENCE SECURED IN CONNECTION WITH THIS INCIDENT? YES NO

6. NAME AND ADDRESS OF
 1. INJURED PERSON 2. PERSON DAMAGING COMPANY PROPERTY OR 3. OWNER OF DAMAGED PROPERTY OTHER THAN PG&E PROPERTY.....
 (INDICATE NUMBER IN SQUARE)

<input type="checkbox"/>	NAME	ADDRESS	CITY, STATE	PHONE NUMBER
<input type="checkbox"/>	NAME	ADDRESS	CITY, STATE	PHONE NUMBER
<input type="checkbox"/>	NAME	ADDRESS	CITY, STATE	PHONE NUMBER

7. WITNESSES - IMPORTANT - Secure names, addresses and phone numbers of all witnesses—if no eye witness, give names of those who can give information. Show "None" if there were no witnesses.

PG&E EMPLOYEE'S NAME, DEPT., PHONE NUMBER:	NON-EMPLOYEE'S NAME, ADDRESS, PHONE NUMBER:
--	---

8. ESTIMATED TOTAL DOLLAR DAMAGE TO PG&E COMPANY PROPERTY \$ **9. WAS THERE ANY DAMAGE TO PROPERTY OF OTHERS?** YES NO UNKNOWN IF YES, ESTIMATE TOTAL DOLLAR DAMAGE \$

10. NAME OF FIRE SUPPRESSION UNIT USFS COUNTY FIRE DISTRICT CDF MUNICIPAL UNKNOWN NONE **11. IS COLLECTION ACTION BY THE COMPANY RECOMMENDED?** YES NO

DIVISION: G.O. OR GENERAL CONSTRUCTION DEPARTMENT	REPORT PREPARED BY: (PRINT NAME)	REPORT REVIEWED BY: (MANAGER, SUPT, FOREMAN, ETC.)
DISTRICT & TOWN	DATE	SIGNED: _____
LOCATION OR ITEM NO	PHONE NO.	PRINT NAME
ACCOUNT NO	JOB IN PROGRESS AT TIME OF ACCIDENT (G.M. W.O. M. D. & C.)	PHONE NO.
	JOB NO. ISSUED TO COVER REPAIRS (W.O. M. D. & C.)	R.C. NO

Confidential

For Use by Company Attorneys Only
REPORT OF AUTOMOBILE ACCIDENT

FORWARD REPORT TO:

DIVISION, S. O. OR
GENERAL CONSTRUCTION

1. Who was the other driver and owner; or owner of damaged property?

Driver's name _____
Address _____
Street, City _____
Sex _____ Date of Birth _____ Oper. Lic. No. _____
Owner's name _____
Address _____
Street, City _____
Vehicle: Make _____ Type _____ Year _____ Lic. No. _____
Engine No. _____

(ABOVE SPACE FOR GENERAL OFFICE USE ONLY)

ACCIDENT REPORT NUMBER			DIV. USE
DIV. OR S.O. DEPT. (ALPHA)	YEAR	NUMBER (NUMERIC)	DIST. OR DEPT.

Who was injured?
1. Name: _____ Age: _____ Address: _____ Injury (1) _____
2. Name: _____ Age: _____ Address: _____ Injury (2) _____
Injured taken to: _____

Passengers in other vehicle.
3

1. Name _____ Address _____
2. " _____ " _____
3. " _____ " _____

Persons in the vicinity of accident.
4

1. Name _____ Address _____
2. " _____ " _____
3. " _____ " _____

Time and place of 'acc.
5

Date _____ at _____ A. M. - P. M. On _____ (Street or rural highway)
At _____ In _____ (State)
(Intersecting street, house number or highway location) (City or County)

What damage resulted?
6

To the other vehicle or property _____ Estimated cost _____
To company vehicle _____ Estimated cost _____

Describe here in detail how the accident happened. This should be very complete.
7

Direction of other vehicle _____ Speed of other vehicle _____ Did other vehicle hit you? _____ Did you hit the other vehicle? _____
Direction of company vehicle _____ Speed of company vehicle _____
Number of seat belts in company vehicle _____ Number of seat belts in use at time of accident _____
Seat location of occupants in company vehicle not using seat belts _____
(IF NECESSARY USE ADDITIONAL SHEET TO COMPLETE STORY)

Wind, Weather and Light Conditions
8

(Describe fully) _____

Company vehicle driver ident.
9

Company driver _____ Age _____ Address _____
California Driver's License No. _____ Class _____ Expiration Date _____
Division _____ District _____ Dept. _____ Occupation _____
Vehicle number _____ Make _____ Type _____ Year _____ Odometer reading _____
Give names of pass. in company vehicle _____

LOCATION OR ITEM NO.	ACCOUNT NO.	JOB IN PROGRESS AT TIME OF ACCIDENT (S.M., W.O., M., D.&C.)	JOB NO. ISSUED TO COVER REPAIRS (W.O., M., D.&C.)	R.C. NO.

PACIFIC GAS AND ELECTRIC COMPANY
DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNIT NOS. 1 and 2

TITLE: EMERGENCY PROCEDURE NOTIFICATION INSTRUCTIONS

APPENDIX Z

1. When this emergency procedure has been implemented, and upon direction from the Shift Foreman, proceed as follows:
 - a. Notify the Plant Manager, Plant Superintendent, Supervisor of Chemistry and Radiation Protection or their designated alternates.
 - b. Contact the Division Field Claims Investigator:

[Mr. C. O. Schreil
at
Office
Home]

If the Field Claims Investigator cannot be promptly reached (at office, home, or on mobile division radio), the General Office Department of Safety, Health, and Claims shall be immediately notified in his place. A list of appropriate personnel is attached to Emergency Procedure M-1 or notification of appropriate personnel will be handled by the System Dispatcher if requested.

- c. Designate this event a significant event if, in the opinion of the shift forman, the injury will require treatment or observation which will last longer than 48 hours, or in any case of a fatality. Notify the NRC Bethesda Operation's center within one hour, as a minimum, using the red phone in the Control Room. Gather sufficient information from all sources so that the phone call is meaningful. Refer to Operating Procedure O-4 "Operating Order (One Hour Reporting Requirements to NRC)" for a suggested format for reporting. Notify the NRC that your call is pursuant to 10 CFR Part 50.72 (Notification of Significant Events).
 - d. In addition to the notifications performed above, also notify the following, if NRC is notified, Supervising Nuclear Generation Engineer (Personnel and Environmental Safety) or his alternate in the Department of Nuclear Plant Operation:

[Mr. W. H. Fujimoto
PGandE
Plant Ext.
Home]



DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNIT NO(S)

TITLE: EMERGENCY PROCEDURE
ESTABLISHMENT OF THE ON-SITE EMERGENCY
ORGANIZATION

APPROVED:

R. C. Thonberg
PLANT MANAGER

9-28-82
DATE

SCOPE

This procedure describes the responsibilities and the actions required by plant personnel for establishing the On-site Emergency Organization and indicates the preferred candidates to fill each position as required by Administrative Procedure NPAP A-5.

GENERAL

1. The transition from a normal operating organization to an On-site Emergency Organization involves the following three basic steps:
 - a. Filling appropriate On-site Emergency Organization positions on an interim basis with personnel who are immediately available on-site at the time of the emergency. See Figure 1 for the description of the "Suggested Interim Emergency Organization."
 - b. Notifying plant personnel off-site and on-site that their assistance is required.
 - c. Filling positions in the long-term emergency organization, as described in Figure 2, "Long-Term Emergency Organization," with appropriate plant personnel as they arrive at the Control Room, Operations Support Center, Technical Support Center, or the Emergency Operations Facility.
2. Plant personnel shall be assigned to emergency organization positions on an interim or long-term basis and are ranked in order of preference according to Attachment 1, "Emergency Organization Call List." Interim position-holders shall be responsible for performing the duties of the position as described in Table 1, "On-site Emergency Organizations' Responsibilities," until relieved by the long-term position-holder. Form 69-9370, "Site Emergency Organization Assignments" may be used to record emergency assignments.
3. Notification of required personnel is made using the listed numbers and call sequence in Form 69-10297, "Emergency Organization Call List." The preferred position holders should be contacted when possible. An "on-call" rotation for essential positions in the emergency organization is maintained in accordance with Administrative Procedure

TITLE: ESTABLISHMENT OF THE ON-SITE EMERGENCY ORGANIZATION

A-3, Supplement 1. The on-call person may be called if the preferred position holder is not immediately available or whenever judged necessary by the Shift Foreman.

4. The Shift Foreman shall remain in the Control room, where he is responsible for overall command and control of the emergency. He shall assume the position of the interim Site Emergency Coordinator. He shall not become totally involved in any single operation but shall maintain a broad perspective of operational conditions affecting the safety of the plant, in compliance with Nuclear Plant Administrative Procedure, NPAP A-102.
5. When an emergency is declared and notification of plant staff and offsite response organizations is in process, incoming phone calls on the plant emergency number shall be answered and the plant emergency number shall be provided to offsite personnel needing to contact the plant. Calls on the normal plant number will be answered to the extent possible without interfering with the emergency response.

INITIATING CONDITIONS

Notification and establishment of the On-site Emergency Organization shall be initiated by the Shift Foreman when he declares an Unusual Event, Alert, Site Area or General Emergency in accordance with Emergency Procedure G-1, "Accident Classification and Emergency Plan Activation."

IMMEDIATE ACTIONS

1. The Shift Foreman shall assume the position of the interim Site Emergency Coordinator, assess the situation, and appoint members of the on-site operating staff to assume the positions shown in Figure 1, "Interim Site Emergency Organization," as he deems necessary to terminate or mitigate the emergency. The interim Site Emergency Coordinator shall appoint as a minimum those assignments required for the emergency classification by Emergency Procedure G-1. In all cases this includes:
 - a. An Emergency Liaison Coordinator who shall conduct the required notification of off-site personnel and agencies in accordance with EP G-3, "Notification of Off-site Organizations."
 - b. An Emergency Operations Coordinator, who possesses an Operator's License, to be responsible for insuring that all operational matters are taken care of.

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NOTIFICATION OF AN UNUSUAL EVENT

1. The interim Site Emergency Coordinator shall contact as a minimum position holders for the long-term emergency organization positions indicated by the Unusual Event Stop Callout Point per Form 69-10297 "Emergency Organization Call List." Personnel contacted shall inform the caller as to whether they will proceed to their emergency response location or remain on standby status.
2. Additional plant personnel may be called out as deemed necessary by any of the above personnel.
3. All notifications shall be recorded, Form 69-10297 "Emergency Organization Call List," should be used for initial callout. Form 69-9221, "Emergency Notification Record" or a log should be used to record incoming calls or calls to persons not on Form 69-10297.

NOTIFICATION OF AN ALERT

1. The interim Site Emergency Coordinator shall contact position-holders to fill positions in the long-term emergency organization per Form 69-10297, "Emergency Organization Call List." During normal working hours, sounding of the Site Emergency Signal may be used as a means of establishing the emergency organization.
2. The interim Site Emergency Coordinator shall appoint an Emergency Liaison Coordinator who shall conduct the required notification of off-site personnel and agencies in accordance with EP G-3, "Notification of Off-site Organizations."
3. During off-normal hours or if sounding the Site Emergency Signal is not desirable, the interim Site Emergency Coordinator shall appoint a Liaison Assistant who shall notify necessary plant personnel per this procedure. The Liaison Assistant may perform the callout from the control room area or may be dispatched to the Technical Support Center (TSC) to activate the TSC telephone switchboard to receive incoming emergency calls and complete plant staff notification.
4. A second Liaison Assistant may be assigned to coordinate message dissemination between the Site Emergency Coordinator and the Emergency Liaison Coordinator.
5. As a minimum, one long-term position holder for the positions with personnel "on-call" listed in Form 69-10297 shall be notified and directed to report to their emergency locations. The interim Site Emergency Coordinator may designate additional personnel as required for the specific situation by calling other personnel as deemed necessary.

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6. Notify the Security Shift Supervisor to prepare for incoming plant personnel.
7. Support staff called on-site (other than essential position holders with predesignated response locations) should be directed to report to the Security Building lunchroom (OSC). Upon arrival, they will call the TSC or Control Room to receive further direction.
8. All notifications shall be recorded, Form 69-10297 "Emergency Organization Call List should be used for initial callout. Form 69-9221, "Emergency Notification Record" or a log should be used to record incoming calls or calls to persons not on Form 69-10297. The Site Emergency Coordinator shall be periodically informed of the personnel that have been notified.

NOTIFICATION OF SITE AREA EMERGENCY

1. Follow the same notification process as described under Notification of an Alert.
2. If long-term emergency position holders and support staff are already on station, notify them of the escalation or reduction of the emergency classification. Particular care should be given to notifying personnel at the following locations:
 - a. TSC or Control Room (depending on location of the Site Emergency Coordinator)
 - b. EOF, and monitoring teams under the control of EOF.
 - c. OSC and Security Shift Supervisor
 - d. Personnel who may be performing emergency actions in various areas of the plant site (other than at emergency facilities).

NOTIFICATION OF A GENERAL EMERGENCY

1. Follow the same notification procedure as described under Notification of a Site Area Emergency.
2. If long-term emergency position holders and support staff are already on station, notify them of the escalation of the emergency classification. Particular care should be given to notifying personnel at the following locations:

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- a. TSC or Control Room (depending on location of the Site Emergency Coordinator)
- b. EOF, and monitoring teams under the control of the EOF. 1
- c. OSC and Security Shift Supervisor
- d. Personnel who may be performing emergency actions in various areas of the plant site (other than at emergency facilities).

SUPPORTING PROCEDURES

EP G-1, "Accident Classification and Emergency Plant Activation"

EP G-3, "Notification of Off-site Organizations"

EP G-4, "Personnel Assembly and Accountability"

TABLES

1. On-site Emergency Operating Organization - Responsibilities

FIGURES

1. Suggested Interim Emergency Organization
2. Long-term Emergency Organization

ATTACHMENTS

1. Form 69-10297, "Emergency Organization Call List."
2. Form 69-9370, "Site Emergency Organization Assignments."
3. Form 69-9221, "Emergency Notification Record."

TABLE 1
ON-SITE EMERGENCY ORGANIZATION RESPONSIBILITIESA. Site Emergency Coordinator

1. Prior to being relieved by the Site Emergency Coordinator, the Interim Site Emergency Coordinator is responsible for the following in addition to the duties and responsibilities of the Shift Foreman:
 - *a. Make the initial evaluation and classification of the situation.
 - *b. Assign plant staff personnel to positions in the Site Emergency Organization.
 - c. Notify, or direct the notification of:
 - 1) Plant staff personnel
 - 2) Company off-site emergency organizations
 - 3) Local noncompany emergency support groups
 - 4) San Luis Obispo County, California Office of Emergency Services and the Nuclear Regulatory Commission
 - *d. Authorize the sounding of the site emergency signal.
 - *e. Authorize the evacuation of the plant site and specify the appropriate evacuation route.
 - *f. Authorize overtime and other expenses associated with establishing and maintaining an appropriate site emergency organization.
 - *g. Provide direction for all emergency response operations performed by Company personnel in the San Luis Obispo County Area.
 - *h. Maintain liaison with off-site emergency support groups.
 - *i. Make protective action recommendations regarding evacuation, sheltering, confiscation of food, or other emergency measures to local government agencies.
 - *j. Authorized any extraordinary emergency measures, such as the use of company emergency personnel exposure limits.

* Responsibility that may not be delegated.

TITLE: ESTABLISHMENT OF THE ON-SITE EMERGENCY ORGANIZATION

2. The Site Emergency Coordinator will establish the emergency response organization in the TSC and then relieve the individual who initially assumed the interim Site Emergency Coordinator duties (normally the Shift Foreman) and assume the following duties.
- a. Prior to the time that the corporate Recovery Manager assumes his position at the Emergency Operation Facility, the Site Emergency Coordinator is responsible to:
- *1) Provide direction for all emergency response operations performed by Company personnel in the San Luis Obispo County Area.
 - *2) Authorize any recommendations of the Company regarding evacuation, confiscation of food, or other emergency measures, to noncompany emergency support groups.
 - *3) Authorize changes in the Emergency Action Level classification to off-site authorities.
 - *4) Authorize any extraordinary emergency measures, such as the use of company emergency personnel exposure limits.
 - 5) Request assistance as necessary for on-site or off-site radiation monitoring from federal agencies, either through the county/state emergency response organization once established, or directly.
- b. Coordinate and direct all on-site activities.
- c. Maintain liaison with off-site emergency support groups providing on-site assistance and support the corporate Recovery Manager in the development of a coordinate recovery action plan for on-site.
- d. Recommend changes in Emergency Action Level Classification to the Recovery Manager.
- e. Manage TSC Operations through the three TSC Emergency Coordinators. This includes collecting and analyzing the technical information necessary for assessment of plant operational aspects, providing technical counsel in support of the Control Room (CR), assessment of radiological release potential, and determination of actual or potential release rates.

* Responsibility that may not be delegated.

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on-site exposure monitoring and contamination control, repair of plant components or systems as required by the emergency and/or consequences, and on-site personnel accountability.

- f. Provide management direction to the Control Room (CR) through the Emergency Operations Coordinator.
- g. Provide management direction to the Operational Support Center (OSC) through the Emergency Maintenance Coordinator.
- h. Assign plant staff personnel to positions in the On-site Emergency Organization as appropriate.
- *i. Authorize overtime and other expenses associated with maintaining an appropriate On-site Emergency Organization throughout the recovery period.
- j. Establish and maintain on-site personnel accountability.
- *k. Authorize the evacuation of the plant site and specify the appropriate evacuation route.
- *l. Obtain the Recovery Managers approval prior to authorizing any extraordinary emergency measures such as the use of Company emergency personnel exposure limits.

B. Emergency Liaison Coordinator

This position provides control of verbal and written communications to and from the site with the following duties and responsibilities:

1. Handle communications to and from the site and between site emergency response groups.
2. As directed by the Site Emergency Coordinator, notify plant staff and other affected individuals and organizations of the emergency and their assignments.
3. Maintain contact with on-site and off-site emergency support groups, regulatory agencies, and monitoring teams and transmit instructions and information to and from the Site Emergency Coordinator.

