

CONTROLLED DOCUMENT

EMERGENCY PLAN IMPLEMENTING PROCEDURE TRANSMITTAL

CONTROLLED DOCUMENT LIST I

EPIP NO. Change List dated 3/21/86, EPIP-04, pcn 01 DATE 3/21/86
 Rev.-9, EPIP-03, pcn 01, Rev.-10

A	
V. Elish	5-2
G. Fiorelli	5-1
R. Seaman	5-1
Jacek Orłowski	12-22
Compliance	-
Leon Brown	5-33
J. G. Sarver	5-102
V. Rhodes	1-1
Thomas P. Hillmer	5-121
T. Exum	5-40
DDC Library	1-2
M. W. Lantz	5-35
Penny Egebrecht	5-91
Harry Bieling	17-9
Gerald Simiele	5-118
J. Cedercuist	5-10
T. Shriver	5-8
T. Barak	5-73
D. Best	5-88
R. Johnson	5-12
Sec Cpt	15-1
Doeg Nelson	5-41
EOF	17-1A
EOF	17-1B
EOF	17-1C
EOF	17-1D
EOF (Room 12)	17-1E
EOF	17-1F
Unit 2 Rad Protection	5-95
Martha Roettger	5-114
Mike Crusa	17-4
Garv Clyde	12-61
M.L. Clyde	5-79
Dennis Yows	5-36
Bill Knighton	15-2
Russ Papworth	5-7
Bruce Rash	13-18
Dan Phillips	13-16
B	
J. M. Allen	5-31
W. Fernow	5-14
C. Anderson	6-7
Sim Obs Rm	5-89
C. R. Dunaway	5-9
D. Nelson	5-18
M. Whitaker	5-38
J. Tench	5-19
A. Perouthka	6-6
J. R. Bvnum	5-22
B. Simmons	6-10
F. Hicks	

C	
Unit 1 Control Room	5-2B
Kris Oberdorf	5-6
Darrel Nissen	3-2
Unit 1 Radwaste	5-43
Frank Warriner	3-3
T. Warren	5-21
Startup Complex (Upstairs)	2-10A

D	
B. Rogers/TSC	5-94
TSC	3-5
Galen Olson	3-8
Steve Grove	3-4
Greg Roettger	5-112
Maintenance Manager	3-11
TSC E Plan Anal	3-5A
Unit 2 Control Room	5-25
Bob Adney	5-93

E	
D. Fasnacht	19-1
M. Zimmerman	20-1
Jim St. John	14-47
Dan Canady	13-42

F	
WRF/DDC	1-7
Unit III Radwaste Library	5-30
Unit III Control Rm.	5-39
Unit III I&C	5-33
Unit III Radiation Protection	5-96

FOR NRC

FOR W. F. QUINN/4057 W/NRC LETTER ON R/A
 Jack Martin/Adm 8-8

Document Conf. Desk	8-8
Document Conf. Desk	8-9B
Gail M. Temple	8-5
Falk Kantor	8-6

PROCEDURE GROUP

Dennis Yows 5-36A thru 5-36I
 Emergency Kits coordinate w/ J. Sims

010 8605270355 860417
 PDR ADOCK 05000528
 F PDR

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PALO VERDE NUCLEAR GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURES

CHANGE LIST

DATE 03-21-86

Procedure Number	Procedure Title	Rev.	Date Effective
EPIP-03	Notification Of Unusual Event Implementing Actions	10	03-21-86
EPIP-04	Alert Implementing Actions	09	03-21-86

REGISTERED COPY

REVISED

8-9A

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PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

ASSIGNED COPY

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PVNGS

8-9A

INTENT CHANGE: NO []
YES []

1. PROCEDURE TITLE Notification of Unusual Event Implementing Actions
2. PROCEDURE NUMBER EPIP-03 REV. 10 PCN 1
- 2a. Manager concurrence N/A DATE _____
to exceed 5 PCNs
3. REASON FOR PCN: To make the STSC Communicator aware that the NRC may request the ENS be manned continuously during an event.
4. EXPIRATION: permanent
5. AFFECTED STEPS: Page 5, Section 3.0
CHANGE REQUIRED: Delete Reg 5; Insert 5a
6. PREPARED BY: Herald A. Simiele 2/26/86
SIGNATURE DATE ENTERED IN PROCEDURE BY: _____
SIGNATURE DATE
7. TEMPORARY APPROVAL: N/A
SIGNATURE DATE SS/Assist. SS _____ DA
8. DEPT. MANAGER: [Signature] 2/26/86
SIGNATURE DATE 9. PRB/PRG/TRRG: [Signature] 3/12/86
SIGNATURE DATE
10. APPROVED BY: [Signature] 3/13/86
DEPARTMENT MANAGER'S SIGNATURE SIGNATURE DATE
11. DATE EFFECTIVE: 03.21.86

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ASSIGNED COPY
PVNGS # 8-9A

DEPT. HEAD Harry F. Seeling for Dennis G. ... DATE 12/4/85
PRB/PRG/TRRG REVIEW CA Zidman DATE 1/2/86
APPROVED BY DR Zygmunt DATE 1/6/86
EFFECTIVE DATE 01.15.86

DN-1598A/0787A

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
<u>5</u>	<u>12-18-84</u>	<u>Complete</u>	<u>Revised Appendices and</u> <u>Callouts</u>
<u>6</u>	<u>02-08-85</u>	<u>Complete</u>	<u>Incorporated PCN's #01 & 02</u> <u>of Rev. 5 Revised Appendices</u> <u>and Callouts.</u>
<u>7</u>	<u>05-10-85</u>	<u>9, 10, 16</u>	<u>Incorporated PCN #01 of Rev.</u> <u>6 and added step for</u> <u>cancellation using group</u> <u>page.</u>
<u>8</u>	<u>06-17-85</u>	<u>3,7,8,9,12,13</u> <u>16,17,18,19,</u> <u>21,23</u>	<u>Added termination message</u> <u>form and instructions.</u> <u>Changed initial and follow-</u> <u>up message 50 actions</u> <u>(circle vs cross-out) are</u> <u>consistent. Changed initial</u> <u>and follow-up message to</u> <u>match changes the state</u> <u>requested. Capitalized</u> <u>announcements to make stand</u> <u>out. Updated all references</u> <u>to the correct appendices.</u>

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
<u>9</u>	<u>09-10-85</u>	<u>4, 5, 7, 9,</u> <u>10, 11, 12,</u> <u>19, 20, 24,</u> <u>25, 26</u>	<u>Incorporated PCN# 1 & 2</u> <u>of Rev. 8. Added specific</u> <u>announcement instructions,</u> <u>instructions for notifying</u> <u>compliance, new group paging</u> <u>system # and added STSC</u> <u>Communication checklist.</u>
<u>10</u>	09-15-85 <i>01-15-86</i>	<u>4, 7, 9, 10, 11</u> <u>12, 13, 14,</u> <u>16, 17, 24,</u> <u>25, 26</u>	<u>Incorporated PCN# 1 & 2 of</u> <u>Rev. 9. Deleted Time/</u> <u>Initials Column in</u> <u>Appendices I and J.</u>

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1.0 OBJECTIVE

- 1.1 This procedure provides a series of implementing actions to be taken upon declaration of a NOTIFICATION OF UNUSUAL EVENT.

*1 per
01*

2.0 REFERENCES

2.1 Implementing References

- 2.1.1 EPIP-02, "Emergency Classification"
- 2.1.2 EPIP-11, "Technical Support Center/Satellite TSC Activation"
- 2.1.3 EPIP-22, "Personnel Injury"
- 2.1.4 EPIP-23, "Fire Fighting"
- 2.1.5 9N219.05.00, "Document/Record Turnover Control"

2.2 Developmental References

- 2.2.1 NUREG-0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."
- 2.2.2 PVNGS Emergency Plan, Rev. 6

3.0 LIMITATIONS AND PRECAUTIONS

- 3.1 Continued surveillance and assessment of plant conditions are necessary to ensure that the emergency classification is appropriately revised as conditions change or more definitive information is obtained.
- 3.2 Notifications to State/County agencies per Appendix A, "Emergency Notification Call List - Emergency Coordinator/STSC Communicator" shall be commenced within 15 minutes of declaration of an emergency.

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1.0 OBJECTIVE

- 1.1 This procedure provides a series of implementing actions to be taken upon declaration of a NOTIFICATION OF UNUSUAL EVENT.

2.0 REFERENCES

2.1 Implementing References

- 2.1.1 EPIP-02, "Emergency Classification"
- 2.1.2 EPIP-11, "Technical Support Center/Satellite TSC Activation"
- 2.1.3 EPIP-22, "Personnel Injury"
- 2.1.4 EPIP-23, "Fire Fighting"
- 2.1.5 9N219.05.00, "Document/Record Turnover Control"

2.2 Developmental References

- 2.2.1 NUREG-0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."
- 2.2.2 PVNCS Emergency Plan, Rev. 6

3.0 LIMITATIONS AND PRECAUTIONS

- 3.1 Continued surveillance and assessment of plant conditions are necessary to ensure that the emergency classification is appropriately revised as conditions change or more definitive information is obtained.
- 3.2 Notifications to State/County agencies per Appendix A, "Emergency Notification Call List - Emergency Coordinator/STSC Communicator" shall be commenced within 15 minutes of declaration of an emergency.
- 3.3 *All notifications should be completed prior to contacting the NRC as the ENS must be manned continuously at the NRC's request.*

RUN#1

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4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

4.1.1 In a NOTIFICATION OF UNUSUAL EVENT situation, time is available to take precautionary and constructive steps to prevent a more serious event and/or to mitigate any consequences that may occur. This event status places the plant in a readiness position for possible cessation of routine activities and/or augmentation of onshift resources. No releases of radioactive material requiring offsite response are expected. Appropriate notification of NRC and state/county authorities is made.

4.1.2 The Shift Supervisor shall be responsible for initiating this procedure. The Emergency Coordinator shall be responsible for completing the implementing actions of this procedure.