* Responsibility that may not be delegated.

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4. Maintain records of incoming and outgoing messages. Operate communications equipment and develop message content as required to support the above.

5. Provide general assistance to the Site Emergency Coordinator.

C. Liaison Assistant

1. Assist the Emergency Liaison Coordinator in communications and recording messages and carrying out his assigned duties.

D. Emergency Maintenance Coordinator

This position provides coordination of maintenance, repair and material deployment in response to the emergency situation with the following duties and responsibilities:

1. At the direction of the Site Emergency Coordinator fabricate and set up any special equipment necessary for recovery operations.
2. Provide management direction to the Operational Support Center Supervisor and maintenance organizations.
3. Coordinate the movement and accountability of support personnel brought to the site.
4. Provide general advice and assistance in these matters to the Site Emergency Coordinator and other evaluations personnel.

E. Maintenance Organizations

Electrical, mechanical and instrument coordinators are assigned to provide technical advice in these areas and supervise maintenance, repair or installation of special equipment required to respond or recover from the emergency at the direction of the Emergency Maintenance Coordinator.

F. Operations Support Center Supervisors

These positions are initially filled by the designated assembly area supervisors assigned to the access control and adjacent cold machine shop in-plant assembly areas. (See EP G-4 "Personnel Assembly and Accountability.") These persons are responsible for personnel accountability in these areas and immediate dispatch of fire fighting, maintenance, search and rescue and/or radiological monitoring personnel to assist the shift staff in response to the emergency.

TITLE: ESTABLISHMENT OF THE ON-SITE EMERGENCY ORGANIZATION

Following the initial response, personnel called from off-site or out of plant assembly areas will initially assemble at the plant security building lunchroom where a maintenance foreman will be designated Operational Support Center (OSC) supervisor to coordinate assignment of personnel to tasks designated by the control room or technical support center and maintain accountability of personnel dispatched from the OSC.

G. Emergency Evaluations and Recovery Coordinator

This position provides overall technical coordination of the plant response activities with the following duties and responsibilities:

1. Evaluate the safety consequences of the occurrence and advise the Site Emergency Coordinator accordingly of appropriate response actions and on-site and off-site recommended protective measures.
2. Advise the Site Emergency Coordinator on technical matters relating to nuclear and radiological safety.
3. Provide coordination and supervision of all company support teams operating at or in the vicinity of the site.
4. Provide coordination and supervision of all company technical support work as part of the overall recovery program developed by the Site Emergency Coordinator and Recovery Manager.
5. Advise the Site Emergency Coordinator of actions and findings of company support groups.
6. Assist the Site Emergency Coordinator in determining personnel deployment to emergency support assignments.
7. Provide operation and control of emergency data transmission systems, and review and evaluate plant data.

H. Emergency Radiological Advisor

This position provides overall coordination of radiological aspects of the emergency with the following duties and responsibilities:

1. Advise the Site Emergency Coordinator and/or Emergency Evaluations and Recovery Coordinator on matters relating to radiological safety.

TITLE: ESTABLISHMENT OF THE ON-SITE EMERGENCY ORGANIZATION

2. He shall be responsible for coordinating and supervising radiological surveys and investigations, both in plant and near site. He will work with the Radiological Emergency Recovery Manager in making an overall assessment of radiological conditions.
3. Coordinate and supervise all on-site radiological surveys and investigations, and provide management of the on-site radiation protection program.
4. Assist the Emergency Evaluation and Recovery Coordinator in operation and control of radiological emergency data transmission systems, review and evaluation of data from these systems, and development of data and status updates for transmission off-site

I. Site Chemistry and Radiation Protection Coordinator

This position assists the Emergency Radiological Advisor in coordinating on-site radiological protection and chemical and radiological surveys and investigations. These duties include the following:

1. Personnel exposure monitoring and record keeping.
2. Radiological and chemical analysis of in-plant samples.
3. In-plant surveys and establishment of radiation and/or contamination control area boundaries.
4. Determine radiation protection access requirements for entry to controlled areas.
5. Maintain proper records and logs.
6. Keep the Emergency Radiological Advisor and/or the Emergency Evaluation and Recovery Coordinator informed of actions and findings.

J. EARS Operator - TSC

This position assists the Emergency Radiological Advisor in radiological data processing. |

DIABLO CANYON POWER PLANT UNIT NO(S) 1 AND 2

NUMBER EP G-2
REVISION 2
DATE 8/11/82
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TITLE: ESTABLISHMENT OF THE ON-SITE EMERGENCY ORGANIZATION

K. Emergency Radiological Monitoring Teams

Emergency radiological teams will be 2-man teams established for near site and off-site monitoring in the event of a radiological release emergency. They have the following duties and responsibilities:

Near Site Team(s):

1. Perform radiation surveys in and around the plant site and obtain appropriate samples for analysis.
2. Maintain communications with the Control Room or Technical Support Center for reporting monitoring results and maintaining cognizance of the emergency situation.
3. Establish controlled access areas to contain or limit the spread of radioactive contamination, as appropriate.
4. Issue personnel protective equipment and clothing.
5. Establish and post radiation and/or contamination area boundaries.
6. Monitor personnel and evaluate their exposure, if required.
7. Maintain proper records and logs.
8. Keep the Emergency Radiological Advisor and/or the Emergency Evaluation and Recovery Coordinator informed of their actions and findings.

Off-Site Team(s):

1. Perform radiation surveys at off-site locations as designated by the Radiological Emergency Recovery Manager and obtain appropriate samples for analysis.
2. Maintain communications with the Emergency Operations Facility and Mobile Environmental Monitoring Laboratory for reporting results and maintaining cognizance of the emergency situation.
3. Coordinate monitoring activities and reporting of results with the county personnel assigned to the monitoring team.
4. Provide recommendations regarding establishing controlled access areas and determining the boundaries of such areas in cooperation with county personnel assigned to the monitoring team.

TITLE: ESTABLISHMENT OF THE ON-SITE EMERGENCY ORGANIZATION

5. Assist in monitoring personnel and evaluating their exposure as required.

6. Maintain proper logs and records.

7. Keep the Radiological Emergency Recovery Manager informed of their actions and findings.

L. Emergency Operations Coordinator

This position provides senior plant management representation in the control room.

1. Manage Operational Activities.

2. Supervise the Shift Foreman in the operational control of the plant.

3. Advise the Site Emergency Coordinator on operational matters.

M. Emergency Operations Advisor

This is a position filled by an individual knowledgeable in operational matters to provide general operational advice and assistance to the Site Emergency Coordinator and other evaluations personnel in the TSC. This position may be assigned other operational duties such as radwaste management as required by the situation.

N. Shift Engineer

This is a position in the normal operating organization which shall remain filled throughout the emergency recovery period. The initial function of this individual is to assist the Shift Foreman in the evaluation of the occurrence, possible consequences, and possible courses of action. In the long term, this position may assist in the Control Room or TSC on plant evaluation or radiological evaluation, as required by the occurrence.

N. Fire Brigades

These teams are responsible for on-site fire suppression activities.

O. Evacuation Coordinator

This is a temporary position to coordinate evacuation of non-essential personnel from the site if warranted by the situation. It would normally be assigned to the security force staff but may be assigned to a member of the emergency planning staff.

TITLE: ESTABLISHMENT OF THE ON-SITE EMERGENCY ORGANIZATION

P. Evacuation Team

These are temporary positions consisting of a group leader and a monitor who will accompany the evacuees in the event a site evacuation is necessary. The basic functions of this team are to:

1. Assure that the evacuees stay together and take the correct route.
2. Assist in personnel accountability at the evacuation off-site assembly area.
3. Secure radiation survey equipment and survey personnel and vehicles at the collection area and arrange for decontamination as required.

Q. First-Aid and Medical

Although the importance of providing prompt first-aid is well recognized, no provisions are include for establishing a first-aid team. All plant staff shall receive first-aid training and are authorized to take action to the extent justified. Personnel in the immediate area of the injured personnel, or as dispatched by the Site Emergency Coordinator, will provide care until off-site assistance arrives.

R. Data Processing

These positions provide engineering assistance to the Emergency Evaluation and Recovery Coordinator in performing those duties relating to evaluation of plant core/thermal hydraulics, electrical and mechanical data, coordination of technical support work, operation of computer systems and other on-site emergency response activities.

S. Advisor to the County Emergency Organization

The function of this position is to activate and provide interim management of the Emergency Operations Facility and be available to advise the County Emergency Organization on the meaning and significance of information being transmitted from the site. Basic duties and responsibilities include:

1. Prior to the arrival of the Recovery Manager and until relieved, act as the EOF Director to activate the utility portion of the Emergency Operation Facility (EOF and UDAC trailers). In this capacity, specific functions include:

TITLE: ESTABLISHMENT OF THE ON-SITE EMERGENCY ORGANIZATION

- a) Direct the activation of the utility portion of the Emergency Operation Facility (trailer) by appropriately energizing equipment and activating communications.
 - b) Provide administrative and management direction of the EOF interim staff in carrying out the duties of the Radiological Emergency Recovery Manager, the Public Information Recovery Manager, the Operations and Analytical Recovery Manager, and the EOF-EARS operator.
 - c) Keep the Site Emergency Coordinator informed and serve as his single point contact at the EOF.
2. Keep the senior county response staff member advised of plant conditions and recommended protective actions.
 3. Coordinate security of the EOF, UDAC and EOC with the Sheriff's office.

T. Interim Radiological Emergency Recovery Manager

This position assists the Advisor to the County Emergency Organization in coordination and direction of all off-site radiological assessment activities and development of radiological status information, until relieved by the corporate Radiological Emergency Recovery Manager. Basic duties and responsibilities include:

1. Develop radiological data and status information for approval and distribution to EOF, UDAC and EOC personnel.
2. Direct the activities of off-site monitoring teams and the mobile environmental monitoring laboratory, maintain records, and provide findings in status reports.
3. Perform dose projections and provide radiological assessment information for the determination of protective action recommendations.

U. EARS Operator--EOF

This position assists the Radiological Emergency Recovery Manager in the performance of his duties, including activation and operation of the EARS computer system, activation and operation of the health physics radio system and communication with off-site monitoring teams and maintenance of logs and record and preparation of status reports as directed, until relieved by the corporate EOF EARS operator.

TITLE ESTABLISHMENT OF THE ON-SITE EMERGENCY ORGANIZATION

V. Interim Operations and Analytical Recovery Manager

This position assists the Advisor to the County Emergency Organization in providing plant status information and coordination of local off-site emergency response activities, as directed, until relieved by the Corporate Operations and Analytical Recovery Manager. Basic duties and responsibilities include:

1. Activation and operation of plant data computer systems for obtaining plant data.
2. Preparation of plant status updates for approval and distribution to EOF, UDAC and EOC personnel.
3. Coordination and direction of off-site response activities involving local support, including activation and operation of radio and telephone systems and maintaining proper records of communications.

W. Interim Public Information Recovery Manager

This position assists the Advisor to the County Emergency Organization in formulating news releases concerning the emergency condition, obtaining approval of the release, and coordinating the news release with county and corporate public information personnel. It is staffed by a local public information representative until relieved by the Corporate Public Information Recovery Manager.

X. Technical Advisor to the Public Information Recovery Manager

This position assists the Public Information Recovery Manager by providing technical assistance in the preparation of news releases and participation in news media briefings.

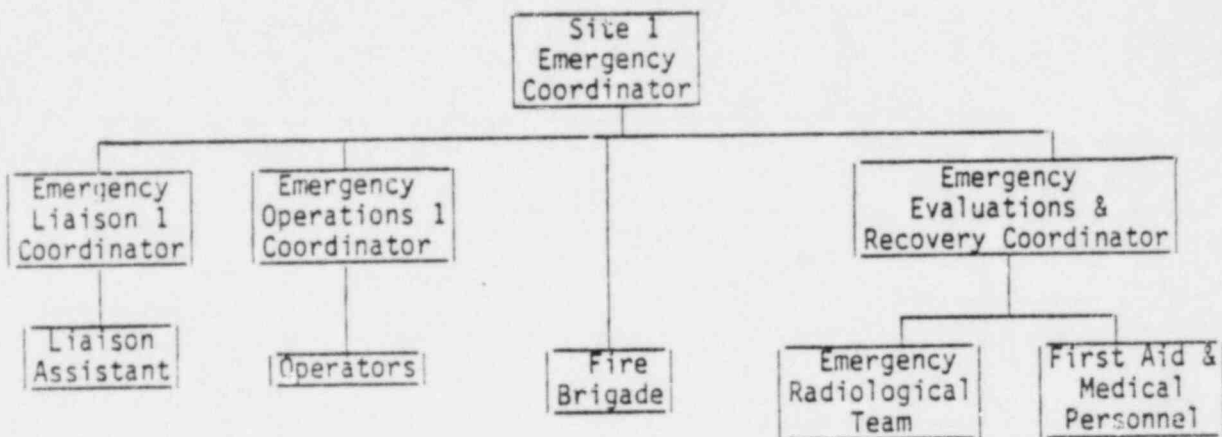
Y. Monitoring Team Liaison Coordinator

This position assists the Radiological Emergency Recovery Manager in communications with monitoring teams, the mobile van, UDAC and other emergency response locations until relieved by the Corporate Monitoring Director.

Z. County Liaison

This position assists the Advisor to the County Emergency Organization by facilitating the flow of information between the EOF and EOC.

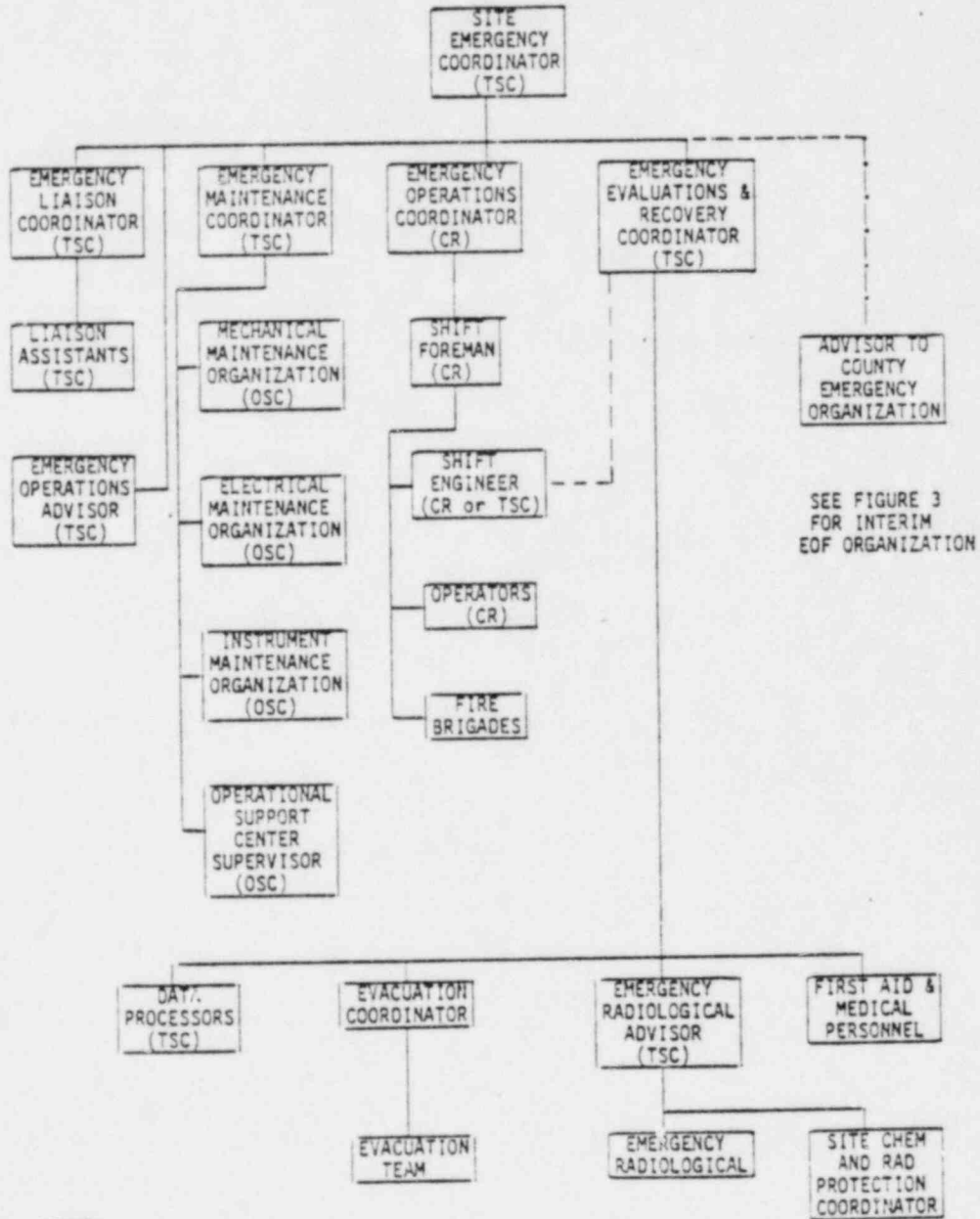
FIGURE 1
 TYPICAL ON-SHIFT EMERGENCY ORGANIZATION
 AND ASSIGNMENTS



Position	Typical Assignment
Interim Site Emergency Coordinator ¹ (See Table 1 for responsibilities)	Shift Foreman (Shift Engineer if not available)
Interim Emergency Liaison Coordinator ¹ (Develops notification messages and performs off-site notification)	Shift Control Technician, or Auxiliary Operator
Interim Emergency Operations Coordinator ¹ (Provides operational control of the plant)	Sr. Control Operator or Control Operator
Interim Emergency Evaluations & Recovery Coordinator (Plant and Radiological Assessment)	Shift Engineer (Assisted by Shift C&RP Technician if necessary)
Liaison Assistants (Notifies plant staff, coordinates message dissemination among liaison personnel)	Shift Control Technician, Shift Clerk or Auxiliary Operator
Operators	Assignments per the Interim Site Emergency Coordinator
Fire Brigade	See Emergency Procedure M-6 or R-6
Emergency Radiological Team	Shift C&RP Technician and Aux. Operator (if required)
First Aid and Medical	Employees at the scene