4.2 Prerequisites

4.2.1 The emergency has been classified per EPIP-02, "Emergency Classification."

4.3 Instructions

4.3.1 The affected unit Shift Supervisor shall perform the following:

NOTE

Designated Unaffected Unit Shift Supervisor to assume the role of the Emergency Coordinator in the Onshift Emergency Organization are:


Affected Unit	Unaffected Unit Shift Supervisor
Unit 1	Unit 2
Unit 2	Unit 1
Unit 3	Unit 2
Entire Site	Unit 1

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4.3.1.1 Notify the Shift Supervisor of the designated unaffected unit (or Shift Supervisor of an unaffected unit) to report to the Control Room of the affected unit and assume the duties of the onshift Emergency Coordinator. For NOTIFICATION OF UNUSUAL EVENT, it will be at the discretion of the affected unit Shift Supervisor if he is to be relieved as Emergency Coordinator by the shift supervisor of an unaffected unit.

4.3.1.2 Notify the Control Rooms of the unaffected units.

4.3.1.3 Ensure the following is announced over the plant wide telephone page (phone no ).

"ATTENTION ALL PLANT PERSONNEL - A NOTIFICATION OF UNUSUAL EVENT HAS BEEN DECLARED. SATELLITE TECHNICAL SUPPORT CENTER AND OPERATIONS SUPPORT CENTER EMERGENCY PERSONNEL FOR UNIT _____, REPORT TO YOUR EMERGENCY STATION. OTHER PERSONNEL ASSIGNED TO THE EMERGENCY ORGANIZATION - STANDBY. ALL OTHER PERSONNEL CONTINUE WITH NORMAL ROUTINE UNTIL FURTHER NOTICE".

(Give a brief description of the event, if appropriate, and repeat the announcement).

4.3.1.4 Ensure the announcement in step 4.3.1.3 is repeated over the Site Warning Siren/Public Address System.

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NOTE

Protective Action recommendations (Appendix H) are based on plant and containment conditions and these recommendations are made to offsite officials even when no release is in progress.

NOTE

If the emergency is terminated before initial notifications are finished, complete the notifications per Appendix A, then repeat Appendix A with the notification of termination. If the emergency is terminated before initial notification can be started, provide both initiating and terminating messages in the same call.

- 4.3.1.5 Direct the Satellite TSC Communicator to fill out Appendix C, "Initial Emergency Message Form," in accordance with instructions provided in Appendix F, and make notifications per Appendix A.
- 4.3.1.6 Ensure the actions of the appropriate Recovery procedures have been implemented.
- 4.3.2 The Emergency Coordinator/Shift Supervisor shall perform the following:
 - 4.3.2.1 Ensure actuation of the Satellite TSC in accordance with EPIP-11, "Technical Support Center/Satellite TSC Activation."
 - 4.3.2.2 Implement additional Emergency Plan Implementing Procedures according to the situation that resulted in the emergency being classified as a NOTIFICATION OF UNUSUAL EVENT.

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- 4.3.2.3 Determine the need for any additional personnel. If needed, additional personnel should be requested by the existing on-shift organization.
- 4.3.2.4 If it is determined that the OSC is not required to support the emergency response, notify the OSC to deactivate and allow the response personnel to respond to normal work stations.
- 4.3.2.5 Direct the STSC Communicator to prepare Appendix D, "Follow-up Emergency Message Form" in accordance with instructions provided in Appendix F.
- 4.3.2.6 Reevaluate the emergency classification and perform licensee actions as conditions change by implementing EPIP-02.
- 4.3.2.7 When the situation warrants downgrading/upgrading a NOTIFICATION OF UNUSUAL EVENT, proceed to appropriate implementing and notification procedures and direct the Shift Supervisor to announce the reclassification over the public address system and inform the other Control Rooms. Keep PVNGS Plant Manager informed as to status of event.
- 4.3.2.8 Provide over all direction and control of the ONSHIFT emergency response as per Appendix I - Emergency Coordinator Response.
- 4.3.3 PVNGS Security, after being notified by the Emergency Coordinator or STSC Communicator that a NOTIFICATION OF UNUSUAL EVENT is in progress or has occurred, or has been terminated, shall complete Appendix B, "Emergency Notification Call List - PVNGS Security," and notify these individuals or departments of the situation.
- 4.3.4 Emergency Situation Terminated
 - 4.3.4.1 Consult with the PVNGS Plant Manager prior to closing out emergency.

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4.3.4.2 The Shift Supervisor (or Emergency Coordinator) shall ensure the following announcement is made over the plant wide telephone page (phone no. [REDACTED])

"ATTENTION ALL PERSONNEL, THE EMERGENCY SITUATION DECLARED IN UNIT _____ HAS NOW BEEN TERMINATED."
(Provide special instructions as necessary).

4.3.4.3 Ensure the announcement in step 4.3.4.2 is repeated over the site warning siren/public address system.

4.3.4.4 Ensure the announcement in steps 4.3.4.2 and 4.3.4.3 is repeated once.

4.3.4.5 Direct the STSC Communicator to fill out Appendix E, "Emergency Termination Message Form," per instructions provided in Appendix F.

4.3.4.6 Direct the STSC communicator to transmit the termination per Appendix A.

4.3.4.7 The S.S./E.C. shall notify the PVNGS Compliance Dept. at ext. [REDACTED] (or beeper No. [REDACTED] or [REDACTED] during off hours) and request a written summary be provided to offsite authorities within 24 hours. S.S./E.C. shall provide copies of shift logs, control room logs, etc. as requested by Compliance for preparation of the report.

4.3.5 Record Retention

4.3.5.1 Appendices A, B, C, D, E, ^{and} ~~I~~ ^{and} ~~J~~ shall be turned over to the Emergency Planning Dept., mail station 6010, to ensure they are forwarded to DDC for proper storage in accordance with 9N219.05.00, "Document/Record Turnover Control."

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EMERGENCY NOTIFICATION CALL LIST
EMERGENCY COORDINATOR/STSC COMMUNICATOR

AGENCY OR INDIVIDUAL	PRIMARY LINK	ALTERNATE LINK	ALTERNATE LINK	DATE/TIME	INITIAL CALLED	DATE/TIME	TERMINATION CALLED
Arizona Department of Public Safety				/		/	
Maricopa County Sheriff's Office				/		/	
Arizona Radiation Regulatory Agency				/		/	
Arizona Division of Emergency Services				/		/	
Maricopa County Department of Civil Defense and Emergency Services				/		/	
PVNGS Security				/		/	
Group Paging System #1				/		/	
Group Paging System #2				/		/	
PVNGS Plant Manager				/		/	
Operations Manager				/		/	
Manager*				/		/	
Maintenance Manager *				/		/	
Plant Services Manager*				/		/	
Dispatcher (SOC)				/		/	
NRC Headquarters				/		/	

* Call these personnel in sequence until one of them is reached ONLY if unable to contact PVNGS Plant Manager of Operations Manager.

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	PRIMARY LINE	ALTERNATE LINE	INITIAL DATE/TIME	CALLER	TERMINATION DATE/TIME	CALLER
AGENCY OR INDIVIDUAL						
Corporate Security			/		/	
Site Construction Security Office			/		/	
Nuclear Administration			/		/	
ANPP Communications*			/		/	
ANPP Site Construction Office*			/		/	
Bechtel Emergency Control Center			/		/	



*Available during working hours only.

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INITIAL EMERGENCY MESSAGE FORM
NOTIFICATION OF UNUSUAL EVENT
ALERT, SITE AREA EMERGENCY, OR GENERAL EMERGENCY

1. Verbatim text of Message: THIS IS (IS NOT) A DRILL!! (Circle One) THIS IS PALO VERDE NUCLEAR GENERATING STATION (NOTIFICATION OF UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY)
(circle applicable classification)

declared at _____ - _____ - Wind is from _____ degrees - At _____ mph.
(time) (date) (speed)

PALO VERDE AUTHENTICATOR _____
(authenticator letters)

2. This is _____, at the Palo Verde Nuclear Generating
(name/title)
Station Unit _____.

3. (Circle One)

(a) There is NO, repeat NO, radioactive release taking place and no special protective actions are recommended at this time.

OR

(b) There is NO, repeat NO, radioactive release in excess of allowable operating limits and NO protective actions are recommended at this time.

OR

(c) There is NO, repeat NO, radioactive release taking place at this time. However, the following protective actions are recommended.

Sectors	Distance (Miles)
_____	_____
_____	_____

OR

(d) A radioactive release IS, repeat IS, taking place. We recommend that people in affected sectors remain indoors with windows and doors closed.

Sectors	Distance (Miles)
_____	_____
_____	_____

OR

(e) A radioactive release IS, repeat IS, taking place. We recommend that evacuation of affected sectors be considered.

Sectors	Distance (Miles)
_____	_____
_____	_____

4. THIS IS (IS NOT) A DRILL!! (Circle One)

Approved By _____ DATE _____ TIME _____
(SS/EC/EOD)

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FOLLOW-UP EMERGENCY MESSAGE FORM

1. Verbatim text of Message: THIS IS (IS NOT) A DRILL!! (Circle One)
THIS IS A PALO VERDE NUCLEAR GENERATING STATION follow-up information
message concerning the (NOTIFICATION OF UNUSUAL EVENT) (ALERT) (SITE
AREA EMERGENCY) (GENERAL EMERGENCY)
 (circle applicable classification)

declared at _____ - _____
 (time) (date)

2. This is _____, at Palo Verde Nuclear Generating Station. 10
 Unit _____. (name/title)

3. Brief description of event _____

4. Meteorological Data

- a. Wind direction from _____ (degrees) - at _____ miles per hour
 (direction) (speed)

from _____ to _____
 (sector) (sector)

- b. Stability Class: A B C D E F G
 (Circle One)

- c. Precipitation Yes No
 (Circle One)

5. Radiological Data

- a. Radioactivity (check one)
 Has been released
 Has not been released

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5. b. Release Time _____
- c. Reactor Trip Time _____
- d. Location/Source of Release _____

6. Current Release Rates

- a. I-131 Equivalent _____ Ci/second
- b. Noble Gas _____ Ci/second
- c. Particulates _____ Ci/second

7. Two-hour plume centerline projected dose at:

Distance	Sector	Whole Body Dose (REM)	Child Thyroid Dose Commitment (REM)
_____	_____	_____	_____

Site
Boundary

2 miles

5 miles

10 miles

8. Plume arrival time offsite:

_____ 2 mi

_____ 5 mi

_____ 10 mi

_____ Ruth Fisher School

_____ Arlington School

9. Estimated duration of release _____ minutes

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10. The Following Emergency Measures Including Protective Actions are Recommended:

11. The Following Emergency Response Actions are Underway:

12. We Request the Following Onsite Support and Assistance from Offsite Sources:

13. Our Prognosis of the Emergency is that Conditions:

- Are Under Control
 Can Be Expected to Terminate Within ____ hours
 Are Worsening

14. Other Information:

- a) Power Prior to Event ____
b) Current Power on mode ____
c) Mode of Operation Till Correction ____
d) Estimated Time to Restart ____

15. THIS IS (IS NOT) A DRILL!! (Circle One)

10

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EMERGENCY TERMINATION MESSAGE FORM

1. Verbatim text of message: THIS IS (IS NOT) A DRILL!! (Circle One)
THIS IS PALO VERDE NUCLEAR GENERATING STATION. THE (NOTIFICATION OF
UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY)
(circle appropriate classification) DECLARED

AT _____ - _____ HAS BEEN TERMINATED AT
(Time) (Date)

_____ - _____
(Time) (Date)

2. This is _____, at Palo Verde Nuclear Generating Station Unit _____.
(Name) (Title)

3. PALO VERDE AUTHENTICATOR _____
(Authenticator Letters)

Approved: _____
(SS/EC/EOD) Date/Time

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INSTRUCTIONS FOR COMPLETING APPENDIX C, D OR E

1.0 INITIAL EMERGENCY MESSAGE FORM (APPENDIX C)

- 1.1 Fill in data required by steps 1 and 2 of Appendix C, "Initial Emergency Message Form." Obtain authenticator from the confidential envelope marked on the outside with the appropriate month and drill sequence number (if it is a drill).
- 1.2 Obtain from the Radiation Protection Monitor (onshift) data required to complete step 3 of Appendix C.
- 1.3 Circle appropriate wording of step 4 of Appendix C.

NOTE

When the NAN ring button is pushed and it appears that all the receiving stations are on line, or, the ring has stopped, the PVNGS originating station shall initiate a roll call in the order listed below. (Consider the time of day)

NOTE

If the NAN dedicated telephone fails, refer to Appendix G, "Notification Alert Network (NAN) Radio Backup" for instruction on using channel 8, KON-511, for notifications.

- 1.4 By means of a single call on the Notification and Alert Net dedicated telephone, contact the following State/County agencies listed in Appendix A.

Duty Hours (8:00 a.m. to 5:00 p.m. Monday-Friday)

Maricopa County Sheriffs Office
Maricopa County Department of Civil Defense and Emergency Services
Arizona Department of Public Safety
Arizona Division of Emergency Services
Arizona Radiation Regulatory Agency

Off-Duty Hours (5:00 p.m. to 8:00 a.m., Monday-Friday, all day
Saturday, Sunday and Holidays)

Maricopa County Sheriff's Office
Department of Public Safety

CONTROLLED DOCUMENT

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX F Page 2 of 3
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 19 of 26

- 1.5 In the event that an offsite government agency (or agencies) does not answer the NAN phone or NAN backup radio during a test, drill, or actual emergency, the nuclear operator (or STSC Communicator) shall notify the agency via regular PBX telephone (numbers listed in App. A)
- 1.6 When contact is made, the caller shall identify himself and request that the individuals obtain a copy of the appropriate Emergency Message Form.
- 1.7 When each individual has obtained a copy, read the completed Emergency Message Form verbatim and request MCSO to read back verbatim.
- 1.8 Offer to repeat information and reiterate as necessary.

NOTE

To verify the group page activation, monitor the pager installed in the STSC. Be aware that as much as two (2) minutes may lapse between dial-up and the broadcast announcement.

- 1.9 Notify additional personnel as listed in Appendix A as necessary and inform them of the situation. Provide the following message for both Group Paging Systems Notification/Callout:

"THIS IS PVNGS, UNIT ____, CLASSIFICATION ONE, PLEASE RESPOND APPROPRIATELY" (Repeat message once).
- 1.10 If an individual requests information not contained in the Emergency Message Form, make reasonable efforts to obtain and give the information only after all initial notifications have been made.
- 1.11 Contact the NRC via the Emergency Notification System (ENS) dedicated telephone within 60 minutes of declaring an emergency. If the ENS phone fails, use commercial phone or HPN phone as an alternate line.
- 1.12 When contact is made, the caller shall identify himself and read the completed Emergency Message Form verbatim (omit the Palo Verde Authenticator).
- 1.13 Offer to repeat information and reiterate as necessary.

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2.0 FOLLOW-UP EMERGENCY MESSAGE FORM (APPENDIX D)

- 2.1 Fill in data required by steps 1-3 of Appendix D, "Follow-up Emergency Message Form."

NOTE

If the emergency is non-radiological in nature, steps 4-9 may be deleted.

- 2.2 Obtain from the Radiation Protection Monitor data required to complete steps 4-9.
- 2.3 Obtain from the Emergency Coordinator data required to complete steps 10-14.
- 2.4 Circle appropriate wording in step 15.
- 2.5 Dispense information when requested by offsite agencies (NRC or ARRA).

3.0 EMERGENCY TERMINATION MESSAGE FORM (APPENDIX E)

- 3.1 Fill in data required by steps 1-3 to Appendix E, "Emergency Termination Message Form."
- 3.2 Obtain approval from SS/EC/EOD.
- 3.3 Transmit termination per Appendix A.

NOTE

To verify the group page activation, monitor the pager installed in the STSC. Be aware that as much as two (2) minutes may lapse between dial-up and the broadcast announcement.

- 3.4 When using the Group Paging Systems to announce event termination, use the following message:

"THIS IS PVNGS, UNIT _____, EMERGENCY
TERMINATED. PLEASE CANCEL RESPONSE TO EMERGENCY."

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NOTIFICATION ALERT NETWORK (NAN) RADIO BACKUP

CHANNEL 8 - KON511

In case of failure of the NAN ringdown telephone, the NAN backup is Channel 8 on the PVNGS radio. FCC regulations require the Palo Verde designator 'KON-511' be used to precede and conclude all outgoing communications.

1. Take control of the radio channel by saying: "All stations this net," (Repeat) "All stations this net, this is K-O-N 5-1-1 Palo Verde to all 5-1-1 stations, stand by for Warning Point roll call."
2. Wait 30 seconds to allow the offsite agencies to get to their radios, then repeat the previous transmission.

NOTE

After 5 P.M. weekdays, all day Saturday, Sunday or holidays, Maricopa County Sheriff's Office (MCSO) and Department of Public Safety (DPS) will be the only agencies responding.

3. Initiate roll call of the offsite government agencies, allowing stations on the net to respond.
 - 3.1 "5-1-1 Palo Verde to 5-1-1 Maricopa County Sheriff's Office. Do you copy?" Allow response: "5-1-1 MCSO copies."
 - 3.2 "5-1-1 Palo Verde to 5-1-1 Maricopa County Department of Civil Defense & Emergency Services. Do you copy?" (MCDCE&ES) Allow response: "5-1-1 Civil Defense copies."
 - 3.3 "5-1-1 Palo Verde to 5-1-1 Department of Public Safety. Do you copy?" Allow response: "5-1-1 DPS copies."
 - 3.4 "5-1-1 Palo Verde to 5-1-1 Arizona Division of Emergency Services. Do you copy?" Allow response: "5-1-1 ADES (State EOC) copies."
 - 3.5 "5-1-1 Palo Verde to 5-1-1 Arizona Radiation Regulatory Agency. Do you Copy?" Allow response: "5-1-1 ARRA copies."

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NOTIFICATION ALERT NETWORK (NAN) RADIO BACKUP (CONT'D)

CHANNEL 8 - KON511

4. Upon completion of roll call, transmit the notification message verbatim. Take an acknowledgement roll call, allowing MCSO to read the message back in its entirety, and provide assistance or clarification, as needed.
5. Upon completion of the second roll call, announce: "K-O-N 5-1-1 Palo Verde off." This is the required FCC sign-off.
6. Continue notifications per Step 1.8 of Appendix F.

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PROTECTIVE ACTION RECOMMENDATIONS

Classification Category	Protective Actions Recommendations
Notification of Unusual Event- events are in progress which indicate a potential degradation of the level of safety of the plant; however, no releases of radioactive material requiring offsite response/monitoring are expected unless further degradation of safety systems occur.	Inform state and county authorities of NUE status/ cause and based on the situation recommend that no protective action is necessary or to standby for an update due to potential degradation of plant safety.

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EMERGENCY COORDINATOR RESPONSE

POSITION FILLED BY:

Onshift Organization

- 1) Shift Supervisor of the designated unaffected unit
- 2) Shift Supervisor of the affected unit

RESPONSIBILITY:

The individual onsite with the responsibility and authority to immediately and unilaterally initiate emergency actions, including providing notification and protective action recommendations to governmental authorities responsible for implementing offsite emergency measures. Provide overall direction and control of the ONSHIFT Emergency response.

INITIAL RESPONSE

1. Ensure plant wide public address announcement is made as per steps 4.3.1.3 and 4.3.1.4 of this procedure.
2. Activate the Satellite STSC per EPIP-11, "Technical Support Center/Satellite TSC Activation."
3. Commence notification process per Appendix F or direct the STSC Communicator to do same.
4. Notify unaffected unit control rooms of situation.
5. Verify personnel resources are on standby in the OSC.
6. Provide plant wide public address announcement when the the STSC is activated.
7. Implement EIPs according to the situation that resulted in the classification.

SUBSEQUENT RESPONSE

8. As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
 - (1) For a fire, dispatch the Fire Team and order the Security Director to contact the Bechtel or alternate Fire Department for assistance (if required)

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX I Page 2 of 2
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EMERGENCY COORDINATOR RESPONSE

- (2) For personnel injury, contact the First Aid Station and inform them of the situation. Dispatch a First Aid Team, if necessary, and coordinate any required offsite assistance.
9. Determine the need for additional personnel and direct the Security Director to initiate call out.
 10. If it is determined that the OSC is not required to support the emergency response, notify the OSC to deactivate and allow the response personnel to return to normal work stations.
 11. As appropriate, complete Follow-up Emergency Message Form.
 12. Reevaluate the emergency classification as conditions change per EPIP-02, reclassify as necessary. Keep PVNGS Plant Manager informed as to status of event.
 13. Reassess corrective and protective actions. Verify activities underway.