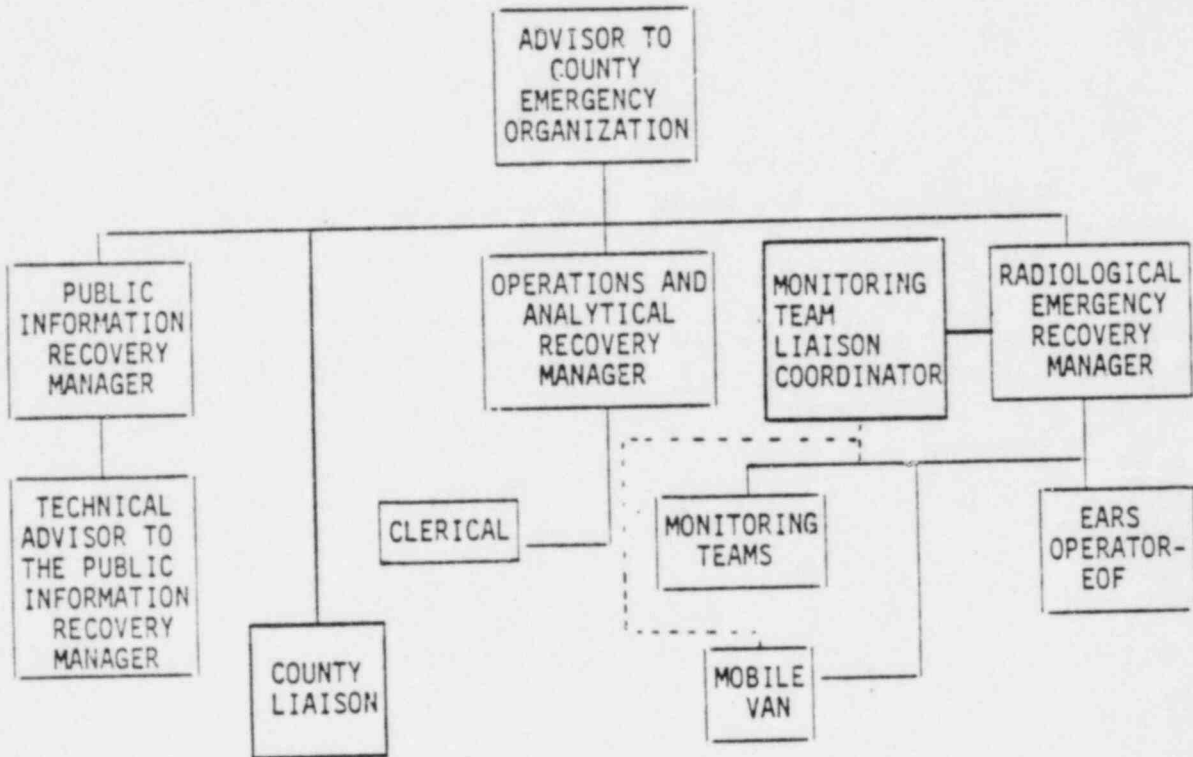
¹Required Assignments

FIGURE 2
 LONG-TERM EMERGENCY ORGANIZATION



LEGEND:
 — Line Authority
 - - - Line Authority until Recovery Manager Assumes EOF Management
 EOF - Emergency Operations Facility
 TSC - Technical Support Center
 OSC - Operational Support Center

FIGURE 3
INTERIM EOF ORGANIZATION



-----Indicates Communication Channel

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Positions with a * are designated for on-call rotation.
4. Describe the event, emergency classification and position person is called for.

Personnel to report to assigned location for Alert Classification or higher; optional for unusual event.

EMERG. ORGANIZ. POSITION	NOT AVAIL. DATE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ. PAGER CALL # GROUP CALL #	CONTACTED		TIME	WILL BE IN	
						YES	NO		YES	NO
Site Emergency Coordinator (Assigned to TSC)	_____	_____	*1. R.C. Thornberry Plant Manager		_____	_____	_____	_____	_____	_____
	_____	_____	*2. R. Patterson Plant Superintendent		_____	_____	_____	_____	_____	_____
	_____	_____	*3. J. M. Gislon Plant Engineer		_____	_____	_____	_____	_____	_____
	_____	_____	*4. W. B. Kaefer Tech. Asst. to the Plant Mgr.		_____	_____	_____	_____	_____	_____
	_____	_____	5.		_____	_____	_____	_____	_____	_____

1. Insert date person is not available.
 2. Insert date person assumes "on-call" responsibility.
 (Person on call will possess the pager for this position)

NOT FOR PUBLIC DISCLOSURE

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

Notes: Personnel to report to assigned location for Alert Classification or higher; optional for unusual event.

EMERGENCY ORGANIZATION POSITION	NOT AVAIL- ABLE	OR-CALL POS. 2 HOLDER	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ.		TIME	MTH BE TR YES NO
					PAGER CALL #	CONF. CALLED YES NO		
Emergency Operations Coordinator (Assigned to Control Room)	---	---	1. R. Patterson Plant Superintendent					
	---	---	*2. J. A. Sexton Supervisor of Operations					
	---	---	*3. S. R. Fridley General Operating Foreman					
	---	---	*4. W. G. Crockett Sr. Power Prod. Eng. (Operations)					
	---	---	5.					

10/29/82 2 1. Insert date person is not available.
 2. Insert date person assumes "on-call" responsibility.
 (Person on call will possess the pager for this station)

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EMERGENCY ORG. ACTION CALL LIST

09-10297 -0/15/82 (100)

Call Out Instructions:

- 1. Contact one person for each position.
- 2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
- 3. Persons with a * are designated for on-call rotation.
- 4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher; optional for unusual event.

URGENT OPERATION PRIORITY	NOT AVAIL- ABLE	ON-CALL POS. HOLDER	NAME/HON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ. PAGER CALL # GROUP CALL #	CONTACTED YES NO	TIME	WILL BE IN YES NO
Emergency Classification & Recovery Coordinator (Assigned to ISC)			1. J. M. Gitsclon Power Plant Engineer					
			*2. L. F. Womack Sr. Power Production Eng.					
			*3. V. R. Foster Sr. Power Production Eng.					
			*4. R. C. Howe Regular Compliance Eng.					
			*5. E. G. Davis Sr. Power Production Eng.					

NOT FOR PUBLIC DISCLOSURE

- 1. Insert date person is not available.
- 2. Insert date person assumes "on-call" responsibility.
(Person on call will possess the pager for this position)

Call Out Instructions:

1. Contact one person for each position.
 2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
 3. Persons with a * are designated for on-call rotation.
 4. Describe event, emergency classification and position person is called for.
- (Note): Personnel to report to assigned location for Alert Classification or higher; optional for unusual event.

ORG. ORGANIZ. POSITION	NOT AVAIL ABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ. PAGER CALL # GROUP CALL #	CONTACTED		TIME	DATE BE IN	
						YES	NO		YES	NO
Emergency Eaton Coordinator (Assigned to P.C.)	_____	_____	*1. T. J. Martin Training Supervisor			_____	_____	_____	_____	_____
	_____	_____	*2. J. E. Molden Trng. Coord.			_____	_____	_____	_____	_____
	_____	_____	*3. W. F. Steinke Trng. Coord.			_____	_____	_____	_____	_____
	_____	_____	*4. R. Fisher Power Prod. Engineer			_____	_____	_____	_____	_____
	_____	_____	5.			_____	_____	_____	_____	_____

5 1. Insert date person is not available.
 2. Insert date person assumes "on-call" responsibility.
 (Person on call will possess the pager for this position)

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher; optional for unusual event.

EMERG. ORGANIZ. POSITION	NOT AVAIL. ABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ.		CONTACTED		WILL BE IN	
					PAGER CALL #	GROUP CALL #	YES	NO	TIME	YES
Advisor to the County Emerg. Organization (Assigned to EOL)	_____	_____	1. W. B. Kaefer Tech. Asst. to Plant Man	[REDACTED]	_____	_____	_____	_____	_____	_____
	_____	_____	*2. W. J. Keyworth Sr. Pow. Prod. Eng. (Staff)		_____	_____	_____	_____	_____	_____
	_____	_____	*3. T. E. Brake Pow. Prod. Eng. (Staff)		_____	_____	_____	_____	_____	_____
	_____	_____	*4. W. B. Scott Pow. Prod. Eng. (Staff)		_____	_____	_____	_____	_____	_____
	_____	_____	5.		_____	_____	_____	_____	_____	_____

FOOTNOTES: 1. Insert date person is not available.
 2. Insert date person assumes "on-call" responsibility.
 (Person on call will possess the pager for this position)

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher; optional for unusual event.

EMERG. ORGANIZATION POSITION	NOT AVAILABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ. PAGER CALL # GROUP CALL #	CONTACTED		TIME	WILL BE IN	
						YES	NO		YES	NO
Emergency Maintenance Coordinator (Assigned to ISC)	_____	_____	*1. D. A. Backens Supervisor of Maintenance		_____	_____	_____	_____	_____	_____
	_____	_____	*2. D. B. Miklush Asst. Maint. Supv.		_____	_____	_____	_____	_____	_____
	_____	_____	*3. R. Nanninga Sr. Pow. Prod. Eng. (Maint.)		_____	_____	_____	_____	_____	_____
	_____	_____	4. W. R. Ryan Gen. Maing. Foreman		_____	_____	_____	_____	_____	_____
	_____	_____	5.		_____	_____	_____	_____	_____	_____

NOTE: 1) Stop call out at this point for the Unusual Event Classification, continue for high classification. Determine if the Site Emergency Coordinator requires additional personnel.

Operations Support Center Supervisor Request the Emergency Maintenance Coordinator to assign a maintenance foreman as OSC support center supervisor.

1. Insert date person is not available.
2. Insert date person assumes "on-call" responsibility. (Person on call will possess the pager for this item)

NOT FOR PUBLIC DISCLOSURE

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

EMERG. ORGANIZ. POSITION	NOT AVAIL ¹ ABLE	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ.		CONTACTED		WILL BE IN		
					PAGER CALL #	GROUP CALL #	YES	NO	TIME	YES	NO
Site Chemistry & Radiation Production Coordinator (Assigned to Access Control)	_____	_____	1. H.W.C. Fong Chem & Rad Prot. Eng.		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*2. M. J. Peterson		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*3. J. R. Knemeyer Chem & Rad Prot. Eng.		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*4. D. R. Clifton Chem & Rad Prot. Foreman		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*5. R. S. Snyder Chem & Rad Prot. Foreman		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*6. L. Vulchev Chem & Rad Prot. Foreman		_____	_____	_____	_____	_____	_____	_____

FOOTNOTES: 1. Insert date person is not available.
 2. Insert date person assumes "on-call" responsibility.
 (Person on call will possess the pager for this position)

NOT FOR PUBLIC DISCLOSURE

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

RULE: Personnel to report to assigned location for Alert Classification or higher.

EMERG. ORGANIZ. POSITION	NOT AVAIL. ABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ.		CONTACTED		WILL BE IN		
					PAGER CALL #	GROUP CALL #	YES	NO	TIME	YES	NO
Out-of-Plant Monitoring & In-Plant Chemistry & Radiation Protection Personnel (Six assigned to mobil van garage; six assigned to plant)	---	(No on- call person for this position)	1. D. R. Clifton Chem & Rad Prot. Foreman								
	---		2. R. S. Snyder Chem & Rad. Prot. Foreman								
	---		3. L. A. Vulchev Chem & Rad Prot. Foreman								
	---		4. H. W. C. Fong Chem & Rad Prot. Eng.								
	---		5. J. R. Knemeyer Chem & Rad. Prot. Eng.								
	---		6. W. A. O'Hara Sr. Chem & Rad. Prot. Eng.								

- NOTE:
- A. Request a minimum of six personnel for initial Off-Site Monitoring Teams.
 - B. Request a minimum of six C&RP Personnel for in-plant monitoring and chemistry.
 - C. A minimum of two of the above personnel are "on-call" as Emergency Radiological Advisor or site Chemistry and Radiation Protection Coordinator.

DC0075 10 1. Insert date person is not available.

NOT FOR PUBLIC DISCLOSURE

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

EMERG. ORGANIZ. POSITION	NOT AVAIL ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/PLANT PHONE	H/P FREQ.		CONTACTED		WILL BE IN	
					PAGER CALL #	GROUP CALL #	YES	NO	TIME	YES
TSC/EOF Clerical Assistance	---	(No on-call person for this position)	1. J. L. Shearer Office Supervisor	[REDACTED]	---	---	---	---	---	---
	---		2. J.C. Ferrari Asst. Office Supervisor		---	---	---	---	---	
	---		3. C.D. Wooten Asst. Office Supervisor		---	---	---	---	---	
	---		4. M.A. Huff First Plant Clerk		---	---	---	---	---	
	---		5.		---	---	---	---	---	
	---		6.		---	---	---	---	---	

NOTE: Request supervisor to dispatch three (3) clerks to the TSC and two (2) clerks to the EOF.

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.


JOB NO. ORGANIZ. POSITION	NOT AVAIL- ABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ.		CONTACTED	TIME	WILL BE IN	
					PAGER CALL #	GROUP CALL #			YES	NO
Interim LOF-EARS Operator (Assigned to it)	---	(No on- call person for this position)	1. W. B. Scott Pwr. Prod. Eng. (Staff)	[---	---	---	---
	---		2. D. R. Unger Chem and Rad Prot. Engr.					---	---	---
	---	3.					---	---	---	---
	---	4.					---	---	---	---
	---	5.					---	---	---	---

1. Insert date person is not available.

Callout Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

ORGANIZATION POSITION	NOT AVAILABLE	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ.		CONTACTED	TIME	WILL BE IN	
					PAGER CALL #	GROUP CALL #			YES	NO
Internal Operations and Analytical Recovery Manager (Assigned to FBI)	---	(No On-call person for this position)	1. W. T. Rapp Sr. Nuclear Gen. Engr.				---	---	---	---
	---		2. K. C. Doss Sr. Nuclear Gen. Engr.				---	---	---	---
	---		3.				---	---	---	---
	---		4.				---	---	---	---
	---		5.				---	---	---	---

00075 14 1. Insert date person is not available.

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

EMERGENCY ORG. ORGANIZATION POSITION	NOT AVAILABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	PAGER CALL # GROUP CALL #	CONTACTED		TIME	WILL BE IN	
						YES	NO		YES	NO
Interim Public Information Director (Assigned to TOF)	---	(Both personnel carry pagers)	1. Sue Brown Public Information	(Home) (PG&E)		---	---	---	---	---
	---		2. George Sarkison Public Information	(Home) (PG&E)		---	---	---	---	---
	---		3. Pam Zweifel Manager, CATF	(Home) (PG&E)		---	---	---	---	---
	---		4.			---	---	---	---	---
	---		5.			---	---	---	---	---

NOTE: 1. Insert date person is not available.

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

EMERGENCY ORGANIZATION POSITION	NOT AVAILABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/PLANT PHONE	H/P FREQ.		CONTACTED	TIME	WILL BE IN	
					PAGER CALL #	GROUP CALL #			YES	NO
Technical Advice to the Public Information Recovery Manager (Assigned to EGF)	_____	(No On-Call Person for this position)	1. W. J. Keyworth Sr. Pow. Prod. Eng. (Staff)		_____	_____	_____	_____	_____	_____
	_____		2. T. E. Brake Pow. Prod. Eng. (Staff)		_____	_____	_____	_____	_____	_____
	_____		3.		_____	_____	_____	_____	_____	_____
	_____		4.		_____	_____	_____	_____	_____	_____
	_____		5.		_____	_____	_____	_____	_____	_____

1. Insert date person is not available.

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Describe event, emergency classification and position person is called for.

Alert Personnel to report to assigned location for Alert Classification or higher.

Position	NOT AVAILABLE	OR-CALL POS. 2 HOLDER	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	PAGER CALL # GROUP CALL #	CONTINUED YES NO	TIME	WILL U.F. IN YES NO
Mobile Environmental Monitoring Laboratory Operator	—	(Personnel rotate pager as required)	1. Roland Richardson Dept. of Engr. Research					
	—		2. Mike Kunde Dept. of Engr. Research					
	—		3.					
	—		4.					
	—		5.					

NOTE: These personnel also may be contacted by mobile radio in their assigned company cars--use H.P. frequency.

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

EMERGENCY ORGANIZATION POSITION	NOT AVAILABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ. PAGER CALL # GROUP CALL #	CONTACTED		TIME	WILL BE IN		
						YES	NO		YES	NO	
EAMS Operator TSC (Assigned to TSC)	_____	_____	*1. Martin Mak Chem & Rad Prot. Analyst			_____	_____	_____	_____	_____	_____
	_____	_____	*2. J. N. Johnson Chem & Rad Prot. Analyst			_____	_____	_____	_____	_____	_____
	_____	_____	*3. R. H. Garacci Chem & Rad Prot. Analyst			_____	_____	_____	_____	_____	_____
	_____	_____	4.			_____	_____	_____	_____	_____	_____
	_____	_____	5.			_____	_____	_____	_____	_____	_____

FOOTNOTES: 1. Insert date person is not available.
 2. Insert date person assumed "on-call" responsibility.
 (Person on call will possess the pager for that position)

NOT FOR PUBLIC DISCLOSURE

EMERGENCY ON-DEUTATION CALL LIST

10/15/82 (100)

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

EMERGENCY ORGANIZATION POSITION	NOT AVAILABLE	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/PLANT PHONE	H/P FREQ. PAGER CALL # GROUP CALL #	CONTACTED YES NO	TIME	WILL BE IN YES NO
Emergency PERSON (Assigned to USC)	_____	_____	1. J. E. Molden Trng. Coord.	_____	_____	_____	_____	_____
	_____	_____	*2. J.R. Tinlin Asst. Trng. Coord	_____	_____	_____	_____	_____
	_____	_____	*3. R.F. Sargent Asst. Trng. Coord.	_____	_____	_____	_____	_____
	_____	_____	*4. R.L. Graham Asst. Trng. Coordinator	_____	_____	_____	_____	_____
	_____	_____	*5.	_____	_____	_____	_____	_____
	_____	_____	*6.	_____	_____	_____	_____	_____

10/15/82 191 1. Insert date person is not available.
 2. Insert date person assumed "on-call" responsibility.
 (Person on call will possess the pager for this position)

NOT FOR PUBLIC DISCLOSURE

Call out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher; optional for unusual event.