Recovery

14. Consult with the PVNGS Plant Manager prior to closing out emergency.
15. Complete notifications per Appendix F when emergency is closed out or direct the STSC Communicator to do the same.
16. Provide termination announcement or direct Shift Supervisor to provide same per steps 4.3.4.2 and 4.3.4.3 of this procedure.
17. Notify PVNGS Compliance at ext. [REDACTED] of event termination. Provide logs as requested.

* Continuing Activity

CONTROLLED DOCUMENT

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STSC COMMUNICATOR RESPONSE

POSITION FILLED BY: Nuclear Operator from affected unit

RESPONSIBILITY Initiate the notification process as directed by the onshift Emergency Coordinator. Ensure operability of communications equipment. Maintain communications logbook.

IMMEDIATE ACTIONS

STSC Activation

1. Report to the STSC upon notification.

Notification of UNUSUAL EVENT

2. Complete the Initial Emergency Message Form as directed by the onshift Emergency Coordinator or Shift Supervisor.
3. Initiate notification process as directed by Emergency Coordinator (or Shift Supervisor, in his absence).
4. Inform Emergency Coordinator when initial notifications are complete.
5. Contact the Security Director and inform him to call in additional personnel if so directed by Emergency Coordinator.
6. Complete the Follow-up Message Form as directed by the Emergency Coordinator.
- *7. Provide follow-up information when requested by the State/County agencies.
- *8. Maintain records of communications received or transmitted offsite.
9. Complete Emergency Termination Message Form as directed by the onshift Emergency Coordinator or Shift Supervisor upon event termination.
10. Transmit termination per Appendix A.

* Continuing Activity

CONTROLLED DOCUMENT

PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

ASSIGNED COPY

PAGE 1 of 1

PVNGS

8-9A

INTENT CHANGE: NO
YES

1. PROCEDURE TITLE Alert Implementing Actions
2. PROCEDURE NUMBER EPID-04 REV. 9 PCN 1
- 2a. Manager concurrence N/A DATE _____
to exceed 5 PCNs
3. REASON FOR PCN: To make the STSC Communicator aware that the URC may request the EVS to be manned continuously during an event.
4. EXPIRATION: permanent
5. AFFECTED STEPS: Page 6, section 3.0
CHANGE REQUIRED: Delete page 6; Insert 6a
6. PREPARED BY: Hersha A. Simola 2/26/86
SIGNATURE DATE ENTERED IN PROCEDURE BY: _____
SIGNATURE D
7. TEMPORARY APPROVAL: N/A
SIGNATURE DATE SS/Assist. SS D
8. DEPT. MANAGER: Donna S. Jones 2/26/86
SIGNATURE DATE 9. PRB/PRG/TRRG: Donna S. Jones 3/12/86
SIGNATURE D
10. APPROVED BY: JMA 3/13/86
DEPARTMENT MANAGER'S SIGNATURE SIGNATURE D
11. DATE EFFECTIVE: 03.01.86

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ASSIGNED COPY.

PVNGS

8-9A

DEPT. HEAD Harry F. Belong for Dennis Youc DATE 12/4/85
PRB/PRG/TRRG REVIEW [Signature] DATE 1/2/85
APPROVED BY [Signature] DATE 1/6/86
EFFECTIVE DATE 01-15-86

DN-1599A/0180A

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
<u>5</u>	<u>2-28-85</u>	<u>All</u>	<u>Revised Procedure and</u> <u>Appendicies; added steps to</u> <u>clarify procedure and added</u> <u>appendix to provide NAN</u> <u>backup instructions</u>
<u>6</u>	<u>05-10-85</u>	<u>10, 11 and 17</u>	<u>Incorporated PCN #01 of Rev.</u> <u>5 and added step for</u> <u>cancellation of emergency</u> <u>with group page.</u>
<u>7</u>	<u>06-19-85</u>	<u>3, 5, 7, 8,</u> <u>9, 10, 13,</u> <u>14, 17, 18,</u> <u>19, 20, 22,</u> <u>24, 25, & 27</u>	<u>Added termination message</u> <u>form and instructions;</u> <u>Capitalized announcements to</u> <u>make easy to indentify;</u> <u>Added step for announcement</u> <u>if accountability is</u> <u>performed; Changed and</u> <u>updated all referrals to</u> <u>various appendices. Also</u> <u>added note to provide</u> <u>guidance on notifications.</u> <u>Added information on 15</u> <u>minute time requirement.</u>

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
<u>8</u>	<u>09-10-85</u>	<u>4,6,9,11,12,</u> <u>13,14,21,22,</u> <u>26,27,29,30,</u> <u>33,34,36,37,</u> <u>38</u>	<u>Revised to add new plan #'s</u> <u>STSC Communicate checklist,</u> <u>and specific instructions</u> <u>for announcements</u>
<u>9</u>	<u>01-15-86</u>	<u>4,9,10,11,13,12,</u> <u>14,15,16,18,</u> <u>19,26,27,28,</u> <u>29,30,31,32,</u> <u>33,34,35,36,</u> <u>37,38</u>	<u>Incorporated PCN #1 and 2</u> <u>of Rev. 8, deleted</u> <u>time/initials column in</u> <u>Appendices I and J.</u>

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1.0 OBJECTIVE

- 1.1 This procedure provides a series of implementing actions to be taken upon declaration of an ALERT.

2.0 REFERENCES

2.1 Implementing References

- 2.1.1 EPIP-02, "Emergency Classification"
- 2.1.2 EPIP-11, "Technical Support Center/Satellite TSC Activation"
- 2.1.3 EPIP-12, "Operations Support Center Activation"
- 2.1.4 EPIP-13, "Emergency Operations Facility Activation"
- 2.1.5 EPIP-14A, "Release Rate Determination"
- 2.1.6 EPIP-14B, "Initial Dose Assessment"
- 2.1.7 EPIP-15, "Protective Action Guidelines"
- 2.1.8 EPIP-16, "Inplant Surveys and Sampling"
- 2.1.9 EPIP-17, "Onsite/Offsite Surveys and Sampling"
- 2.1.10 EPIP-18, "Emergency Exposure Guidelines"
- 2.1.11 EPIP-19, "Onsite Evacuation"
- 2.1.12 EPIP-20, "Personnel Assembly and Accountability"
- 2.1.13 EPIP-21, "Search and Rescue"
- 2.1.14 EPIP-22, "Personnel Injury"
- 2.1.15 EPIP-23, "Fire Fighting"
- 2.1.16 EPIP-24, "Security"
- 2.1.17 EPIP-25, "Reentry for Recovery Operations"
- 2.1.18 EPIP-26, "Potassium Iodide (KI) Administration"

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- 2.1.19 EPIP-31, "Recovery"
- 2.1.20 EPIP-33, "Offsite Assistance"
- 2.1.21 71AC-9ZZ01, "Event Related Reporting"
- 2.1.22 9N219.05.00, "Document/Record Turnover Control"

pen
01

2.2 Developmental References

- 2.2.1 NUREG-0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- 2.2.2 PVNGS Emergency Plan, Rev. 6

3.0 LIMITATIONS AND PRECAUTIONS

- 3.1 Continued surveillance and assessment of plant conditions are necessary to ensure that the emergency classification is appropriately revised as conditions change or more definitive information is obtained.
- 3.2 Notifications to State/County Agencies per Appendix A, "Emergency Notification Call List-Emergency Coordinator/STSC Communicator" shall commence within 15 minutes of declaration of an emergency.

4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

- 4.1.1 In an ALERT situation, limited releases of radioactive material may occur and radiological/meteorological information may have to be obtained for assessment of onsite and offsite consequences. The emergency response for an ALERT includes activation of onsite and offsite emergency centers. An ALERT calls for prompt initial and follow-up notification to offsite emergency management organizations. The ALERT status is maintained until the event is terminated or reclassified.

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- 2.1.19 EPIP-31, "Recovery"
- 2.1.20 EPIP-33, "Offsite Assistance"
- 2.1.21 71AC-9ZZ01, "Event Related Reporting"
- 2.1.22 9N219.05.00, "Document/Record Turnover Control"

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3.0 LIMITATIONS AND PRECAUTIONS

- 3.1 Continued surveillance and assessment of plant conditions are necessary to ensure that the emergency classification is appropriately revised as conditions change or more definitive information is obtained.
 - 3.2 Notifications to State/County Agencies per Appendix A, "Emergency Notification Call List-Emergency Coordinator/STSC Communicator" shall commence within 15 minutes of declaration of an emergency.
 - 3.3 *All notifications should be completed prior to contacting the NRC as the EUS must be manned continuously at the NRC's request.*
- ## 4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

- 4.1.1 In an ALERT situation, limited releases of radioactive material may occur and radiological/meteorological information may have to be obtained for assessment of onsite and offsite consequences. The emergency response for an ALERT includes activation of onsite and offsite emergency centers. An ALERT calls for prompt initial and follow-up notification to offsite emergency management organizations. The ALERT status is maintained until the event is terminated or reclassified.

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4.1.2 The Shift Supervisor or Emergency Coordinator shall be responsible for initiating and completing implementing actions of this procedure.

4.2 Prerequisites

4.2.1 The emergency has been classified per EPIP-02, "Emergency Classification."

4.3 Instructions

4.3.1 The affected unit Shift Supervisor shall perform the following:

NOTE

Designated Unaffected Unit Shift Supervisor to assume the role of the Emergency Coordinator in the Onshift Emergency Organization are:

Affected Unit	Unaffected Unit Shift Supervisor
Unit 1	Unit 2
Unit 2	Unit 1
Unit 3	Unit 2
Entire Site	Unit 1

4.3.1.1 Notify the Shift Supervisor of the designated unaffected unit (or Shift Supervisor of an unaffected unit) to report to the Control Room of the affected unit and assume the duties of the Emergency Coordinator.

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NOTE

Initial notifications shall be made from the Satellite TSC by the Satellite TSC Communicator until activation of the EOF. At that time, all subsequent initial and follow up notifications shall be made by the Government Liaison Engineer in the EOF.

NOTE

If the emergency situation is terminated before initial notifications are finished, complete the notifications per Appendix A. Then repeat Appendix A with the notification of termination. If the emergency is terminated before initial notifications can be started, provide both initiating and terminating messages in the same call.

NOTE

Protective action recommendations (Appendix H) are based on plant and containment conditions and these recommendations are made to offsite officials even when no release is in progress.

- 4.3.1.2 Notify the Control Rooms of the unaffected units.
- 4.3.1.3 Direct the Satellite TSC Communicator (or Government Liaison Engineer) to fill out Appendix C, "Initial Emergency Message Form," in accordance with instructions provided in Appendix F.

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NOTE

Assembly and accountability should only be performed if deemed necessary by the Shift Supervisor to maximize the health and safety of station personnel. If the decision is made to perform assembly/accountability, skip steps 4.3.1.4 and 4.3.1.5. If not, perform step 4.3.1.4 and 4.3.1.5 and skip steps 4.3.1.6, 4.3.1.7 and 4.3.1.8 and 4.3.1.9.

ACCOUNTABILITY NOT PERFORMED

- 4.3.1.4 Ensure the following announcement is made over the plant wide telephone page (phone no.)

"ATTENTION ALL PLANT PERSONNEL, AN EMERGENCY SITUATION CLASSIFIED AS AN ALERT EXISTS IN UNIT _____. ALL AFFECTED UNIT EMERGENCY RESPONSE PERSONNEL AND ALTERNATES REPORT TO YOUR EMERGENCY LOCATION. ALL OTHER PERSONNEL STANDBY UNTIL FURTHER NOTICE. (Provide instructions on route(s) or area(s) to avoid as appropriate and repeat the announcement.)

- 4.3.1.5 Ensure the announcement in step 4.3.1.4 is repeated over the site warning siren/public address system.

ACCOUNTABILITY PERFORMED

- 4.3.1.6 Ensure the accountability signal is sounded for approximately one (1) minute to alert personnel.

- 4.3.1.7 Ensure the following announcement is made over the plant wide telephone page (phone no.)

"ATTENTION ALL PLANT PERSONNEL. AN EMERGENCY SITUATION CLASSIFIED AS AN ALERT EXISTS IN UNIT _____. ALL AFFECTED UNIT EMERGENCY RESPONSE PERSONNEL AND ALTERNATES REPORT TO YOUR EMERGENCY LOCATION. ALL OTHER PERSONNEL REPORT TO YOUR ASSIGNED ASSEMBLY AREA." (Provide instructions on route(s) or area(s) to avoid as appropriate.)

- 4.3.1.8 Ensure the announcement in step 4.3.1.7 is repeated over the Site Warning Siren/Public Address System.

- 4.3.1.9 Ensure the accountability signal is resounded and the announcement in steps 4.3.1.7 and 4.3.1.8 is repeated.

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- 4.3.1.10 Ensure that the actions of the appropriate Recovery procedures have been implemented.
- 4.3.2 The Emergency Coordinator/Shift Supervisor shall perform the following:
 - 4.3.2.1 Ensure activation of the Satellite TSC in accordance with EPIP-11, "Technical Support Center/Satellite TSC Activation."
 - 4.3.2.2 Implement additional Emergency Plan Implementing Procedures according to the situation that resulted in the emergency being classified as an ALERT.
 - 4.3.2.3 Direct the Security Director to call in the Onsite and Offsite Emergency Organization personnel by utilizing the appropriate computer call-out listing.
 - 4.3.2.4 Direct the STSC Communicator (or Government Liaison Engineer) to prepare Appendix D, "Followup Emergency Message Form" in accordance with instructions provided in Appendix F.
 - 4.3.2.5 Determine the need for offsite assistance. If assistance is necessary, direct a Communicator to contact the required agency per EPIP-33, "Offsite Assistance."
 - 4.3.2.6 Reevaluate the emergency classification and perform license actions as conditions change by implementing procedure EPIP-02.
 - 4.3.2.7 When the situation warrants downgrading/upgrading an ALERT, proceed to appropriate implementing and notification procedures and direct the Shift Supervisor to announce the reclassification over the public address system and inform the other Control Rooms.
 - 4.3.2.8 Provide overall direction and control of the ONSHIFT emergency response as per Appendix I - Emergency Coordinator Response.
- 4.3.3 PVNGS Security, after being notified by the Emergency Coordinator or STSC Communicator that an alert is in progress or has occurred, or has been terminated, shall complete Appendix B, "Emergency Notification Call List - PVNGS Security," and notify these individuals or departments of the situation.

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4.3.4 Operations Support Center (OSC) Activation

4.3.4.1 The OSC Coordinator shall implement EPIP-12, "Operations Support Center Activation."

4.3.5 Emergency Operations Facility (EOF) Activation

4.3.5.1 The Emergency Operations Director shall implement EPIP-13, "Emergency Operations Facility Activation."

4.3.6 Emergency Situation Terminated

NOTE

Sound the 'All Clear' signal only if assembly and accountability has been initiated.

4.3.6.1 The Shift Supervisor (or Emergency Coordinator) shall ensure the All Clear signal is sounded for approximately (1) minute and that the following announcement is made over the plant wide telephone page (phone no. 800):

"ATTENTION ALL PERSONNEL. THE EMERGENCY SITUATION DECLARED IN UNIT _____ HAS NOW BEEN TERMINATED". (Provide special instructions as necessary)

4.3.6.2 Ensure the announcement in step 4.3.6.1 is repeated over the Site Warning Siren/Public Address System.

4.3.6.3 Ensure steps 4.3.6.1 and 4.3.6.2 are repeated once.

4.3.6.4 Direct the STSC Communicator (or Government Liaison Engineer) to fill out Appendix E, "Emergency Termination Message Form," per instructions provided in Appendix F.

4.3.6.5 Direct the STSC Communicator (or Government Liaison Engineer) to transmit the termination per Appendix A.

4.3.6.6 At closeout or reduction of the ALERT classification, the S.S./E.C. shall notify the PVNGS Compliance Dept. at ext. _____ or beeper _____ and request a written summary be provided to offsite authorities within eight (8) hours. S.S./E.C. shall provide copies of shift logs, control room logs, etc., as requested by Compliance for preparation of the report.

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4.3.7 Record Retention

4.3.7.1 Appendices A, B, C, D, E, ~~I~~, and ^{Had} ~~I~~ shall be turned over to the Emergency Planning Dept., mail station 6010, to ensure they are forwarded to DDC for proper storage in accordance with 9N219.05.00, "Document/Record Turn Over Control."

9

CONTROLLED DOCUMENT

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9

EMERGENCY NOTIFICATION CALL LIST - PVNGS SECURITY

AGENCY OR INDIVIDUAL	PRIMARY LINK	ALTERNATE LINK	INITIAL CALLER DATE/TIME	TERMINATION DATE/TIME	CALLER
Corporate Security	[REDACTED]		/	/	
Site Construction Security Office			/	/	
Nuclear Administration			/	/	
ANPP Communications*			/	/	
ANPP Site Construction Office*			/	/	
Bechtel Emergency Control Center			/	/	

*Available during working hours only.

CONTROLLED DOCUMENT

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EMERGENCY NOTIFICATION CALL LIST
EMERGENCY COORDINATOR/STSC COMMUNICATOR

AGENCY OR INDIVIDUAL	PRIMARY LINK	ALTERNATE LINK	ALTERNATE LINK	DATE/TIME	INITIAL CALLER	DATE/TIME	TERMINATION CALLER
Arizona Department of Public Safety				/		/	
Maricopa County Sheriff's Office				/		/	
Arizona Radiation Regulatory Agency				/		/	
Arizona Division of Emergency Services				/		/	
Maricopa County Department of Civil Defense and Emergency Services				/		/	
PVNGS Security				/		/	
Group Paging System #1				/		/	
Group Paging System #2				/		/	
PVNGS Plant Manager				/		/	
Operations Manager				/		/	
Manager*				/		/	
Maintenance Manager*				/		/	
Plant Services Manager*				/		/	
Dispatcher (SOC)				/		/	
NRC Headquarters				/		/	

* Call these personnel in sequence until one of them is reached **ONLY** if unable to contact PVNGS Plant Manager or Operations Manager.

CONTROLLED DOCUMENT

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INITIAL EMERGENCY MESSAGE FORM
NOTIFICATION OF UNUSUAL EVENT,
ALERT, SITE AREA EMERGENCY, OR GENERAL EMERGENCY

1. Verbatim text of Message: THIS IS (IS NOT) A DRILL (Circle One) THIS IS PALO VERDE NUCLEAR GENERATING STATION (NOTIFICATION OF UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY)
(circle applicable classification)
declared at _____ - _____ - Wind is from _____ degrees - At _____ mph.
(time) (date) (speed)

PALO VERDE AUTHENTICATOR _____
(authenticator letters)

2. This is _____, at the Palo Verde Nuclear Generating Station Unit _____. (name/title)

3. (Circle One)

(a) There is NO, repeat NO, radioactive release taking place and no special protective actions are recommended at this time.

OR

(b) There is NO, repeat NO, radioactive release in excess of allowable operating limits and NO protective actions are recommended at this time.

OR

(c) There is NO, repeat NO, radioactive release taking place at this time. However, the following protective actions are recommended.

Sectors	Distance (Miles)
_____	_____
_____	_____

OR

(d) A radioactive release IS, repeat IS, taking place. We recommend that people in affected sectors remain indoors with windows and doors closed.

Sectors	Distance (Miles)
_____	_____
_____	_____

OR

(e) A radioactive release IS, repeat IS, taking place. We recommend that evacuation of affected sectors be considered.