EMERG. ORGANIZATION POSITION	NOT AVAILABLE	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ.		MTH	BI	TH
					FAXER CALL #	GROUP CALL #			
Emergency Division Assigned #2 (Assigned to ESC)	_____	_____	1. W. F. Steinke Trng. Coord.	_____	_____	_____	_____	_____	_____
	_____	_____	*2. R. H. Bliss Sr. Pow. Prod. Eng. (Train.)	_____	_____	_____	_____	_____	_____
	_____	_____	*3. A. I. Dame Training Specialist	_____	_____	_____	_____	_____	_____
	_____	_____	*4.	_____	_____	_____	_____	_____	_____
	_____	_____	*5. T. E. Niemi Training Specialist	_____	_____	_____	_____	_____	_____
	_____	_____	*6.	_____	_____	_____	_____	_____	_____

NOTE: 1. Insert date person is not available.
 2. Insert date person assumed "on-call" responsibility.
 (Person on call will possess the pager for _____ position)

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher; optional for unusual event.

JOB TITLE POSITION	NOT AVAIL- ABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ. PAGER CALL # GROUP CALL #	CONTACTED		TIME	WILL BE IN	
						YES	NO		YES	NO
Data Processor No. 1 (Assigned to TSC)	_____	_____	1. L. F. Womack Sr. Pwr. Prod. Eng. (Computer)			_____	_____	_____	_____	_____
	_____	_____	*2. D. A. Remington Pwr. Prod. Eng. (Computer)			_____	_____	_____	_____	_____
	_____	_____	*3. T. Black Pwr. Prod. Eng. (Computer)			_____	_____	_____	_____	_____
	_____	_____	*4. J. D. Brady Pwr. Prod. Eng. (Planning)			_____	_____	_____	_____	_____
	_____	_____	*5. G. V. Johnson Engineering Trainee (Computer)			_____	_____	_____	_____	_____
	_____	_____	*6.			_____	_____	_____	_____	_____

DC0075 211 1. Insert date person is not available.
 2. Insert date person assumed "on-call" responsibility.
 (Person on call will possess the pager for this position)

NOT FOR PUBLIC DISCLOSURE

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher; optional for unusual event.

EMERGENCY ORGANIZATION POSITION	NOT AVAIL. ABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ.		CONTACTED		TIME	WILL BE IN	
					PAGER CALL #	GROUP CALL #	YES	NO		YES	NO
Data Processor No. 2 (Assigned to ISC)	_____	_____	1. V. R. Foster Sr. Pow. Prod. Eng.		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*2. J. K. Bigelow Pow. Prod. Eng. (Nuclear)		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*3. W. E. Vidalin Pow. Prod. Eng. (Nuclear)		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*4. K. Wallace Pow. Prod. Eng. (Nuclear)		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*5. R. M. Lockett Pow. Prod. Eng. (Nuclear)		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*6.		_____	_____	_____	_____	_____	_____	_____

EG-10297-221 1. Insert date person is not available.
 2. Insert date person assumed "on-call" responsibility.
 (Person on call will possess the pager for ' ' position)

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

ORGANIZ. POSITION	NOT AVAIL. ABLE	OH-CALL POS. HOLDER ²	NAME/HON-EMERGENCY TITLE	HOME PHONE/PLANT PHONE	H/P FREQ. PAGER CALL # GROUP CALL #	CONTACTED Y/N	NO	TIME	Y/N	NO	WILL BE IN	
Plant Processor Bo. 1 (Assigned to TSC)	_____	(No On-Call Person for this position)	1. E. G. Davis Sr. Pwr. Prod. Engr.			_____	_____	_____	_____	_____	_____	_____
	_____		2. Y. H. Yip Pwr. Prod. Eng. (Nuclear)			_____	_____	_____	_____	_____	_____	_____
	_____		3. W. A. Ginter Pwr. Prod. Eng. (Nuclear)			_____	_____	_____	_____	_____	_____	_____
	_____		4. R. C. Howe Pwr. Prod. Eng. (Compliance)			_____	_____	_____	_____	_____	_____	_____
	_____		5.			_____	_____	_____	_____	_____	_____	_____

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

DEPT. ORGANIZ. POSITION	NOT AVAIL ¹ ABLE	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ. PAGER CALL # GROUP CALL #	CONTACTED		TIME	WILL BE IN	
						Y	N		Y	N
Instrument Maintenance Coordinator (Assigned to I&C)	_____	_____	1. R. J. Kosmala Asst. PPE, I & C	[REDACTED]		_____	_____	_____	_____	_____
	_____	_____	2. D. D. Malone Sr. I&C Supervisor			_____	_____	_____	_____	
	_____	_____	*3. N. A. Regoli I&C Supervisor			_____	_____	_____	_____	
	_____	_____	*4. M. W. Stephens Instrument Foreman			_____	_____	_____	_____	
	_____	_____	*5. J. M. Rappa Instrument Foreman			_____	_____	_____	_____	
	_____	_____	*6. R. J. Tucker Instrument Foreman			_____	_____	_____	_____	

DC0075 24 1. Insert date person is not available.
 2. Insert date person assumed "on-call" responsibility.
 (Person on call will possess the pager for the position)

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

Note: Personnel to report to assigned location for Alert Classification or higher.

EMERG. ORGANIZ. POSITION	NOT AVAIL ¹ ABLE	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ. PAGER CALL # GROUP CALL #	CONTACTED		TIME	WILL BE IN	
						YES	NO		YES	NO
Electrical Maintenance Coordinator (Assigned to O.C)	_____	_____	*1. D. L. Bauer Pow. Prod. Eng. (Elec.)	[Redacted]	[Redacted]	_____	_____	_____	_____	_____
	_____	_____	*2. G. M. Zocher Electrical Foreman			_____	_____	_____	_____	
	_____	_____	*3. A. M. Aquino Electrical Foreman			_____	_____	_____	_____	
	_____	_____	4.			_____	_____	_____	_____	
	_____	_____	5.			_____	_____	_____	_____	

NOV 75 25 1. Insert date person is not available.
 2. Insert date person assumed "on-call" responsibility.
 (Person on call will possess the pager for this position)

NOT FOR PUBLIC DISCLOSURE

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

EMERG. ORGANIZ. POSITION	NOT AVAIL. ABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE / PLANT PHONE	H/P FREQ.		CONTACTED		TIME	WILL BE IN	
					PAGER CALL #	GROUP CALL #	YES	NO		YES	NO
Mechanical Maintenance Coordinator (Assigned to OSC)	_____	_____	*1. J. W. Large Pow. Prod. Eng. (Mech.)	[REDACTED]	_____	_____	_____	_____	_____	_____	_____
	_____	_____	*2. D. A. Green Mechanical Foreman		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*3. B. Cotton Mechanical Foreman		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*4. J. D. Albers Mechanical Foreman		_____	_____	_____	_____	_____	_____	_____
	_____	_____	*5. J. E. Strahl Mechanical Foreman		_____	_____	_____	_____	_____	_____	_____

1. Insert date person is not available.
 2. Insert date person assumed "on-call" responsibility.
 (Person on call will possess the pager for the position)

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person
3. Persons with a * are designated for on-call rotation.
4. Describe event, emergency classification and position person is called for.

NOTE: Personnel to report to assigned location for Alert Classification or higher.

EMERG. ORGANIZ. POSITION	NOT AVAILABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ.		CONTACTED	TIME	WILL BE IN	
					PAGER CALL #	GROUP CALL #			YES	NO
Radiological Data Processor (Assigned to TSC)	---	(No On-Call Person for this position)	1. A. O. Taylor Chem & Rad. Prot. Engr.	[Redacted]			---	---	---	---
	---		2. D. R. Unger Chem & Rad. Prot. Engr.				---	---	---	---
	---		3.				---	---	---	---
	---		4.				---	---	---	---
	---		5.				---	---	---	---

Call Out Instructions:

1. Contact one person for each position.
2. Contact first listed available person (preferred position holder); if unavailable, contact the next available person.
3. Persons with a * are designated for on-call rotation.
4. Before the event, emergency classification and position person is called for.

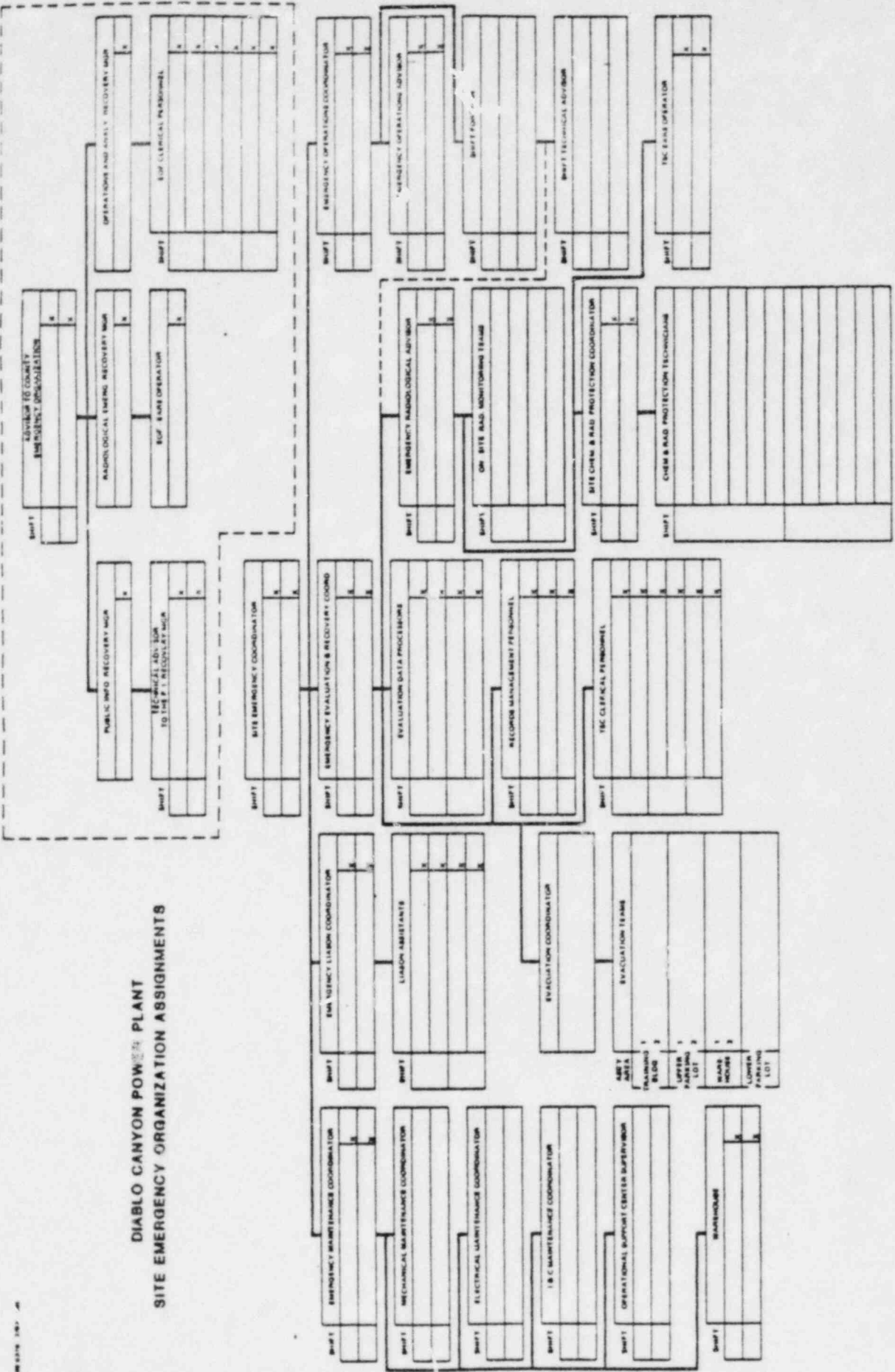
NOTE: Personnel to report to assigned location for Alert Classification or higher.

EMERG. ORGANIZ. POSITION	NOT AVAIL- ABLE ¹	ON-CALL POS. HOLDER ²	NAME/NON-EMERGENCY TITLE	HOME PHONE/ PLANT PHONE	H/P FREQ.		CONTACTED		WILL BE IN	
					PAGER CALL #	GROUP CALL #	YES	NO	TIME	YES
Records Management (Assigned to FCC)	---	(No On- Call Person for this Position)	1. C. Leon Meyers Records Analyst				---	---	---	---
	---		2. L. Yamaguchi Records Analyst				---	---	---	---
	---		3. D. S. Rivkin Document Control Supv.				---	---	---	---
	---		4.				---	---	---	---
	---		5.				---	---	---	---

NOTE: Call Security Shift Supervisor and provide a list of personnel coming onsite when callout is complete.

DD0075 78 1. Insert date person is not available.

PLANT EMERGENCY OPERATIONS FACILITY PERSONNEL



DIABLO CANYON POWER PLANT
SITE EMERGENCY ORGANIZATION ASSIGNMENTS

DIABLO CANYON POWER PLANT
PROCEDURE ON-THE-SPOT CHANGE

Procedure No. EP M-1 Rev. 57 Unit No. 1 2 1 & 2

Title Employee Injury (Non Radiological)

Type of Change: PERMANENT (green) TEMPORARY (yellow); Expiration Date _____

Requesting Department Technical Assistant Originator W.J. Kenworth

Proposed Change: (Does this alter the intent of original procedure?) Yes No

(Does it constitute an unreviewed safety/environmental question?) YES NO

Appendix Z - pg 1 of 1

item d:

Revise Mr. W.H. Fujimoto's home phone number
from (415) 799-5687
to (415) 799-5080

ORIGINATOR

Reason for Change:

Change in phone number

Authorizations:

[Signature] (Plant Management Staff) W.B. Karper (Plant Management Staff w/SFO License) 10/6/82 Date

Immediate distribution to the Control Room and affected work areas required? YES NO

Initial Distribution By: _____

Distributed To: Control Room Others _____

DOCUMENT CONTROL

Date Received by Document Control 10/6/82

PSRC Review and Plant Manager's approval no later than 10/20/82 Date above *plus 14 days

PSRC POST CHANGE REVIEW

Review Date _____

PSRC recommends approval Yes No

Plant Manager's Approval N/A

Meeting Number -

LOG

Follow-up To Rejected On-the-Spot Change Additional Information

Action Taken/Remarks: _____

REQ DE

DISTRIBUTION:

Same as Original Procedure Distribution

Others _____

Please see additional sheets

DIABLO CANYON POWER PLANT
PROCEDURE ON-THE-SPOT CHANGE

Procedure No. EP M-2 Rev. 56 Unit No. 1 2 1 & 2
Title Injury To Nonemployee (Third Party)

Type of Change: PERMANENT (green) TEMPORARY (yellow); Expiration Date _____
Requesting Department Technical Assistant Originator W. J. Keyworth

Proposed Change: (Does this alter the intent of original procedure?) Yes No
(Does it constitute an unreviewed safety/environmental question?) YES NO

Appendix Z - ps 1 of 1
item d:

Revise Mr. W. H. Fujimoto's home phone number
from (415) 799-5687
to (415) 799-5080

ORIGINATOR

Reason for Change:

Change in phone number

Authorizations: [Signature] W. B. Kaufman 10/6/82
(Plant Management Staff) (Plant Management Staff w/SFO License) (Date)

Immediate distribution to the Control Room and affected work areas required? YES NO Initial Distribution By:
Distributed To: Control Room Others

DOCUMENT CONTROL
Date Received by Document Control 10/6/82
PSRC Review and Plant Manager's approval no later than 10/20/82 Date above *plus 14 days

PSRC POST CHANGE REVIEW
Review Date _____
PSRC recommends approval Yes No
Meeting Number -
Plant Manager's Approval N/A

Follow-up To Rejected On-the-Spot Change Additional Information
Action Taken/Remarks:

REQ. DEP.

CURRENT
EMERGENCY PLAN
IMPLEMENTING PROCEDURES

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EF-3	Activation of the Emergency Operations Facility	1
EF-4	Activation of MEML	0
EF-5	Emergency Equipment, Instruments & Supplies	1
EF-6	Operating Procedures for EARS 9845C Controlling Stations	1
EF-7	Activation of the Nuclear Data Communications Systems	1
EF-8	EARS Operating Procedures for TSC-CC HP-1000 Station	0
RB-1	Personnel Dosimetry	Not Issued
RB-2	Emergency Exposure Guides	0
RB-3	Stable Iodine Thyroid Blocking	0
RB-4	Access to & Establishment of Controlled Areas Under Emergency	0
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RB-9	Calculation of Release Rate & Integrated Release	0
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DEPARTMENT OF NUCLEAR PLANT OPERATIONS

DATE 9/9/82

DIABLO CANYON POWER PLANT UNIT NO(S) 1 AND 2

PAGE 1 OF 4

EMERGENCY PROCEDURE
TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY
OPERATIONS FACILITY

APPROVED: _____

PLANT MANAGER

DATE

SCOPE

This procedure describes the actions to be taken in the event it becomes necessary to activate and operate the Emergency Operations Facility (EOF). The EOF is considered to include all facilities provided by PG&E at the San Luis Obispo County Sheriff's Complex, including the EOF, UDAC, other office trailers and the Media Center.

GENERAL

The principal purpose of the EOF is to provide a location for management of overall emergency response and facilitate the coordination of emergency response activities between PG&E, county, state and federal agencies. The EOF is co-located with the San Luis Obispo County Emergency Operations Center (EOC). The EOF serves as the headquarters for the Recovery Manager in directing emergency response and recovery efforts. The EOF/EOC provides a central point of data assessment for PG&E, federal, state and local agencies. It also serves as a centralized location for dissemination of information to the public.

INITIATING CONDITIONS

The criteria for activating the EOF will be, but is not limited to the declaration of an Alert, Site Area, or General Emergency as defined in EP G-1, "Accident Classification and Emergency Plan Activation".

IMMEDIATE ACTIONS

1. Upon declaration of an Alert, Site Area, or General Emergency at the Diablo Canyon Power Plant, the Shift Foreman shall assume the duties of the Site Emergency Coordinator and shall notify personnel to staff the EOF in accordance with EP G-3, "Notification of Offsite Emergency Organizations" and EP G-2, "Establishment of the Onsite Emergency Organization".

Note: The Recovery Manager shall notify the corporate emergency organization in accordance with Procedure 1.1 of the Corporate Emergency Response Plan following his notification.

DIABLO CANYON POWER PLANT UNIT NO(S) 1 AND 2

NUMBER EF J
REVISION 1
DATE 9/9/82
PAGE 2 OF 4

TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY
OPERATIONS FACILITY

SUBSEQUENT ACTIONS

1. Plant personnel assigned to the EOF shall activate the EOF by first notifying the officer on duty at the San Luis Obispo Sheriff's Dispatch Center, that the EOF is to be activated, and then proceeding with their activation checklist.
2. EOF equipment shall be checked or placed in an operational status by the initial person arriving at the EOF, in accordance with Form 69-10781-1 "EOF Initial Activation Checklist".
3. Plant personnel assigned to the EOF will continue to their assigned duties until relieved by corporate EOF Personnel, or dismissed by the Site Emergency Coordinator. Personnel relieved may be re-assigned to other emergency response functions, or may provide backshift coverage of corporate EOF functions, as needed.
4. If an event is classified as an Alert, the Advisor to the County Emergency Organization should determine if corporate EOF personnel are proceeding to the EOF, and if not, arrangements to provide relief plant personnel at the EOF may be needed.
5. If informed that additional state and/or federal personnel will be arriving, refer to Form 69-10782 "EOF Auxiliary Trailer Call Out List" for the required personnel to move the trailers into position. The door key to all three trailers is located in a "Hide-A-Key" box in the recovery managers desk.

SUPPORTING PROCEDURES

- G-1, "Accident Classification and Emergency Plan Activation"
- G-2, "Establishment of the Onsite Emergency Organization"
- G-3, "Notification of Offsite Organizations"
- EP EF-6 "Activation of the Emergency Assessment and Response System"
- EP EF-7 "Activation of the Nuclear Data Communications System"

FIGURES

1. Organization Chart

DIABLO CANYON POWER PLANT UNIT NO(S) 1 AND 2

NUMBER cF-3
REVISION 1
DATE 9/9/82
PAGE 3 OF 4

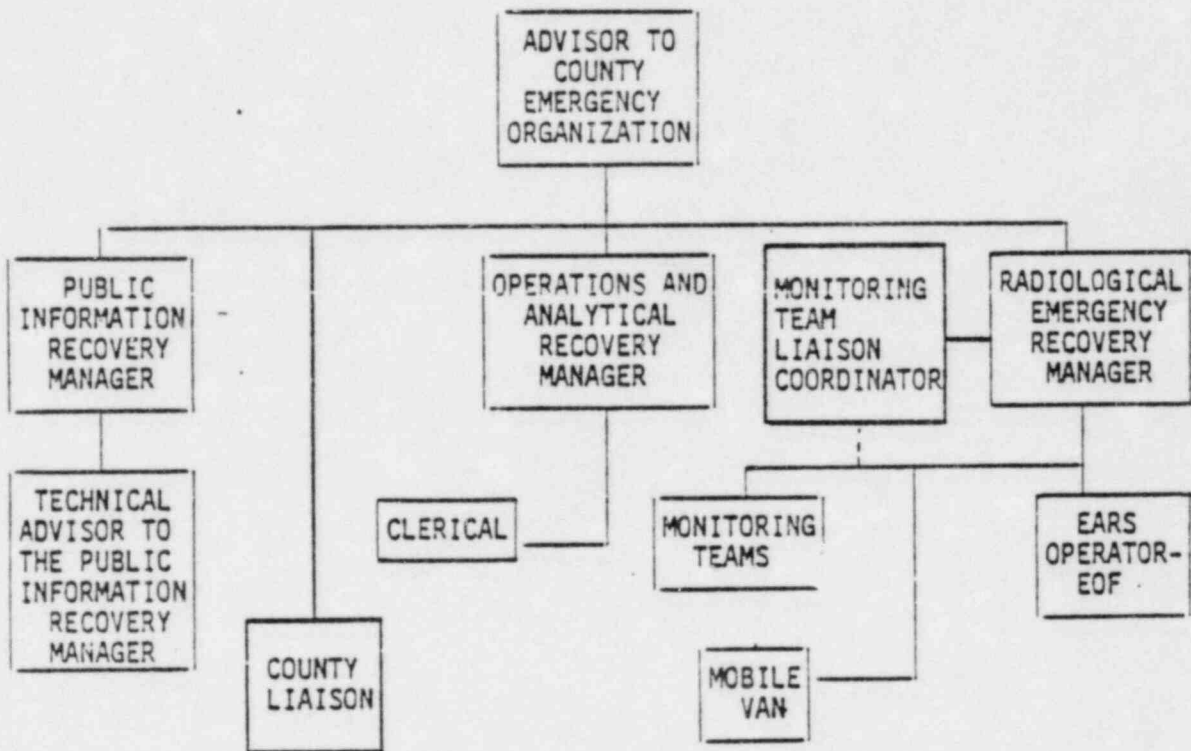
TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY
OPERATIONS FACILITY

ATTACHMENTS

1. 69-10781-1 EOF Initial Activation Checklist
2. 69-10781-2 EOF Activation Checklist for the Advisor to the County
Emergency Organization.
3. 69-10781-3 EOF Activation Checklist for the Interim Radiological
Recovery Manager.
4. 69-10781-4 EOF Activation Checklist for the Interim EARS
Operator.
5. 69-10781-5 EOF Activation Checklist for the Interim Operations
and Analytical Recovery Manager.
6. 69-10781-6 EOF Activation Checklist for the Interim Public
Information Recovery Manager.
7. 69-10781-7 EOF Activation Checklist for the Technical Assistant
to the Public Information Recovery Manager.
8. 69-10781-8 EOF Auxiliary Trailer Call Out List.

TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY

FIGURE 1
INTERIM EOF ORGANIZATION



-----Indicates Communication Channel

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DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2

TITLE: EOF INITIAL ACTIVATION CHECKLIST

1. Check for adequate fuel supply in emergency diesel generator.
2. Check circuit breakers. (All breakers on except 50 Amp).
3. In communications Room, switch the DC circuit breakers NOS 1-13 to the on position.
4. Switch on the Panafax machine and the copier.
5. Set the heat pump switch on the thermostat to the auto position and the thermostat to comfortable setting.
6. Check operability of alarming count rate meter in RERM's office.

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 DEPARTMENT OF NUCLEAR OPERATIONS
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TITLE: EOF ACTIVATION CHECKLIST
 FOR THE ADVISOR TO THE COUNTY EMERGENCY ORGANIZATION (ACEO)

1. If you are the initial person at the EOF, see Form 69-10781-1, "EOF Initial Activation Checklist", first.
2. Use the recovery manager's office.
3. Establish manning status of EOF (use Figure 2, Interim EOF Organization).
4. Contact shift clerk for callout status of positions not yet filled.
5. Call out any additional EOF personnel required, the County Liaison and the Monitoring Team Liaison Coordinator will require callout if not already done.
6. Contact the Liaison Coordinator at the TSC
 - a. Provide status of EOF activation and provide names and positions of personnel at the EOF.
 - b. Determine nature of emergency.
 - c. Determine general plant status.
 - d. Request copies of notification and data forms via Panafax (EOF Panafax PT&T).

If the TSC is not yet functional - call the control room liaison coordinator .
7. Contact the corporate Liaison coordinator at CIRC
 - a. Provide status of EOF activation and provide names and positions of personnel at the EOF.
8. Get emergency information updates from the RERM and OARM.
9. Contact the Site Emergency Coordinator at the TSC and obtain permission to brief the county emergency organization and assume responsibility for updating the county EOC/UDAC.

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10. Contact county personnel at the EOC and UDAC (use county liaison as needed).
 - a. Provide status of EOF activation.
 - b. Provide briefing on plant status.
 - c. Inform them that updates are to be provided through the EOF, and information to the sheriff's dispatch office will cease.

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TITLE: EOF ACTIVATION CHECKLIST FOR THE INTERIM
RADIOLOGICAL RECOVERY MANAGER (RERM)

1. If you are the initial person at the EOF, see Form 69-10781-1, "EOF Initial Activation checklist," first.
2. Use the RERM's office.
3. Check manning status for EARS operator, field terms, and field team liaison coordinator, and assist in filling positions as needed.
4. Establish contact with emergency radiological advisory (ERA) in the TSC.
 - a. Provide status of EOF activation and provide names and positions of personnel at the EOF.
 - b. Determine nature of emergency.
 - c. Determine general plant status.
 - d. Obtain the available information on radiological conditions.
If the TSC is not yet functional, call the interim emergency evaluations and recovery coordinator (STA)
5. Report status to the Advisor to the County Emergency Organization (ACEO).
6. Establish contact with UDAC under direction from the AECO.
7. Establish contact with the field teams at the MEML garage or through the service center
8. Direct field teams as required. Coordinate these activities with the ERA.
9. Provide radiological data to the clerk for distribution as required, using forms found in Emergency Procedure G-3. Brief the AECO and UDAC as needed.
10. Evaluate plant radiological conditions and provide status and recommendations to the ACEO as required.

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TITLE: EOF ACTIVATION CHECKLIST FOR THE INTERIM
EARS OPERATOR

1. If you are the initial person at the EOF, see Form 69-10781-1, "EOF Initial Activation Checklist," first.
2. Contact EARS operator in TSC If the TSC is not yet functional, call the interim emergency evaluations and recovery coordinator (STA)
3. Activate EARS equipment as per Emergency Procedure EF-6, "Activation of the Emergency Assessment and Response System."
4. Provide assistance to RERM as required in obtaining additional personnel, radiological calculations, contacting field teams, etc.

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TITLE: EOF ACTIVATION CHECKLIST FOR THE INTERIM
OPERATIONS AND ANALYTICAL RECOVERY MANAGER (OARM)

1. If you are the initial person at the EOF, see Form 69-1078-1, "EOF Initial Activation Checklist," first.
2. Contact Shift Clerk to determine clerk call out status, if clerks are not yet available.
3. Activate Nuclear Data Communications System (NDCS) terminal as per Emergency Procedure EF-7, "Activation of the Nuclear Data Communications System."
4. Contact data processor in the TSC and provide status of the NDCS terminal.
5. Call the liaison coordinator in the TSC and inform that you are ready to receive plant data.
6. Report status to the ACEO.
7. Have a clerk distribute radiological and plant data sheets as they become available, using forms found in Emergency Procedure G-3. Provide briefings to the AECO as needed.
8. Have a clerk maintain chronological status on poster board on north wall of operations office, in addition to the plant and radiological status boards.

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TITLE: EOF ACTIVATION CHECKLIST FOR THE INTERIM
PUBLIC INFORMATION RECOVERY MANAGER (PIRM)

1. Contact the Technical Advisor to the PIRM and have him brief you on emergency status. Begin preparation of a news bulletin as soon as sufficient information is available. (Refer to Emergency procedure OR-2, "Release of Information to the Public).
2. Contact additional PGandE local public information personnel to assist if not already done.
3. Establish communications with the county public information organization.
4. Determine plans for contacting the news media.
5. Contact the corporate public information coordinator and provide status and media contact plans.
6. Participate in media as per Emergency Procedure OR-2.

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DEPARTMENT OF NUCLEAR OPERATIONS
DIABLO CANYON POWER PLANT, UNIT NOS. 1 AND 2

TITLE: EOF ACTIVATION CHECKLIST FOR THE TECHNICAL
ADVISOR TO THE PIRM

1. If you are the initial person at the EOF, see Form 69-10781-1, "EOF Initial Activation Checklist," first.
2. Contact and be briefed by the RERM and the OARM.
3. Determine plant status.
4. Contact the liaison coordinator in the TSC [] to clarify details if necessary.
5. Assist PIRM in preparing news releases, contacting personnel, and supporting the county news organization in news releases as per Emergency Procedure OR-2, "Release of Information to the Public."

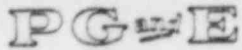
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TITLE: AUXILIARY TRAILER CALL OUT LIST

Call Out Instructions:

1. Contact only one person.
2. Contact first listed available person (preferred position holder); if unavailable, contact next available person.

- | | | |
|----|---------------|-------------------------------|
| 1. | A.G. Callahan | Company Phone:
Home Phone: |
| 2. | John Zeagler | Company Phone:
Home Phone: |
| 3. | Ron Large | Company Phone:
Home Phone: |



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DEPARTMENT OF NUCLEAR PLANT OPERATIONS

DIABLO CANYON POWER PLANT UNIT NO(S) 1 AND 2

EMERGENCY PROCEDURE

TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

APPROVED:

R. Patterson
PLANT MANAGER

10/15/82
DATE

SCOPE

This procedure describes the activation of the Nuclear Data Communications Systems (NDCS) in the event the Technical Support Center (TSC), Corporate Incident Response Center (CIRC), and Emergency Operations Facility (EOF) are activated.

GENERAL

The NDCS is located in the TSC, Administration Building (ADMIN), EOF, and CIRC. Each of these facilities, except the EOF, has similar computer equipment to be used for data communications during an ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY at the Diablo Canyon Power Plant and also for day-to-day data processing. It should be noted that the NDCS network, except at the EOF, will be in continuous operation 24 hours per day. Plant data from Unit 1 and Unit 2 is continuously sent to each facility's NDCS processor for storage on disk and retrieval upon demand. The EOF has a keystation and matrix printer for plant data retrieval and trending.

Plant data is stored at each facility on one disk file. At any given time, the maximum plant data storage on disk will be 24 hours.

Upon activation of the TSC, the Emergency Evaluations and Recovery Coordinator (EERC) or his designated representative is responsible to assure that the TSC NDCS is activated and operational. The EERC is also responsible for verification of the Administration Building NDCS, archiving the present PDFILE, and activating the communications link between the CIRC and the ADMIN NDCS in the event the TSC NDCS becomes inoperable. The Advisor to the County Emergency Organization or the Operations and Analytical Recovery Manager is responsible for activation of the EOF keystation and matrix printer. The NDCS located in the CIRC is activated by the General Office Nuclear Safety and Engineering staff.

Plant data transmitted by the NDCS will be used by the Site Emergency Coordinator, Recovery Manager, and their staffs to provide technical direction, coordination, and control of the recovery effort.

DIABLO CANYON POWER PLANT UNIT NO(S) 1 AND 2

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TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

INITIATING CONDITIONS

The Shift Foreman declares that the plant is in an ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY status as defined in Emergency Procedure G-1, "Accident Classification and Emergency Plan Activation," and initiates those activities necessary to activate and staff the TSC and EOF, as required.

ACTIVATION OF THE TSC NDCS

1. In the TSC, the Emergency Evaluations and Recovery Coordinator or his designee shall:
 - a. Verify or accomplish the following on the TSC NDCS equipment:
 - 1) Processor "SYSTEM POWER" switches "ON" (located in back of processor).
 - 2) Processor "ON-OFF" pushbutton in.
 - 3) Control console "POWER" switch "ON."
 - 4) Control console "LINE/LOCAL" switch on "LINE."
 - 5) Disk: "READY" light on.
 - 6) Disk: "CLEAR FAULT" pushbutton light off.
 - 7) Disk: "WRITE PROTECT" pushbutton light off.
 - 8) Control console matrix printer "POWER" pushbutton light on.
 - 9) Control console matrix printer "SELECT" pushbutton light on.
 - 10) Control console matrix printer "OFF LINE" switch in "MODE 1" (located on rear of printer).
 - 11) For each line printer, "POWER SWITCH" is "ON" (located on rear of printer).
 - 12) For each line printer, depress the "ON" and "RUN" pushbutton.
 - 13) For each keystation "0 1" switch in "1".

TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

- 14) For each keystation "LOCAL TEST" switch in "0".
 - 15) For each keystation "DUPLEX" switch in "1".
 - 16) For each keystation "KEY CLICK" switch in "0".
 - 17) In the TSC NDCS communication cabinet, "SFGO" switch "7101" in the "TSC" position.
 - 18) In the TSC NDCS communications cabinet, the "8090" and "7163" pushbuttons in the "TSC" position.
- b. Verify the operation of all the components of the NDCS by looking for the following messages being displayed on the system console and listening for a beep once a minute:

```
OS FS01 JN=PD LFN=OD1 DEV=04 END OF FILE
X3 ING
X3 XMT
OS FS01 JN=DL LFN=OPA DEV=03 END OF FILE
OS FS01 JN=X3 LFN=RDR1 DEV=I3 END OF FILE
X3 EOT
```

If all of these messages are being displayed then the system is fully operational. Skip steps c, d, e, f and verify the operation of the ADMIN NDCS by following the directions in Activation of Admin NDCS beginning at 1 c.

- c. Access what is working properly
- 1) At the console type in:

DA CR

where CR is the carriage return key.

The computer will respond and display which programs are "RUNNING." The following is a sample response:

```
OS KP RUNNING    FAF4    2
OS PD RUNNING    157C    3
OS X3 RUNNING    2380    4
OS DL RUNNING    0D74    5
```

These programs must be running for the system to be fully active.

TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

d. Verify Harris is receiving plant data.

1) Enter the following at the system console:

EX (PR),JN=PR CR

2) Verify that a line printer is printing plant parameters on a one minute interval.