Sectors	Distance (Miles)
_____	_____
_____	_____

4. THIS IS (IS NOT) A DRILL (Circle One)

Approved _____
(SS/EC/EOD) Date Time

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FOLLOW-UP EMERGENCY MESSAGE FORM

1. Verbatim text of Message: THIS IS (IS NOT) A DRILL (Circle One) THIS IS
A PALO VERDE NUCLEAR GENERATING STATION follow-up information message
concerning the (NOTIFICATION OF UNUSUAL EVENT) (ALERT) (SITE AREA
EMERGENCY) (GENERAL EMERGENCY)

(circle applicable classification)

declared at _____ - _____

(time) (date)

2. This is _____, at Palo Verde Nuclear Generating Station
 Unit _____. (name/title)

3. Brief description of event _____

4. Meteorological Data

- a. Wind direction from _____ (degrees) - at _____ miles per hour
 (direction) (speed)

from _____ to _____
 (sector) (sector)

- b. Stability Class: A B C D E F G
 (Circle One)

- c. Precipitation Yes No
 (Circle One)

5. Radiological Data

- a. Radioactivity (check one)
- () Has been released
- () Has not been released

CONTROLLED DOCUMENT

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5. b. Release Time _____
c. Reactor Trip Time _____
d. Location/Source of Release _____

6. Current Release Rates

- a. I-131 Equivalent _____ Ci/second
b. Noble Gas _____ Ci/second
c. Particulates _____ Ci/second

7. Two-hour plume centerline projected dose at:

Distance	Sector	Whole Body Dose (REM)	Child Thyroid Dose Commitment (REM)
----------	--------	--------------------------	---

Site
Boundary

2 miles

5 miles

10 miles

8. Plume arrival time offsite:

_____ 2 mi
_____ 5 mi
_____ 10 mi
_____ Ruth Fisher School
_____ Arlington School

9. Estimated duration of release _____ minutes

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10. Following Emergency Measures Including Protective Actions are Recommended:

11. The Following Emergency Response Actions are Underway:

12. We Request the Following Onsite Support and Assistance from Offsite Sources:

13. Our Prognosis of the Emergency is that Conditions:

- Are Under Control
- Can be Expected to Terminate Within ___ hours
- Are Worsening

14. Other Information:

- a) Power Prior to Event (%) _____
- b) Current Power or Mode _____
- c) Mode of Operation till Correction _____
- d) Estimated Time to Restart _____

15. THIS IS (IS NOT) A DRILL (Circle One)

CONTROLLED DOCUMENT

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EMERGENCY TERMINATION MESSAGE FORM

1. Verbatim text of message: THIS IS (IS NOT) A DRILL!! (Circle One)
THIS IS PALO VERDE NUCLEAR GENERATING STATION. THE (NOTIFICATION OF
UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY)
(circle appropriate classification) DECLARED

AT _____ - _____ HAS BEEN TERMINATED AT
(Time) (Date)

_____ - _____
(Time) (Date)

2. This is _____, at Palo
(Name) (Title)

Verde Nuclear Generating Station Unit _____

3. PALO VERDE AUTHENTICATOR _____
(Authenticator Letters)

Approved: _____
(SS/EC/EOD) Date/Time

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INSTRUCTIONS FOR COMPLETING APPENDIX C, D OR E

1.0 Initial Emergency Message Form (Appendix C)

- 1.1 Fill in data required by Steps 1 and 2 of Appendix C, "Initial Emergency Message Form." Obtain Authenticator from the confidential envelope marked on the outside with the appropriate month and a drill sequence number (if it is a drill).
- 1.2 Obtain from the Radiation Protection Monitor (onshift) or the Radiological Assessment Coordinator (if EOF is activated) data required to complete Step 3 of Appendix C.
- 1.3 Circle appropriate wording of Step 4 of Appendix C.

NOTE

When the NAN ring button is pushed and it appears that all the receiving stations are on line or the ring has stopped, the PVNGS originating station shall initiate a roll call in order listed below. (Consider the time of day)

NOTE

If the NAN dedicated telephone fails, refer to Appendix G, "Notification Alert Network (NAN) Radio Backup," for instructions on using channel 8, KON-511, for notification.

- 1.4 By means of a single call on the Notification and Alert Net dedicated telephone, contact the following State/County agencies listed in Appendix A.

Duty Hours (8:00 a.m. to 5:00 p.m. Monday-Friday)

Maricopa County Sheriff's Office
Maricopa County Department of Civil Defense and Emergency Services
Arizona Department of Public Safety
Arizona Division of Emergency Services
Arizona Radiation Regulatory Agency.

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Off-Duty Hours (5:00 p.m. to 8:00 a.m., Monday-Friday, all day Saturday, Sunday and Holidays)

Maricopa County Sheriff's Office
Department of Public Safety

- 1.5 In the event that an offsite government agency (or agencies) does not answer the NAN phone or NAN backup radio during a test, drill or actual emergency, the nuclear operator (or STSC Communicator) shall notify the agency via regular PBX telephone (numbers listed in Appendix A).
- 1.6 When contact is made, the caller shall identify himself and request that the individuals obtain a copy of the appropriate Emergency Message Form.
- 1.7 When each individual has obtained a copy, read the completed Emergency Message Form verbatim and request MCSO to read back verbatim. Perform warning point roll call.
- 1.8 Offer to repeat information and reiterate as necessary.

NOTE

To verify the group page activation monitor the pager installed in the STSC. Be aware that as much as two (2) minutes may lapse between dial-up and the broadcast announcement.

- 1.9 Notify additional personnel as listed in Appendix A as necessary and inform them of the situation. Provide the following message for both Group Paging Systems Notification/Callout:

"THIS IS PVNGS, UNIT _____, CLASSIFICATION TWO,
PLEASE RESPOND APPROPRIATELY." (Repeat message once).
- 1.10 If an individual requests information not contained in the Emergency Message Form, make reasonable efforts to obtain and give the information only after all initial notifications have been made.
- 1.11 Contact the NRC via the Emergency Notification System (ENS) dedicated telephone within 60 minutes of declaring an emergency. If the ENS fails, use the commercial telephone or HPN phone as an alternate line.
- 1.12 When contact is made, the caller shall identify himself and read the completed Emergency Message Form verbatim (omit the Palo Verde Authenticator).

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1.13 Offer to repeat information and reiterate as necessary.

2.0 Follow-up Emergency Message Form (Appendix D)

2.1 Fill in data required by Steps 1-3 of Appendix D, "Follow-up Emergency Message Form."

NOTE

If the emergency is non-radiological in nature, steps 4-9 may be deleted.

2.2 Obtain the Radiation Protection Monitor or the Radiological Assessment Coordinator (if EOF is activated) data required to complete Steps 4-9.

2.3 Obtain the Emergency Coordinator or the Technical Analysis Coordinator (if EOF is activated) data required to complete Steps 10-14.

2.4 Circle appropriate wording in Step 15.

2.5 Dispense information when asked by offsite Agencies (NRC or ARRA).

3.0 EMERGENCY TERMINATION MESSAGE FORM (APPENDIX E)

3.1 Fill in data required by steps 1-3 of Appendix E. "Emergency Termination Message Form."

3.2 Obtain approval from SS/EC/EOD.

3.3 Transmit termination per Appendix A.

NOTE

To verify the group page activation monitor the pager installed in the STSC. Be aware that as much as two (2) minutes may lapse between dial-up and the broadcast announcement.

3.4 When using the Group Paging Systems to announce event termination, use the following message:

"THIS IS PVNGS, UNIT _____, EMERGENCY TERMINATED.
PLEASE CANCEL RESPONSE TO EMERGENCY."

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NOTIFICATION ALERT NETWORK (NAN) RADIO BACKUP Channel 8 - KON511

In case of failure of the NAN ringdown telephone, the NAN backup is Channel 8 on the PVNGS radio. FCC regulations require the Palo Verde Designator 'KON511' be used to precede and conclude all outgoing communications.

1. Take control of the radio channel by saying: "All stations this net," (Repeat) "All stations this net, this is K-O-N 5-1-1 Palo Verde. 5-1-1 Palo Verde to all 5-1-1 stations, stand by for Warning Point roll call."
2. Wait thirty seconds to allow the offsite agencies to get to their radios, then repeat the previous transmission.

NOTE

After 5 P.M. weekdays, all day Saturday, Sunday or on holidays, Maricopa County Sheriff's Office (MCSO) and Department of Public Safety (DPS) will be the only agencies responding.

3. Initiate roll call of the offsite government agencies, allowing stations on the net to respond.
 - 3.1 "5-1-1 Palo Verde to 5-1-1 Maricopa County Sheriff's Office. Do you copy?"
Allow Response: "5-1-1 MCSO copies."
 - 3.2 "5-1-1 Palo Verde to 5-1-1 Maricopa County Department of Civil Defense & Emergency Services. Do you copy?" (MCD&ES)
Allow response: "5-1-1 Civil Defense copies."
 - 3.3 "5-1-1 Palo Verde to 5-1-1 Department of Public Safety. Do you copy?"
Allow response: "5-1-1 DPS copies."
 - 3.4 "5-1-1 Palo Verde to 5-1-1 Arizona Division of Emergency Services. Do you copy?"
Allow response: "5-1-1 ADES (State EOC) copies."
 - 3.5 "5-1-1 Palo Verde to 5-1-1 Arizona Radiation Regulatory Agency. Do you copy?"
Allow response: "5-1-1 ARRA copies."

CONTROLLED DOCUMENT

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4. Upon completion of roll call, transmit the notification message verbatim. Take acknowledgement roll call, allowing MCSO to read the message back in its entirety, and provide assistance or clarification, as needed.
5. Upon completion of the second roll call, announce: "K-O-N 5-1-1 Palo Verde off." This is the required FCC sign-off.
6. Continue notifications per Step 1.8 Appendix F.

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PROTECTIVE ACTION RECOMMENDATIONS

Classification
Category

Protective Actions
Recommendations

Alert-
any releases are expected to
be limited to a small fraction
of the EPA/PAG exposure levels
at the site boundary unless
further degradation of safety
systems occur.

Inform the state and county
authorities of the ALERT
status/cause and recommend
that the public be appraised
of the situation and stay
tuned to EBS/KTAR radio
station.

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

POSITION FILLED BY:

- (1) PVNGS Plant Manger
- (2) Manager, Technical Support
- (3) Shift Supervisor, Unaffected Unit

RESPONSIBILITY:

The individual onsite with the responsibility and authority to immediately and unilaterally initiate emergency actions, including providing notification and protective action recommendations to Governmental authorities responsible for implementing offsite emergency measures. Provide for the control and coordination of onsite emergency response.

NOTE

Refer to the following pages per appropriate facility activation.

<u>Facility Activated</u>	<u>Appendix I Page</u>
STSC	1 - 4
TSC	5 - 8
TSC/EOF	9 - 11

INITIAL RESPONSE

1. Receive notification from the Shift Supervisor and report to the Control Room of the affected unit.
2. Ensure plant wide public address announcement is made as per steps 4.3.1.4, 4.3.1.5 or 4.3.1.7, 4.3.1.8 of this procedure as appropriate.
3. Review plant status, initiating event, corrective actions and emergency classification with the Shift Supervisor per EPIP-02, "Emergency Classification."