3) If the data prints out on one minute intervals, cancel the program then skip to part e.

CA PR CR

4) If the data is not being received, cancel PD then execute it again. The following commands will accomplish this.

CA PD
EX (PD),JN=PD

5) If the data is still not being received call the control room at 1224 to verify that the P250 computer is operating.

e. If data is being received, verify that it is being stored on disc:

1) Check for the following message on the console:

OS FS01 JN=PD LFN=0D1 DEV=04 END OF FILE .

2) Verify that the message is displayed about once a minute. If it is skip to part f.

3) If the message is not displayed on a regular interval then enter the following at the console:

CA PD
EX (PD),JN=PD

4) Then check for the following message on the console:

OS FS01 JN=PD LFN=0D1 DEV=04 END OF FILE

TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

- 5) If the message is still not displayed then enter the following on the console:

```
CA KP  
RN KEP2,JN=KP
```

Wait for the "KEP OPERATIONAL" message.

- 6) Go to the keystation (terminal) that has a T Bar switch connected to it. Place the switch in the PDREGAL position, cycle the power switch, wait for the blinking cursor to appear then login. The following is a sample login:

```
LOGIN AB,EOF1
```

Wait for the "ENTER COMMAND" message to be displayed then enter the following:

```
EX PDREGAL
```

NOTE: More information on PDREGAL is in Appendix 4

- 7) Check for the following message on the console:

```
OS FS01 JN=PD LFN=001 DEV=04 END OF FILE
```

If this is displayed at regular intervals then the data is being stored on disc. Skip to part f.

- 8) If the data is not being stored on disc then enter the following on the console:

```
EX (PR),JN=PR
```

This will become the back-up data storage. Skip to the verification of the ADMIN NDCCS

f. Verify data is being transmitted to CIRC, SFGO Harris.

- 1) Verify that the following messages are being displayed on the console:

```
X3 ING  
X3 XMT  
OS FS01 JN=DL LFN=OPA DEV=03 END OF FILE  
OS FS01 JN=X3 LFN=RDRI DEV=13 END OF FILE  
X3 EDT
```


TITLE ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

If the messages are being displayed then the NDCS is now fully operational. Skip to the ADMIN NDCS section.

- 2) If the messages are not being displayed then enter the following at the console:

DA

- 3) Verify that X3 and DL are "RUNNING." If they are not then go to the next step. If they are, enter the following commands at the console to cancel them:

CA X3

CA DL

- 4) Enter the following commands to initialize X3 and DL:

RN X3,JN=X3

/PT

/GO

RN DL,JN=DL

NOTE: RN X3 initializes X3 to transmit on line 7101 which implies:

RCV=S7

SMIT=S8

PUN1=05

- 5) Verify X3 and DL are operational

NOTE: If X3 BTQ message appears repeatedly instead of the messages listed in step 1 of this part, then the CIRC Harris Computer is not receiving the data. The following phone numbers may be called to do this.

DCPP EXTENTIONS []

These are DCPP extentions that go directly to CIRC in San Francisco. Other numbers are:

[Terry Chu
Dennis Gonzales]

- 6) If line 7101 can not be establish to transmit the data see Appendix 2 for alternate connections.

TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEMACTIVATION OF ADMIN NDCS

1. In the event the TSC NDCS is determined inoperable, the Emergency Evaluations and Recovery Coordinator or his designee shall:
 - a. In the TSC NDCS communications cabinet, verify or switch the "SFGO" "7101" switch to the "ADMIN" position.
 - b. In the TSC NDCS communications cabinet, verify or switch the "8090" and "7163" pushbuttons in the "ADMIN" position.
 - c. Verify or accomplish the following on the "ADMIN" NDCS equipment.
 - 1) Processor "SYSTEM POWER" switches "ON" (located on back of processor.
 - 2) Processor "ON-OFF" pushbutton in.
 - 3) Control console "POWER" switch "ON."
 - 4) Control console "LINE/LOCAL" switch on "LINE."
 - 5) Disk: "READY" light on.
 - 6) Disk: "CLEAR FAULT" pushbutton light off.
 - 7) Disk: "WRITE PROTECT" pushbutton light off.
 - 8) Control console matrix printer "POWER" pushbutton light on.
 - 9) Control console matrix printer "SELECT" pushbutton light on.
 - 10) Control console matrix printer "OFF LINE" switch in "MODE 1" (located on rear of printer).
 - 11) Line printer "POWER SWITCH" is "ON" (located on rear of printer).
 - 12) At line printer depress "ON" and "RUN" pushbuttons.
 - d. Verify Harris is receiving plant data.
 - 1) Enter the following at the system console:
EX (PR),JN=PR CR

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TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

- 2) Verify that a line printer is printing plant parameters on a one minute interval.
 - 3) If the data prints out on one minute intervals, cancel the program then skip to part e.

CA PR CR
 - 4) If the data is not being received, cancel PD then execute it again. The following commands will accomplish this:

CA PD
EX (PD),JN=PD
 - 5) If the data is still not being received call the control room at 1224 to verify that the P250 Computer is operating. You may have to start the data sending program at the P250. (See Appendix 6)
- e. If data is being received, verify that it is being stored on disc:
- 1) Check for the following message on the console:

OS FS01 JN=PD LFN=0D1 DEV=04 END OF FILE
 - 2) Verify that the message is displayed about once a minute. If it is skip to part f.
 - 3) If the message is not displayed on a regular interval then enter the following at the console:

CA PD
EX (PD),JN=PD
 - 4) Then check for the following message on the console:

OS FS01 JN=PD LFN=0D1 DEV=04 END OF FILE
 - 5) If the message is still not displayed then enter the following on the console:

CA KP
RN KEP2,JN=KP

Wait for the "KEP OPERATIONAL" message.

TITLE ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

- 6) Go to the keystation (terminal) that has a T Bar switch connected to it. Place the switch in the PDREGAL position, cycle the power switch, wait for the blinking cursor to appear then login. The following is a sample login:

```
LOGIN AB,EOF1
```

Wait for the "ENTER COMMAND" message to be displayed then enter the following:

```
EX PDREGAL
```

NOTE: More information on PDREGAL is in Appendix 4.

- 7) Check for the following message on the console:

```
OS FS01 JN=PD LFN=001 DEV=04 END OF FILE
```

If this is displayed at regular intervals, then the data is being stored on disc. Skip to part f.

- 8) If the data is not being stored on disc, then enter the following on the console:

```
EX (PR),JN=PR
```

This will become the back-up data storage. Skip to the verification of the ADMIN NDCS.

- f. If the TSC Harris is operable, then skip to the "Activation of EOF NDCS". If the TSC Harris is inoperable, then continue with this procedure.

- g. Verify data is being transmitted to CIRC, SFGO Harris.

- 1) Verify that the following messages are being displayed on the console:

```
X3 ING  
X3 XMT  
OS FS01 JN=DL LFN=00A DEV=03 END OF FILE  
OS FS01 JN=X3 LFN=RDR1 DEV=I3 END OF FILE  
X3 EOT
```

If the messages are being displayed then the NDCS is now fully operational. Skip to the ADMIN NDCS section.

TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

- 2) If the messages are not being displayed, then enter the following at the console:

DA

- 3) Verify that X3 and DL are "RUNNING". If they are not, then go to the next step. If they are, enter the following commands at the console to cancel them:

CA X3
CA DL

- 4) Enter the following commands to initialize X3 and DL:

RN X3,JN=X3
/PT
/GO
RN DL,JN=DL

NOTE: RN X3 initializes X3 to transmit on line 7101 which implies:

RCV=S7
XMIT=S8
PUN1=05

- 5) Verify X3 and DL are operational

NOTE: If X3 BTO message appears repeatedly instead of the messages listed in step 1 of this part, then the CIRC Harris Computer is not receiving the data. The following phone numbers may be called to do this:

Terry Chu
Dennis Gonzales

- 6) If line 7101 can not be established to transmit the data see Appendix 2 for alternate connections.

ACTIVATION OF EOF NDCS

1. At the EOF, the Advisor to the County Emergency Organization or the Operations and Analytical Recovery Manager or their designee shall:

- a. Verify or accomplish that either TSC or ADMIN NDCS is operational.

TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

- b. Verify or accomplish the following on the EOF NDCS equipment:
- 1) Keystation "0 1" switch in "1".
 - 2) Keystation "LOCAL TEST" switch in "0".
 - 3) Keystation "DUPLEX" switch in "1".
 - 4) Keystation "KEY CLICK" switch in "0".
 - 5) Verify "LOGIN" or "ENTER COMMAND" on keystation CRT.
 - 6) Matrix printer "POWER" pushbutton light on.
 - 7) Matrix printer "SELECT" pushbutton light on.
 - 8) Matrix printer "OFF LINE" switch in "MODE 1" (located on rear of printer).
- c. "Use of PARMDATA program" (see Appendix 5). The PARMDATA program allows selected display of plant data.
- d. Upon completion of a and b above, the EOF NDCS equipment shall be considered operable.

ACTIVATION OF CIRC NDCS

1. CIRC data processor shall:
 - a. Verify or accomplish the following on the CIRC NDCS equipment:
 - 1) Processor "SYSTEM POWER" switches "ON" (located on back of processor).
 - 2) Processor "ON-OFF" pushbutton in.

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TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

- 3) Control console "POWER" switch "ON".
- 4) Control console "LINE/LOCAL" switch on "LINE".
- 5) Disk: "READY" light on.
- 6) Disk: "CLEAR FAULT" pushbutton light off.
- 7) Disk: "WRITE PROTECT" pushbutton light off.
- 8) Matrix printer: "POWER" pushbutton light on.
- 9) Matrix printer "SELECT" pushbutton light on.
- 10) Matrix printer "OFF LINE" switch in "MODE 1" (located on rear of printer).
- 11) Line printer "POWER SWITCH" is "ON" (located on rear of printer).
- 12) Depress line printer "ON" and "RUN" pushbuttons.

b. Accept plant data from TSC:

The CIRC NDCS is brought up to accept data from TSC during the IPL (initial program load) of the Harris 1660 processor.

- 1) Type at the control console to check the status of X3 and ND program:

DA CR

If X3 is running, the control console would display:

OS X3 RUNNING...

If ND is running, the control console would display:

OS ND RUNNING...

- 2) If X3 is not running, type at the control console:

RN XT,JN=X3 CR

/GO CR

TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

- 3) If ND is not running, type at the control console:

EX (ND),JN=ND CR

- 4) If both X3 and ND are not running, type at the control console:

RN XT,JN=X3 CR
/GO CR
EX (ND),JN=ND CR

- 5) If X3 is running but it communicates with ADMIN instead of TSC, type at the control console:

CA X3 CR

Then repeat step b.2.

To check whether X3 communicates with ADMIN or TSC, type at the control console:

DP CR

The control console would display:

.
.
.
OS S5 ONLINE xx
OS S6 ONLINE xx
OS S7 ONLINE xx
OS S8 ONLINE xx
.
.
.

If xx is X3 and it appears on the S5 and S6 lines, then X3 is communicating with ADMIN provided no patching has been done on the patch panels at either end. If xx is X3 and it appears on the S7 and S8 lines, then X3 is communicating with TSC provided no patching has been done on the patch panels at either end.

- c. Accept plant data from ADMIN:

- 1) If X3 is not running, type at the control console:

RN XA,JN=X3 CR
/GO CR

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TITLE: ACTIVATION OF THE NUCLEAR DATA
COMMUNICATIONS SYSTEM

2) If ND is not running, type at the control console:

EX (ND),JN=ND CR

3) If both X3 and ND are not running, type at the control console:

RN XA,JN=X3 CR
/GO CR
EX (ND),JN=ND CR

4) If X3 is running but it communicates with TSC instead of ADMIN, type at the control console:

CA X3 CR
Then repeat step C.1.

d. Verify plant data is being received by the CIRC NDCS processor by:

1) At the control console type in:

EX (PR),JN=PR CR

2) Verify that the line printer is printing plant parameters on an approximate one minute interval.

3) The following typed in the control console will stop the printing of plant parameters:

CA PR CR

e. At the control console, type in:

1) RN KEP2,JN=KP CR

2) At any keystation, log in and type:

EX PDREGAL SKIP

3) Use the remaining keystations to trend the plant data (See Appendix 5).

f. Upon completion of a through e above, the CIRC NDCS can be considered activated and operable.

In the event b, c, d, or e above cannot be

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accomplished, use Appendix 1, "Bootstrapping the NDCS Processor." For use of the switches and patch panel in the CIRC NDCS communications cabinet, see Appendix 3, "Use of the NDCS Switches and Patch Panels".

APPENDIXES

1. BOOTSTRAPPING THE NDCS
2. USE OF THE NDCS PATCH PANELS
3. USE OF PDREGAL PROGRAM
4. ARCHIVING PLANT DATA
5. PARAMETER DATA ANALYSIS PROGRAM USER'S MANUAL
6. INITIALIZATION OF DATA TRANSMISSION FROM P250

SUPPORTING PROCEDURES

EF-1, "ACTIVATION OF THE TSC".

EF-3, "ACTIVATION OF THE EOF".

REFERENCE

HARRIS USER'S MANUAL

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APPENDIX 1

BOOTSTRAPPING THE NDCS

INTRODUCTION

In the event bootstrapping of a NDCS processor is required, the following steps may be taken.

NOTE: When the processor is bootstrapped the following programs are automatically started:

PD - P250 DATA LINK
PR - DATA MONITOR
RC - RECOVERY UTILITY

Leave PR running until KEP is established and PDREGAL is executing. This prevents a loss of data.

PROCEDURE

1. Step 1.a accomplished in the "Activation of the TSC NDCS" or Steps 1.a, 1.b, and 1.c in the "Activation of the ADMIN NDCS".
2. On the processor pushbutton station, depress the following pushbuttons:

SGL
INIT
DATA
LOAD

3. At the control console, type in:

DT MM/DD/YY (where MM=month, DD=day, YY=year)
TM HH:MM:SS (where HH=hours, MM=minutes, SS=seconds)

CR
CR

4. If the first line on the control console reads:

"OS ECOS MOUNTED OAMM2, O0XX BAD FILES CATALOGUED VOLUME" (where XX can be any digits), complete the following:

- a. When the following prompts appear:

RC ANY VOLUMES TO BE RECOVERED??
RC PLEASE ENTER YES (*Y) OR NO (*N)

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Type in:

*Y CR

- b. When the following prompt appears:

RC PLEASE ENTER VOLUME NAME (*....) TO BE RECOVERED

Type in:

*ECOS CR

- c. When the following prompt appears:

WRITE EOF FOR FILE??

PLEASE ENTER YES (*Y) OR NO (*N)

Type in:

*Y CR

- d. For all other prompts that appear, type in:

*N CR

- e. When the following appears:

RC RECOVERY UTILITY--END EXECUTION
OS JM60 JN=RE END EXECUTION

- f. Type in:

1) RN KEP2,JN=KP CR

2) At any keystation, log in and type

EX PDREGAL SKIPThe ADMIN NDCS processor has been bootstrapped;
continue with (g) for bootstrapping of the TSC NDCS
processor.

- g. Type in:

RN X3,JN=X3 CR

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/PT CR
/GO CR

h. Type in:

EX (DL),JN=DL CR

The TSC NDCS processor has been bootstrapped.

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APPENDIX 2

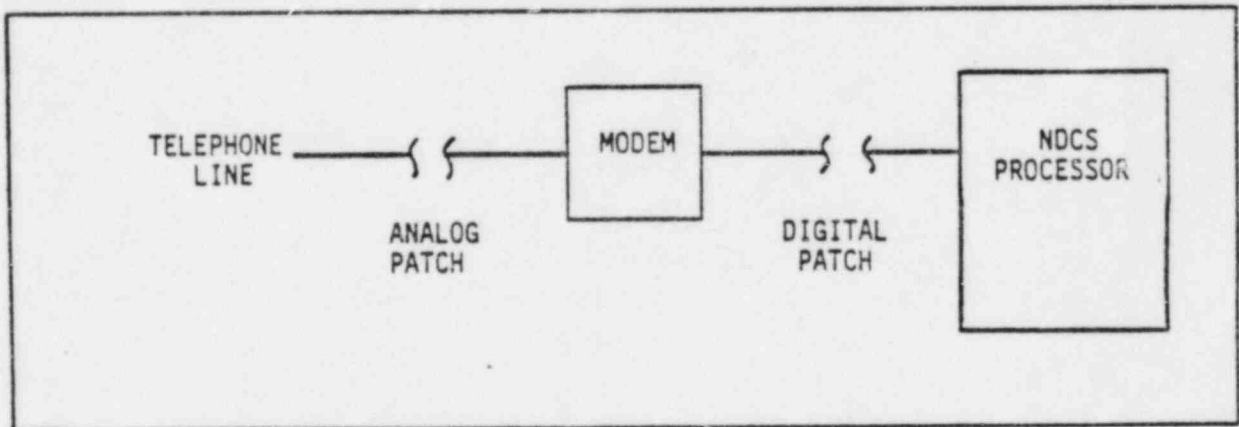
USE OF THE NDCS PATCH PANELS

INTRODUCTION

A communications cabinet is provided in the TSC Operations Center, the Administration Building computer room, and the CIRC computer room to enable transmission of data to various locations. These cabinets contain modems, telephone lines, patch panels, and switches. The patch panels and switches provide an alternate means of transmitting data in the event of modem or telephone line failure.

The patch panels at each location contain two types of patches, analog and digital. Analog patches are made on the telephone line side of a modem, while digital patches are made on the NDCS processor side of a modem (see Figure 1 below).