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

4. Assume position of the onshift Emergency Coordinator.
5. Activate the Satellite STSC per EPIP-11, "Technical Support Center/Satellite TSC Activation."
6. Commence notification process per Appendix F or direct the STSC Communicator to do so.
 - (1) Direct the Security Director to call in the PVNGS onsite and offsite Emergency Organization personnel.
7. Provide plant wide public address announcement when the STSC is activated.
8. Verify personnel resources are on standby in the OSC.
9. Reevaluate the emergency classification as conditions change per EPIP-02 "Emergency Classification," reclassify as necessary.
10. As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
 - (1) For a fire, dispatch the Fire Team and order the Security Director to contact the Bechtel or alternate offsite fire department for assistance (if required).
 - (2) For personnel injury, contact the First Aid Station and inform them of the situation. Dispatch a First Aid Team, if necessary, and coordinate any required offsite assistance.
11. Determine any additional protective action recommendations to be provided to state and county response agencies per EPIP-15, "Protective Action Guidelines."
12. As appropriate, complete Follow-up Emergency Message Form.
13. Determine the need for offsite support and direct the STSC Communicator to call location(s) in EPIP-33, "Offsite Assistance" and arrange access with the Security Director per EPIP-24, "Security."

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

Personnel Assembly and Accountability (If Assembly/Accountability Performed)

14. Within 30 minutes of the accountability signal receive a report on accountability in the protected area from the Security Director.
15. Be prepared to implement EPIP-21, "Search and Rescue" by providing necessary data to the OSC Coordinator.
16. Receive report on site area accountability.

Emergency Exposures and KI

17. Per EPIP-18, "Emergency Exposures Guidelines," and as necessary, authorize emergency exposures.
18. As necessary, authorize administration of KI per EPIP-26, "Potassium Iodide (KI) Administration" to emergency workers desiring to use it. Consult with the Radiation Protection Monitor.

TSC Activation and Transfer to Authority

19. When relieved by the onsite Emergency Coordinator, provide a briefing and transfer responsibilities.

OSC Activation

20. If a release is occurring, consult EPIP-12, "Operations Support Center Activation," to determine habitability of primary OSC.
21. If uninhabitable, direct the OSC Coordinator to relocated staff and equipment/supplies to the alternate OSC (Service Building). If this is also uninhabitable, direct the OSC Coordinator to relocate to a protected area (Control Room/ STSC, TSC or EOF).

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

Security

22. As necessary, implement EPIP-24, "Security" and order the Security Director to limit access to the station, contact the Maricopa County Sheriff's Office for assistance in controlling site access, and arrange access for necessary personnel not on the Emergency Personnel Access List and/or not having access to the protected area via card-key system.
23. Ensure the Security Director is appraised of offsite assistance requests to arrange access.

Corrective Actions

24. Determine needs, consult with staff, authorize reentry per EPIP-25, "Reentry for Emergency Operations."

Assessment Actions

25. Ensure that the Radiation Protection Monitor is obtaining needed data using EPIP-14A, "Release Rate Determination," EPIP-14B, "Initial Dose Assessment," EPIP-16, "Inplant Surveys and Sampling" and EPIP-17, "Onsite/Offsite Surveys and Sampling."

Protective Actions

26. Continue to evaluate the need for providing any additional protective action recommendations to state and county agencies.
27. Determine the need for early dismissal/evacuation of non-essentials per EPIP-19, "Onsite Evacuation." (If assembly/accountability performed.)

Event Termination or Reduction

28. Contact PVNGS Compliance at ext. [REDACTED] or [REDACTED] to provide written summary within 8 hours to offsite authorities. Provide documentation as requested.

CONTROLLED DOCUMENT

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

INITIAL RESPONSE

1. Receive notification from the onshift Emergency Coordinator and report to TSC. Upon arrival, sign in on the TSC Staffing Board.
2. Receive a briefing from the onshift Emergency Coordinator and assume responsibilities.
3. Brief TSC staff and evaluate adequacy of TSC activation.
4. Declare the TSC operational and inform the STSC, Control Rooms, OSC, EOF, ANPP Site Construction Office, Bechtel Emergency Control Center and PVNGS Security via a site wide public address announcement. This notification may be delegated to the Information Monitor in the TSC.
5. As necessary, continue with or commence notification process per Appendix F or direct STSC Communicator to do so.
6. Verify personnel resources are on standby in the OSC.

SUBSEQUENT RESPONSE

7. Reevaluate the emergency classifications conditions change per EPIP-02, "Emergency Classification," reclassify as necessary.
8. As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
 - (1) For a fire, dispatch Fire Team and order the Security Director to contact the Bechtel or alternate offsite fire department for assistance (if required).
 - (2) For personnel injury, contact the First Aid Station and inform them of the situation. Dispatch a First Aid Team, if necessary, and coordinate any required offsite assistance.

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

9. Determine any additional protective action recommendations to be provided to state and county response agencies per EPIP-15, "Protective Action Guidelines."
10. As appropriate, complete Follow-up Emergency Message Form.
11. Determine the need for offsite support and direct a Communicator to call locations(s) in EPIP-33, "Offsite Assistance" and arrange access with the Security Director per EPIP-24, "Security."

Personnel Assembly and Accountability (If Assembly/Accountability Performed)

12. Within 30 minutes of the accountability signal, receive a report on accountability in the protected area from the Security Director.
13. Be prepared to implement EPIP-21, "Search and Rescue," by providing necessary data to the OSC Coordinator (via Emergency Maintenance Coordinator).
14. Receive report on site area accountability.

Emergency Exposures and KI

15. Per EPIP-18, "Emergency Exposure Guidelines" and as necessary, authorize emergency exposures.
16. As necessary, authorize administration of KI per EPIP-26 to emergency workers desiring to use it. Consult with the Radiological Protection Coordinator.

OSC Activation

17. If a release is occurring, consult Appendix B of EPIP-12, "Operations Support Center Activation" to determine habitability of primary OSC.

CONTROLLED DOCUMENT

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

18. If uninhabitable, direct the OSC Coordinator to relocate staff and equipment/supplies to the alternate OSC (Service Building). If this is also uninhabitable, direct the OSC Coordinator to relocate to a protected area (Control Room/ STSC, TSC or EOF).

EOF Activation

19. Per EPIP-13, "Emergency Operations Facility Activation," brief the Emergency Operations Director and transfer the responsibilities for notifications and protective action recommendations.

Security

20. As necessary, implement EPIP-24, "Security" and order the Security Director to limit access to the station, contact Maricopa County Sheriff's Office for assistance in controlling site access, and arrange access for necessary personnel not on the Emergency Personnel Access List and/or not having access to the protected area via card-key system.
21. Ensure the Security Director is appraised of offsite assistance requests to arrange access.

Corrective Action

22. Determine needs, consult with staff, authorize reentry per EPIP-25, "Reentry for Emergency Operations."
23. Ensure that the Radiological Protection Coordinator is obtaining needed data using EPIP-14A, "Release Rate Determination," EPIP-14B, "Initial Dose Assessment," EPIP-16, "Inplant Surveys and Sampling" and EPIP-17, "Onsite/Offsite Surveys and Sampling."

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

Protective Actions

24. Continue to evaluate the need for providing any additional protective action recommendations.
25. Determine the need for early dismissal/evacuation of non-essentials per EPIP-19, "Onsite Evacuation." (If Assenbly/Accountability Performed.)

Recovery

26. After the EOF is activated consult with Emergency Operations Director concerning implementing EPIP-31, "Recovery."

Event Termination or Reduction

27. Contact PVNGS Compliance at ext. [REDACTED] or beeper [REDACTED] or [REDACTED] to provide written summary within 8 hours to offsite authorities. Provide documentation as requested.

CONTROLLED DOCUMENT

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EMERGENCY COORDINATOR RESPONSE TSC AND EOF ACTIVATED

INITIAL RESPONSE

1. Receive notification from the onshift Emergency Coordinator and report to the TSC or Control Room of affected unit. Upon arrival at the TSC, sign in on the TSC Staffing Board.
2. Receive a briefing from the onshift Emergency Coordinator and assume responsibilities.
3. Brief TSC staff and evaluate adequacy of TSC activation.
4. Declare the TSC operational and inform the STSC, Control Rooms, OSC, EOF, ANPP Site Construction Office, Bechtel Emergency Control Center and PVNGS Security via a site wide public address announcement. This notification may be delegated to the Information Monitor in the TSC.
5. Per EPIP-13, "Emergency Operations Facility Activation," brief the Emergency Operations Director and transfer the responsibilities for notifications and protective action recommendations.
6. Verify personnel resources are on standby in the OSC.

SUBSEQUENT RESPONSE

7. Reevaluate the emergency classifications conditions change per EPIP-02, reclassify as necessary.
8. As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
 - (1) For a fire, dispatch Fire Team and order the Security Director to contact the Bechtel or alternate offsite fire department for assistance (if required).
 - (2) For personnel injury, contact the First Aid Station and inform them of the situation. Dispatch a First Aid Team, if necessary, and coordinate any required offsite assistance.

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EMERGENCY COORDINATOR RESPONSE TSC AND EOF ACTIVATED

9. Determine the need for offsite support and direct a Communicator to call locations(s) in EPIP-33, "Offsite Assistance" and arrange access with the Security Director per EPIP-24, "Security," and coordinate with the Administration and Logistics Coordinator at the EOF.

Personnel Assembly and Accountability (If Assembly/Accountability Performed)

10. Within 30 minutes of the accountability signal, receive a report on accountability in the protected area from the Security Director.
11. Be prepared to implement EPIP-21, "Search and Rescue," by providing necessary data to the OSC Coordinator (via Emergency Maintenance Coordinator).
12. Receive report on site area accountability

Emergency Exposures and KI

13. Per EPIP-18, "Emergency Exposure Guidelines" and as necessary, authorize emergency exposures.
14. As necessary, authorize administration of KI per EPIP-26 to emergency workers desiring to use it. Consult with the Radiological Protection Coordinator.

OSC Activation

15. If a release is occurring, consult EPIP-12, "Operations Support Center Activation" to determine habitability of primary OSC.
16. If uninhabitable, direct the OSC Coordinator to relocate staff and equipment/supplies to the alternate OSC (Service Building). If this is also uninhabitable, direct the OSC Coordinator to relocate to a protected area (Control Room/ STSC, TSC or EOF).