Figure 1

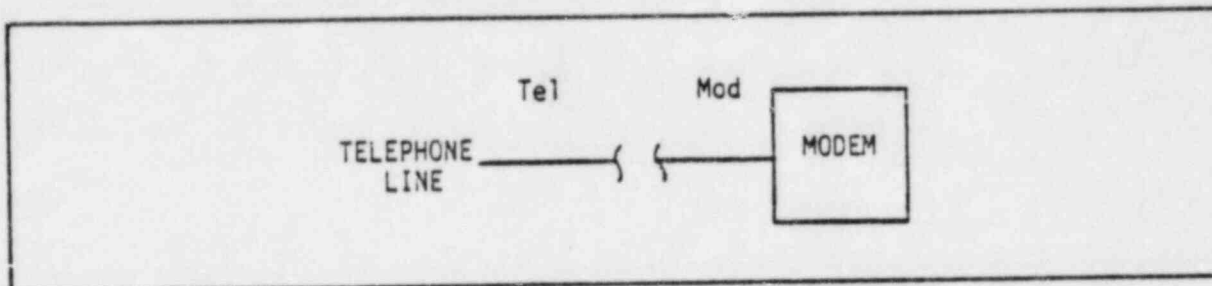


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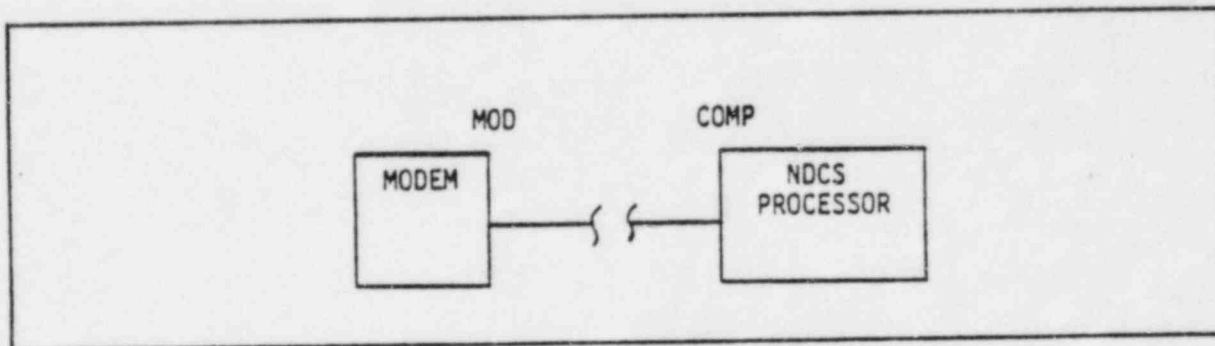
Each analog and digital patch is further broken down into a telephone (TEL), modem (MOD), or computer (COMP) side patch as shown in the Figure 2.

Figure 2

Analog Patch



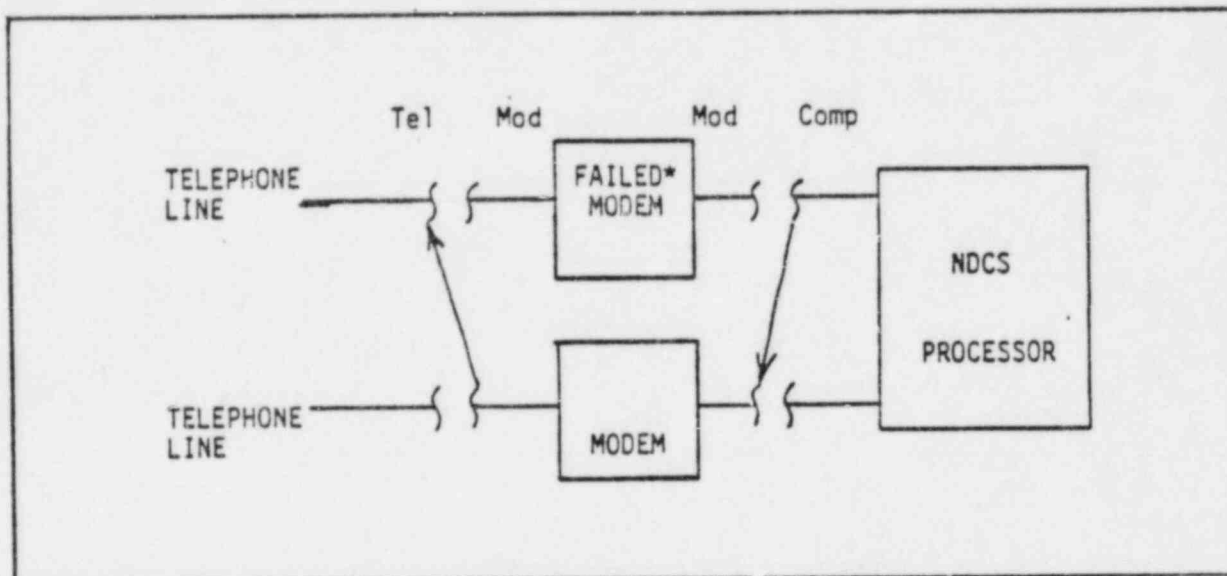
Digital Patch



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It is therefore possible to patch compatible modems in the event of a line or modem failure. Figure 3 illustrates how a patch can be in the event of a modem failure.

Figure 3

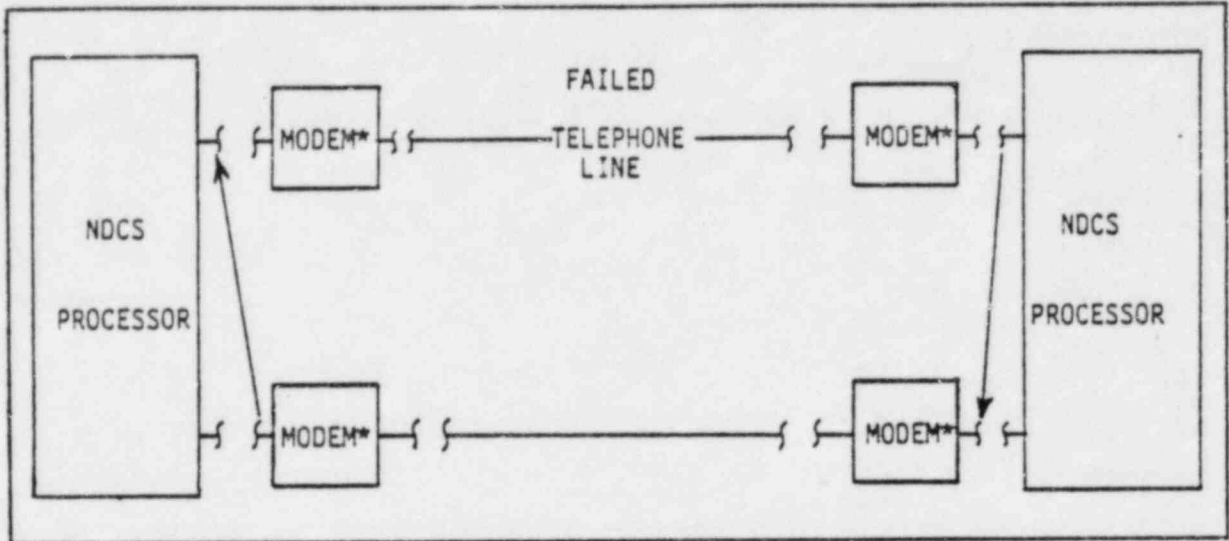
Modem Failure Patch

*Compatible modems

A modem failure patch as illustrated above requires only local patching. Reassignment of input or output ports of the two communicating NDCS processor is not necessary since data transmission is on the same telephone line. In the event of a telephone line failure, patches at both NDCS processor locations are required; however, no input/output port reassignments are required. Figure 4 shows a telephone line failure patch configuration.

Figure 4

Telephone Line Failure Patch



*Compatible modems

The analog switches located in the TSC communications cabinet provide a mechanism to allow data transmission from either the TSC or ADMIN NDCS processor to the CIRC processor, EOF keystation, and Boeing Computer Services.

PROCEDURE

1. Two lines are dedicated to data communications. Line "7101" is designated for communication between TSC and CIRC and line "7161" is designated for ADMIN and CIRC. One dial-up line may also be used for this type of communication if it is desirable.

Normal communication is considered inoperable if either the "7101" modem or the "7101" telephone line fails. Under such condition, corrective actions to reestablish communication are required. Patching is necessary to use other available modems or telephone lines.

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In the event of "7101" modem failure, see Step 1.1. In the event of "7101" telephone line failure, see Step 1.2. In the event that both lines "7101" and "7161" are inoperable, see Step 1.3.

1.1 Modem Failure

In the event that line "7101" modem is inoperable, switch to the "7161" modem using the following patching:

On the digital side, patch "7101" "COMP" into "7161" "MOD", and on the analog side, patch "7161" "MOD" into "7101" "TEL".

1.2 Telephone Line Failure

In the event that "7101" telephone line is inoperable, switch to line "7161" by the following procedure.

In the TSC, either patch digital "7101" "COMP" into "7161" "MOD" or analog "7101" "MOD" into "7161" "TEL".

In the CIRC, either patch digital "7161" "MOD" into "7101" "COMP" or patch analog "7161" "TEL" into "7101" "MOD".

1.3 Both "7101" and "7161" Failure

In the event that both "7101" and "7161" circuits (modems and/or lines) are inoperable, the dial-up line could be adopted for backup data communication. This can be achieved by entering commands from the processor control consoles at TSC and CIRC.

At the TSC processor control console, type in:

CA X3 CR

CA DL CR

RN X3DIAL,JN=X3 CR

/PT CR

/GO CR

EX (DL),JN=DL CR

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At the CIRC processor control console, type in;

CA X3 CR

CA ND CR

RN X3DIAL,JN=X3 CR
/GO CR

EX (ND),JN=ND CR

Then using a dial data phone (4800 BAUD) call the appropriate CIRC data phone (415) 546-0346. When both parties are on the data phone line, both parties should depress the data pushbuttons, then replace the receivers.

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APPENDIX 3

USE OF PDREGAL

INTRODUCTION

The PDREGAL program written in the REGAL language is to run on the Harris 1660 Computer. The purpose of PDREGAL program is to store plant data on a disk file.

DISCUSSION

The PDREGAL Program receives plant data from the PD program. The data is transferred between the two programs through a PSEUDO DEVICE (a first-in - first-out buffer). After receiving a set of data, PDREGAL will store it in the disk file PDFILE.

The disk file PDFILE is a relative record file containing 27361 lines of data. This file can store 24 hours of data. PDREGAL stores 19 lines of data each minute.

EXECUTION

PDREGAL is run under the Harris system program called KEP. KEP activates the user keystations. With KEP running go to the keystation with the T BAR switch (only at TSC and ADMIN Harris Computers).

1. Place T BAR switch in PDREGAL position.
2. Cycle the power on the keystation.
3. Press the ABORT key after the blinking cursor appears. PLEASE LOGIN will be displayed.
4. Enter the following to login:
LOGIN AB,EOF1
5. Then enter the following to execute the program.

EX PDREGAL
To terminate execution press the ABORT key several times. Once the program is terminated enter N to return to the ENTER COMMAND mode.

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APPENDIX 4

ARCHIVING PLANT DATA

During an ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY the P250 plant data needs to be archived immediately after one of these conditions is declared, and every 24 hours while one of these three conditions exist.

REQUIREMENTS

- 1) Both Harris Computers at DCPD must be operational and collecting data.
- 2) TSC Harris is sending data to CIRC.

The archiving process should be done with the ADMIN HARRIS. PDREGAL should remain in operation while the archiving takes place.

Mount the data archive tape. Skip pass the other files on the tape. Check the label to determine how many files are on the tape.

On the console enter the following:

```
ON T1
TP T1,RL=80,BF=25
```

Then on a keystation enter the following:

```
EX ARCHIVE1
LOAD IN PROGRESS
```

The screen will clear and the following message will be displayed:

```
THIS PROGRAM REQUIRES THAT A TAPE BE MOUNTED ON THE
TAPEDRIVE AND THE DRIVE BE PLACED ONLINE. SET THE BLOCKING
FACTOR TO 25 AND THE RECORD LENGTH TO 80.
```

PRESS THE SPACE-BAR WHEN READY TO CONTINUE.

When the tape is ready to go and the appropriate commands have been entered, press the space-bar. The following messages will then be displayed:

```
PRESS THE BREAK KEY TO STOP
ARCHIVING (POFILE) NOW
```

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The tape will start shortly after this and will run until the entire
PDFILE is archived. As the message states, to stop press the BREAK
key. The following additional messages are displayed when the BREAK
key is pressed:

NOW IN A WAIT STATE

HAVE COPIED _____ RECORDS

DO YOU WISH TO CONTINUE? Y OR N

By answering N (no) the program ends. If the question is answered Y
(yes) the archiving resumes.

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APPENDIX 5

NUCLEAR PLANT OPERATIONS
PARAMETER DATA ANALYSIS PROGRAM

USER'S MANUAL

Edward V. Bacho
Engineering Computer Applications
Pacific Gas and Electric Company

June 30, 1982

DC0065 28III

TITLE: ACTIVATION OF THE NUCLEAR DATA
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1.0 GENERAL DESCRIPTION

The PARMDATA program displays nuclear plant operation data received from the P250 computers at Diablo Canyon. The data can be displayed in a number of operator chosen formats that allow him to easily interpret the data. The program is run on a Harris computer using the KEP operating system. The P250 computer is connected to the Harris systems at both Diablo Canyon and 77 Beale Street via communications lines. The main device for both control and output of this program is a KEP station CRT.

The program is designed to allow the operator to examine the data received in several different formats (or screens). The screens are chosen from menus and are easily called. Two modes of operation are possible. In present mode, the data in the program is automatically updated as it is received. In past mode, the operator may choose any data received in the last 24 hours to examine. Both screens and modes of operation are altered through the use of PA keys. These keys (located along the top of the KEP keyboard) are defined on the screen and will produce the appropriate menus on the screen when activated. In addition, a Status Board Report can be produced on the system lineprinter. This report is also produced (PAST mode) or its options altered (PRESENT mode) by the use of a PA key.

Each parameter received from the P250 has a value and a status associated with it. Any parameter whose status indicated that it is unreliable or off scan will be followed by an asterisk on the screen (e.g. 79.6*).

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2.0 PROGRAM OPERATION

2.1 STARTING PROGRAM

The program can be started once the user is logged into the KEP system. The system will print an "ENTER COMMAND:" prompt and the user will respond with a "EX PARMDATA" as shown below.

```
ENTER COMMAND:  
EX PARMDATA
```

2.2 IN CASE OF ABORT

There is a possibility that the program might abort if an improper input sequence is given. This possibility has been minimized. However, if it happens, the user's response should be to answer N (no) to the dump question and restart the program with EX PARMDATA. The program does not alter any data so the abort will not corrupt the data base.

2.3 PRECAUTIONS

Several precautions should be noted in using the program. There is some inherent delay involved in the execution. Response and execution of a feature might take as long as 15 seconds to complete. Hitting the PA key a second time should be avoided as it tends to confuse the machine and/or operator with its response. A good rule of thumb might be to let the cursor span the bottom of the screen (in present mode) ten times before an operation is retried.

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3.0 STANDARD SCREEN

The screens displaying the data will have several common features that are described below. Changing the screen format or the arrival of new data will cause the screen to be cleared and the new data printed.

3.1 TITLE OF SCREEN

The title of the screen being displayed will be printed on the left hand side of the top line of the screen.

3.2 TIME AND DATE

The time and date of the data are displayed on the right hand side of the top line. This time and date refer to when the data was taken which is not necessarily the actual time.

3.3 ERROR MESSAGES

Any error messages will be displayed on the left hand side of the second to last line on the screen. These error messages refer to the data currently being displayed on the screen. Explanations of the error messages can be found in Appendix A.

3.4 MODE OF OPERATION

The mode of operation(PAST,PRESENT) which the program is currently in is displayed on the right hand side of the second to last line on the screen. The mode of operation can be changed with the PA keys and this field will be changed with the first update of the screen.

3.5 TEMPORARY MESSAGES

Temporary messages give an indication of what the program is doing. They are displayed on the second to last line of the screen immediately to the left of the mode of operation. A READ message indicates that the program is currently reading in a new record from the data file. A WAIT message (PRESENT mode only) indicates the program is waiting for a new record of data to arrive from the P250 computer.

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4.0 PA KEYS

The PA keys are used to alter the operation of the program. This could be the screen format, the mode of operation, or the operation of the lineprinter report. They keys can be pressed at any time and will be acted on when the program pauses. The program might therefore finish a screen output before acting on a PA key. However, if the program is in present mode waiting for the next record, it never pauses. In this case the BREAK key should be used to force a pause. Therefore, if in present mode, the BREAK key should be hit after hitting the PA key to cause the appropriate action. The function of each of the PA keys is explained below.

4.1 PA1 - SCREEN

This key causes the screen menu to be printed on the screen. This menu lists all possible screen formats for the data. The desired screen is chosen by entering its corresponding number. The subgroup screen will print an additional menu.

4.2 PA2 - LP

This key is associated with the Status Board Report printed on the lineprinter. If in past mode, the key causes the report to be printed for the data currently being examined. If in present mode, the key causes the status of the automatic Status Board Report to be displayed and any of its variables to be altered. This report can be set up to print every "n" minutes. The operator will be asked whether he wants the option on or off and the interval between reports desired.

4.3 PA3 - PAST

This key puts the program in past mode. The automatic updating of data will be disabled (Note: Data will still be received from the P250 but not displayed) and the time of the old data is to be examined will be requested. Any data received in the last 24 hours can be examined using one of the available screens. To change the data being examined, this key is pressed again.

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4.5 PA4 - PRESENT

This key puts the program in present mode. The automatic updating of data is reactivated and the latest data received displayed on the screen. The program will then go into wait mode until a new record is received from the P250.

4.6 PA5 - END

This key will cause the program to terminate and return the user to the KEP operating system.

4.7 PA29 - BREAK

This key is used to force a pause in the program so that the PA key can be acted on. This key need only be used during the WAIT state in present mode. It can be pressed either before or after the desired PA function key.

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5.0 SCREENS

There are five different types of screens in which the data can be displayed. The screen is chosen by pressing the PA1 key (and BREAK key if necessary) and choosing from the menu. Any value on a screen followed by an asterisk is unreliable. Brief descriptions of the available screens are listed below.

5.1 REACTOR STATUS

This screen displays data on power levels, temperatures, and parameters associated with LOOP1 to LOOP4.

5.2 SUPPORT SYSTEMS AND CONTAINMENT STATUS

This screen displays data on pump parameters, flow parameters, and tank levels.

5.3 THERMOCOUPLE MAP

This screen displays a map of the reactor core and the thermocouple readings at different positions within the core.

5.4 SUBGROUPS

This screen displays any two subgroups of parameters. A subgroup contains ten related parameters. Each parameter includes its AP symbol, its description, and its actual value. A second menu is displayed when choosing the screen to specify the subgroups.

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5.5 DUMP

This screen is a utility to examine all 170 parameters in a record. It displays twenty parameters at a time on the screen. Each parameter lists its numeric status, its numeric value, and its character string as displayed on the other screens (the value and possibly an asterik). To list the next twenty parameters, the SKIP key is pressed. An E key will cause the screen to exit and return to the beginning. Because of this, it is best to change the screen using PA1 before hitting the E key when a new screen is desired.

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6.0 MODES OF OPERATION

The program can operate in either PAST or PRESENT mode of operation. The current mode is displayed in the bottom right hand corner of the screen and can be changed by the use of the PA3 or PA4 key.

In past mode, the operator is asked for a time of day and the program retrieves the data from the data file. The data file holds data from the last 24 hours with one record for every minute of the day. Once retrieved, the data may be displayed using any of the screens available. A Status Board Report from the lineprinter may be obtained by pressing the PA2 key. To replace the data with another record of data the PA3 key is pressed again and the new time entered.

In present mode, the program automatically updates the data when a new record is inserted into the data file by the P250. Therefore, the screen always displays the most current data received from the P250. In this mode, the cursor will scan across the bottom of the screen to indicate that it is working. The lineprinter can be set up to print a Status Board Report every "n" minutes. To turn this option off or on, and to choose the interval time "n" the PA2 key is pressed. The lineprinter's current status will be displayed and the new parameters asked for.

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7.0 STATUS BOARD REPORT

The Status Board Report is a report printed on the lineprinter and used to update the status board in the control room. It contains data on the reactor status, support status, containment status, and radiation readings. It is designed to fit on a standard 8 1/2" x 11" sheet. The report can be set up (in present mode) to print at some given interval of time (in minutes). To turn the option on or off and to change the interval time, the PA2 key is pressed. The program must be in present mode to change these parameters. In past mode, a Status Board Report can be generated for the current data being examined by pressing the PA2 key.

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APPENDIX A - ERROR MESSAGES

** WARNING - DATA IS NOT TODAY'S **

This message indicates that the date on the data record currently on the screen does not match the system date on the Harris computer. This indicates that the data is old, possibly yesterday's data. The actual date of the data will be displayed on the screen. This error might also indicate a corrupted header on the record. The date might be corrupted and therefore not match the system data.

*** DATA CHECK ERROR ***

This error indicates that the data record was corrupted and could not be decoded. It could be caused by illegal or missing characters in the data record. All values that can not be read are marked with an asterisk. However, in this case there is a high probability that all the data is corrupted and therefore its validity should be questioned.

** ERROR - FILE READ FAILURE **

This indicates an error has occurred in accessing either the circular data file. (PDFILE) or the parameter description file (DESCRIPT/DATA). The file is either locked or a non-existent record has been accessed.

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APPENDIX B - SCREEN SAMPLES

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***** DATA TIME= 0.00 DATA DATE= 0/00/00 ***

INDICATE PARAMETER GROUPING TO MONITOR

- 1 REACTOR STATUS
- 2 SUPPORT SYSTEM AND CONTAINMENT STATUS
- 3 THERMOCOUPLE MAP
- 4 SUBGROUP DISPLAY
- * DUMP PARAMETER VALUES

SCREEN (1-5) ?

PA1-SCREEN PA2-LP PA3-PAST PA4-PRES PA5-END (HIT BREAK IF NO RESPONSE)

PRES

DC0065 41111

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**** REACTOR STATUS ***** DATA TIME=15 45 DATA DATE= 9/19/82 ****

		HIGHEST	AVERAGE		
POWER LEVEL	POWER RANGE	0 0	0 0 %RTP		
	INT RANGE	0 0	0 0 MCAMP		
	SOURCE RANGE	0 0	0 0 DKCS		
RCS PRESSURE	11.2 PSIG				
PRESSURIZER LEVEL	100.0 %				
	LOOP1	LOOP2	LOOP3	LOOP4	
RCS TEMP (HL)	415.0	415.0	415.0	415.0	F
	(CL)	408.0	408.0	408.0	F
RCS FLOW	120.0	120.2	120.1	120.2	%
SG LEVEL (WR)	-0.7	-2.9	-0.8	47.0	%
SG PRESSURE	250.0	250.0	250.0	250.0	PSIG
STEAM FLOW	0.0*	0.0*	0.0*	0.0*	%
FW FLOW	199.2	165.7	0.0*	0.0*	*KBH
SUBCOOLING	200.4 F				
INCORE T/C	HOTTEST	600.0 F	AVERAGE	600.0 F	
RV HEAD TEMPERATURES		600.0	600.0	600.0	600.0 F
PRT TEMP	68.4 F	PRES	-1.9 PSIG	LEVEL	80.6 %

PA1-SCREEN PA2-LP PA3-PAST PA4-PRES PA5-END (HIT BREAK IF NO RESPONSE)

**** SUPPORT SYSTEMS ***** DATA TIME=15 48 DATA DATE= 9/19/82 ****

CHARGE PUMP FLOW 121.7 GPM LETDOWN FLOW 0.0* GPM

RHR PUMP FLOW TO HOT LEGS 1160.1 GPM

RHR PUMP DISCHARGE TEMP (1) 66.7 (2) 77.8 F

CC FLOW (A) 3059.0 (B) 3837.5 (C) 3103.7 GPM

TANK LEVELS	CST	FWST	RWST	VCT
	369.3 %	98.3 %	62.0 %	13.4 %

**** CONTAINMENT STATUS *****

PRESSURE (A) 0.0 PSIG (B) 0.0 PSIG

TEMPERATURE 110.0 F

PA1-SCREEN PA2-LP PA3-PAST PA4-PRES PA5-END (HIT BREAK IF NO RESPONSE)

TITLE: ACTIVATION OF NUCLEAR DATA COMMUNICATIONS SYSTEM

**** CORE EXIT THERMOCOUPLES **** DATA TIME=15 50 DATA DATE= 9/19/82 ****

	T/C AVERAGE	HOTTEST T/C	ID OF HOTTEST	RV HEAD TEMPERATURES				
	600.0	600.0	1 0	600.0	600.0	600.0	600.0	600.0 F
R	600.0			600.0				
P								
N								
M								
L	600.0	600.0		600.0			600.0	
K								
J								
H	600.0			600.0			600.0	
G								
F								
E	600.0	600.0		600.0			600.0	
D								
C	600.0			600.0			600.0	
B								
A	600.0	600.0		600.0			600.0	

PA1-SCREEN PA2-LP PA3-PAST PA4-PRES PA5-END (HIT BREAK IF NO RESPONSE)

RCS LOOP 1 AND S/G 1-1 * DATA TIME=15 54 DATA DATE= 9/19/82 ****

F0400A	RCL 1-1 FLOW	120.0 %
F0401A	RCL 1-1 FLOW	119.9 %
T0406A	RCL 1-1 T COLD	408.0 F
T0419A	RCL 1-1 T HOT	415.0 F
L0400A	S/G 1-1 NR LEVEL	30.0 %
L0403A	S/G 1-1 NR LEVEL	-0.6 %
P0400A	S/G STEAM PRESSURE	250.0 PSIG
P0401A	S/G STEAM PRESSURE	-3.1 PSIG
F0403A	S/G 1-1 FW FLOW	234.4 KBH
F0405A	S/G 1-1 STEAM FLOW	0.0 KBH
CONTAINMENT ATMOS & CCW DLOW		
P1000A	CONTAINMENT PRESSURE	0.0 PSIG
P1001A	CONTAINMENT PRESSURE	0.0 PSIG
Y0701A	CONTAINMENT TEMPERATURE	110.0 F
F0619A	CCW HDR-A FLOW	2973.5 GPM
F0620A	CCW HDR-B FLOW	3797.5 GPM
F0621A	CCW HDR-C FLOW	3068.1 GPM
-----	SPARE	0.0
-----	SPARE	0.0
-----	SPARE	0.0
-----	SPARE	0.0

PA1-SCREEN PA2-LP PA3-PAST PA4-PRES PA5-END (HIT BREAK IF NO RESPONSE)

DIABLO CANYON POWER PLANT UNIT NO(S) 1 AND 2

NUMBER EP EF-7
REVISION 1
DATE 8/16/82
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TITLE: ACTIVATION OF NUCLEAR DATA
COMMUNICATIONS SYSTEM

***** DATA TIME=15 54 DATA DATE= 9-19-82 ***

INDEX= 1	STAT=0	VALUE= 120 0	OUTVAL(IN)= 120 0	SKIP TO CONTINUE
INDEX= 2	STAT=0	VALUE= 119 9	OUTVAL(IN)= 119 9	E TO END
INDEX= 3	STAT=0	VALUE= 408 0	OUTVAL(IN)= 408 0	
INDEX= 4	STAT=0	VALUE= 415 0	OUTVAL(IN)= 415 0	
INDEX= 5	STAT=0	VALUE= 30 0	OUTVAL(IN)= 30 0	
INDEX= 6	STAT=0	VALUE= -0 5	OUTVAL(IN)= -0 5	
INDEX= 7	STAT=0	VALUE= 250 0	OUTVAL(IN)= 250 0	
INDEX= 8	STAT=0	VALUE= -8 1	OUTVAL(IN)= -8 1	
INDEX= 9	STAT=0	VALUE= 234 4	OUTVAL(IN)= 234 4	
INDEX= 10	STAT=2	VALUE= 0 0	OUTVAL(IN)= 0 0*	
INDEX= 11	STAT=0	VALUE= 120 2	OUTVAL(IN)= 120 2	
INDEX= 12	STAT=0	VALUE= 120 0	OUTVAL(IN)= 120 0	
INDEX= 13	STAT=0	VALUE= 408 0	OUTVAL(IN)= 408 0	
INDEX= 14	STAT=0	VALUE= 415 0	OUTVAL(IN)= 415 0	
INDEX= 15	STAT=0	VALUE= 30 0	OUTVAL(IN)= 30 0	
INDEX= 16	STAT=0	VALUE= -2 9	OUTVAL(IN)= -2 9	
INDEX= 17	STAT=0	VALUE= 250 0	OUTVAL(IN)= 250 0	
INDEX= 18	STAT=0	VALUE= -8 1	OUTVAL(IN)= -8 1	
INDEX= 19	STAT=0	VALUE= 165 7	OUTVAL(IN)= 165 7	
INDEX= 20	STAT=2	VALUE= 0 0	OUTVAL(IN)= 0 0*	

*****PRES**
PA1-SCREEN PA2-LP PA3-PAST PA4-PRES PA5-END (HIT BREAK IF NO RESPONSE)

***** DATA TIME=16 11 DATA DATE= 9-19-82 ***

INDEX=161	STAT=0	VALUE= 0 0	OUTVAL(IN)= 0 0	SKIP TO CONTINUE
INDEX=162	STAT=0	VALUE= 0 0	OUTVAL(IN)= 0 0	E TO END
INDEX=163	STAT=0	VALUE= 0 0	OUTVAL(IN)= 0 0	
INDEX=164	STAT=0	VALUE= 0 0	OUTVAL(IN)= 0 0	
INDEX=165	STAT=0	VALUE= 0 0	OUTVAL(IN)= 0 0	
INDEX=166	STAT=0	VALUE= 0 0	OUTVAL(IN)= 0 0	
INDEX=167	STAT=0	VALUE= 0 0	OUTVAL(IN)= 0 0	
INDEX=168	STAT=0	VALUE= 0 0	OUTVAL(IN)= 0 0	
INDEX=169	STAT=0	VALUE= 0 0	OUTVAL(IN)= 0 0	
INDEX=170	STAT=0	VALUE= 0 0	OUTVAL(IN)= 0 0	

*****PRES**
PA1-SCREEN PA2-LP PA3-PAST PA4-PRES PA5-END (HIT BREAK IF NO RESPONSE)

TITLE: ACTIVATION OF NUCLEAR DATA
COMMUNICATIONS SYSTEM

APPENDIX 6

INITIALIZATION OF DATA TRANSMISSION FROM P250

The procedure to start the P-250 sending the data for the PARMDATA program is as follows:

From the programmer console:

- Push "ATTN INT" button
- Type DH CORE/3916/
- Push "RETURN" key
- Push Space Bar

The location in core (3916) will be displayed in hexadecimal such as:
107F.

This word is the Auto Turbine Start Bid Word. Each bit controls the periodic bidding of a particular task. The bit arrangement for the above word is:

0001 0000 0111 1111

A "0" indicates the task is on periodic bid, and a "1" indicates it is not.

The 4th bit in the word controls the bidding of the B priority task which has been assigned to the program P250TSC, which is the program we are concerned with. In order to initiate the periodic bidding of the program, this bit must be changed to a "0". The procedure for this is:

- Push "ATTN INT" button
- Type MH CORE/3916/
- Push "RETURN" key
- Push Space Bar
- Type 007F
- Push "RETURN" key

DIABLO CANYON POWER PLANT UNIT NO(S) 1 AND 2

NUMBER EP EF-7
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TITLE: ACTIVATION OF NUCLEAR DATA
COMMUNICATIONS SYSTEM

Push Space Bar

Type !

Push "RETURN" key

Push Space Bar

The program will now begin executing at a predetermined frequency and will send the data to both the TSC and the administration building Harris Computers.*

*NOTE: This data can also be printed at the P-250 computer room by plugging in the AJ terminal into a provided RS-232 cable connector on the modem cart.

DIABLO CANYON POWER PLANT PROCEDURE ON-THE-SPOT CHANGE

Procedure No. EP EF-5 Rev. 1 Unit No. 1 2 1 & 2
EMERGENCY EQUIPMENT, INSTRUMENTS & SUPPLIES

Type of Change PERMANENT (green) TEMPORARY (yellow); Expiration Date _____
Requesting Department CHEM AND RAD PROTECTION Originator Larry Moretti

Proposed Change: (Does this alter the intent of original procedure? Yes No)
(Does it constitute an unreviewed safety/environmental question? YES NO)

Table 7 - Contents of Post-Accident Sample Kit is to be replaced by the revised
Table 7, dated 10/18/82
See attached Table 7, 10/18/82

ORIGINATOR

Reason for Change:
The previous Table 7 did not list all of the required equipment and listed
equipment not necessary for post-accident sampling at the IPLSS

Authorizations: [Signature] (Plant Management Staff) [Signature] (Plant Management Staff w/SRO License) 10/18/82 Date*

Immediate distribution to the Control Room and affected work areas required? YES NO Initial Distribution By:
Distributed To: Control Room Others _____

DOCUMENT CONTROL
Date Received by Document Control 10/18/82
PSRC Review and Plant Manager's approval no later than 11/1/82 Date above *plus 14 days

PSRC POST CHANGE REVIEW
Review Date _____
PSRC recommends approval Yes No _____ Plant Manager's Approval N/A
Meeting Number -

Follow-up To Rejected On-the-Spot Change Additional Information
Action Taken/Remarks:

REQUIRES DEPARTMENT

10/18/82

TABLE 7
 CONTENTS OF POST-ACCIDENTS SAMPLE KIT

<u>ITEM</u>	<u>QUANTITY</u>
1. Instruction Binder	
a. Sanford Marking Pens	2
b. Red Marking Pens	2
c. Black Marking Pens	2
d. Ball Point Pens	2
e. EP EF-5 Emergency Equipment, Instruments, Supplies	1
f. CAP G-1 Access to IPLSS Area, Post-Accident Sample Preparation, Handling, and analysis	1
g. CAP G-2 Interim Post LOCA Sampling System	1
h. Emergency Phone Directory	1
i. Adhesive Backed Sample Labels	20
2. Monitoring Equipment	
a. Teletector (Eberline 6112)	1
b. Pocket Dosimeters (0-5R)	2
c. Pocket Dosimeters (0-200 mr)	2
d. Dosimeter Charger	1
e. Finger Rings	12
f. Dose Rate Meter (HP1-1010 or R0-2)	1
g. Survey Meter (Eber. E-140)	1
h. Pancake G-M Probe (Eber. HP-210 or HP-260)	1
3. Sampling Equipment	
a. Tongs	1
b. Forceps	1
c. Silver Zeolite (AqZ) cartridges	12
d. 12 cc Stainless Steel Liquid Sample Vessel	1
e. 5 cc Shielded syringes	5
f. 1 cc Shielded syringes	5
g. Glass vials (14 cc) w/rubber stoppers	12
h. Air Sample filter/cartridge holder assembly	2
i. Surgical tubing (1/4")	5
j. Duct tape	3
k. Air Sample Particulate Filters (pkg of 10)	3
l. Compressed Air Cylinders	2
m. Air Cylinder Regulator	1
n. Plastic Bags (15" x 30")	20
o. B-D Hypodermic needles (LUER-LOK pkg of 12)	4

10/18/82

Contents of Post-Accidents Sample Kit
Sampling Equipment (cont'd)

<u>ITEM</u>	<u>QUANTITY</u>
p. Radioactive labels	1 roll
q. LIQUID Sample Vessel adapter tubing (Plastic tubing w/male adapters)	2
4. Miscellaneous Equipment	
a. Protective Clothing Sets (coveralls, hood, booties, shoe covers, gloves)	2
b. Stopwatch	1
c. Calculator	1
d. Crescent Wrench (8")	1
e. Screwdriver	1
f. Allen wrench (3/32")	1
g. Masking Tape (2" wide rolls)	2
h. Flashlight w/batteries	1
i. Extra Batteries	2
j. Allen wrench (5/64")	1
k. Key to East gates outside elev 115'	1