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EMERGENCY COORDINATOR RESPONSE TSC AND EOF ACTIVATED

Security

17. As necessary, implement EPIP-24, "Security" and order the Security Director to limit access to the station, contact Maricopa County Sheriff's Office for assistance in controlling site access, and arrange access for necessary personnel not on the Emergency Personnel Access List and/or not having access to the protected area via card-key system.
18. Ensure the Security Director is appraised of offsite assistance requests to arrange access.

Corrective Action

19. Determine needs, consult with staff, authorize reentry per EPIP-25, "Reentry for Emergency Operations."

Assessment Actions

20. Ensure that the Radiological Protection Coordinator is obtaining needed data using EPIP-14A, "Release Rate Determination," EPIP-14B, "Initial Dose Assessment," EPIP-16, "Inplant Surveys and Sampling" and EPIP-17, "Onsite/Offsite Surveys and Sampling."

Protective Actions

(If Assembly/Accountability Performed)

21. Determine the need for early dismissal/evacuation of non-essentials per EPIP-19, "Onsite Evacuation."

Recovery

22. Consult with the Emergency Operations Director concerning implementing EPIP-31, "Recovery."

Event Termination or Reduction

23. Contact PVNGS Compliance at ext. [REDACTED] or beeper [REDACTED] or [REDACTED] to provide written summary within 8 hours to offsite authorities. Provide documentation as requested.

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STSC COMMUNICATOR RESPONSE

POSITION FILLED BY:

Nuclear Operator from affected unit

RESPONSIBILITY:

Initiate the notification process as directed by the onshift Emergency Coordinator. Ensure operability of communications equipment. Maintain communications logbook.

IMMEDIATE ACTIONS

STSC Activation

1. Report to the STSC upon notification.

Notification of ALERT, SITE AREA EMERGENCY, GENERAL EMERGENCY

2. Complete the Initial Emergency Message Form as directed by the Onshift Emergency Coordinator or Shift Supervisor.
3. Initiate notification process per Appendix F as directed by the Emergency Coordinator (or Shift Supervisor in his absence).
4. Inform the Emergency Coordinator when initial notifications are complete.
5. Contact the Security Director and inform him to call in additional personnel if so directed by the Emergency Coordinator.
6. Prepare the Follow-up Emergency Message Form as directed by the Emergency Coordinator.
- * 7. Provide follow-up information when requested by the State/County agencies.

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Notification of ALERT, SITE AREA EMERGENCY, GENERAL EMERGENCY

- * 8. Maintain records of communications received or transmitted offsite.

Offsite Assistance

9. Contact required offsite assistance (EPIP-33, "Offsite Assistance", Appendix A) via telephone if directed by the Emergency Coordinator.
10. Record name and time on "Telephone Communication Log Sheet," (EPIP-33, Appendix B).
11. Transfer call to Emergency Coordinator for clarification, if necessary.
12. Inform the Emergency Coordinator of contact/lack of contact, scope of offsite assistance and estimated time of arrival.

ACTIVATION OF ONSITE EMERGENCY ORGANIZATION

13. Transfer continuous communications link with the NRC to the NRC Liaison - Operations in the TSC.
14. Review status of notifications and transfer responsibility for notifying State/County agencies and NRC to Government Liaison Engineer in the EOF.
15. Notify the Emergency Coordinator when responsibilities have been transferred to the Government Liaison Engineer.

*Continuing Activity.

CONTROLLED DOCUMENT
 EMERGENCY PLAN IMPLEMENTING PROCEDURE TRANSMITTAL
 CONTROLLED DOCUMENT LIST I

EPIP NO. Index dated 4/7/86 EPIP-05, pcn 01 R-9, EPIP DATE 4/7/86
06, pcn 01 R-9, EPIP-15, pcn 01, R-3.

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FOR NRC

EDW FL QUINN/4057 W/NRC LETTER ON R/A
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~~Document Cont. Desk 8-9A~~

Document Cont. Desk 8-9B

Gail M. Temple 8-5

Falk Kantor 8-6

PROCEDURE GROUP

Dennis Yows 5-36A thru 5-36I
 Emergency Kits coordinate w/ G. Simiele

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PVNGS #8-9A

EMERGENCY PLAN IMPLEMENTING
PROCEDURES INDEX
C4-07-86

PROCEDURE NUMBER	PROCEDURE TITLE	PROCEDURE REVISION	PROCEDURE EFFECTIVE DATE	CHANGE NOTICE NUMBER	CHANGE NOTICE DATE	NUCLEAR SAFETY REVIEW REQUIRED	PERIODIC REVIEW DATE	
EPIP-01	NOT COVERED BY ANPP PROCEDURE NUMBER 7N4C9.02.00		850118					Z
EPIP-02	EMERGENCY CLASSIFICATION	04	850827	C1-03		Y	860827	Z
EPIP-03	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	10	860115	C1		Y	870115	Z
EPIP-04	ALERT IMPLEMENTING ACTIONS	09	860115	C1		Y	870115	Z
EPIP-05	SITE AREA EMERGENCY IMPLEMENTING ACTIONS	09	860115	C1		Y	870115	Z
EPIP-06	GENERAL EMERGENCY IMPLEMENTING ACTIONS	09	860115	C1		Y	870115	Z
EPIP-11	TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	05	860115	C1		Y	870115	Z
EPIP-12	OPERATIONS SUPPORT CENTER ACTIVATION	05	860115	C1		Y	870115	Z
EPIP-13	EMERGENCY OPERATIONS FACILITY ACTIVATION	05	860115			Y	870115	Z
EPIP-14A	RELEASE RATE DETERMINATION	04	850410	C1,02, 04		Y	860410	Z
EPIP-14B	INITIAL DOSE ASSESSMENT	03	850409			Y	860409	Z
EPIP-14C	CONTINUING DOSE ASSESSMENT	01	850409			Y	860409	Z
EPIP-15	PROTECTIVE ACTION GUIDELINES	03	850627	C1,02		Y	860627	Z

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EPIP-16	INPLANT SURVEYS AND SAMPLING	03	850510			Y	86C510	Z
EPIP-17	ONSITE/OFFSITE SURVEYS AND SAMPLING	02	840801			Y	86C801	Z
EPIP-18	EMERGENCY EXPOSURE GUIDELINES	03	850510			Y	86C510	Z
EPIP-19	ONSITE EVACUATION	04	860115	C1		Y	87C115	Z
EPIP-20	PERSONNEL ASSEMBLY AND ACCOUNTABILITY	04	860115	C1		Y	87C115	Z
EPIP-21	SEARCH AND RESCUE	04	860115			Y	87C115	Z
EPIP-22	PERSONNEL INJURY	04	860221			Y	87C221	Z
EPIP-23	FIRE FIGHTING	03	850517			Y	86C517	Z
EPIP-24	SECURITY	03	850912	C1		Y	86C912	Z
EPIP-25	REENTRY FOR EMERGENCY OPERATIONS	04	860115			Y	87C115	Z
EPIP-26	POTASSIUM IODINE (KI) ADMINISTRATION	03	850617			Y	86C617	Z
EPIP-27	POST ACCIDENT SAMPLING AND ANALYSIS	04	850810			Y	86C810	Z
EPIP-28	PERSONNEL MONITORING AND DECONTAMINATION	02	840716			Y	86C716	Z

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EPIP-29	AREA/EQUIPMENT MONITORING AND DECONTAMINATION	02	840716			Y	86C716 Z
EPIP-30	RADIOLOGICAL EMERGENCY RESPONSE VEHICLE OPERATIONS	00	840716			Y	86C716 Z
EPIP-31	RECOVERY	04	860115			Y	87C115 Z
EPIP-33	OFFSITE ASSISTANCE	03	850912	01		Y	86C912 Z
EPIP-35	NOW COVERED BY ANPP PROCEDURE NUMBER 7N4C9.03.00 AND 7N4C9.07.00		850325				Z
EPIP-36	SUPERSEDED BY ANPP PROCEDURE NUMBER 8N718.04.00 ("EMERGENCY PLAN TRAINING")		850724				Z
EPIP-37A	NOW COVERED BY ANPP PROCEDURE NUMBER 7N4C9.02.00		850322				Z
EPIP-37B	NOW COVERED BY ANPP PROCEDURE NUMBER 7N4C9.05.00		850322				Z
EPIP-38	EMERGENCY EQUIPMENT AND SUPPLIES INVENTORY	07	850930	01		Y	86C930 Z
EPIP-56	ULTIMATE HEAT SINK EMERGENCY WATER SUPPLY	02	851105			Y	851105 Z
EPIP-57	CORPORATE EMERGENCY RESPONSE	01	850912			Y	86C912 Z

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PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

PVNGS

8-9A

PAGE 1 of

INTENT CHANGE: NO
YES

- 1. PROCEDURE TITLE Protective Action Guidelines
- 2. PROCEDURE NUMBER EPID-15 REV. 3 PCN 2
- 2a. Manager concurrence N/A DATE
to exceed 5 PCNs
- 3. REASON FOR PCN: To update Protective Action Recommendations to reflect the
guidance found in IIN 83-28.

4. EXPIRATION: permanent

5. AFFECTED STEPS:

Appendix A
Section 3C, ~~Step 2.7~~ Step 2.7

CHANGE REQUIRED:

Delete pages 10, 11a, 12 and 13
Insert pages 10a and 11b
Delete page 5; Insert 5a

6. PREPARED BY:

Harold A. Stovall 3/3/86
SIGNATURE DATE

ENTERED IN PROCEDURE BY:

SIGNATURE

7. TEMPORARY APPROVAL:

N/A
SIGNATURE DATE

SS/Assist. SS

8. DEPT. MANAGER:

Frankie L. Smith 3/3/86
SIGNATURE DATE

9. PRB/PRG/TRRG:

[Signature] 3/26/86
SIGNATURE

10. APPROVED BY:

[Signature]
DEPARTMENT MANAGER'S SIGNATURE

3/28/86

11. DATE EFFECTIVE:

04-01-86

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PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

PAGE 1 of 1

INTENT CHANGE: NO
YES

1. PROCEDURE TITLE Protective Action Guidelines
2. PROCEDURE NUMBER EPIP-15 REV. 3 PCN 1
- 2a. Manager concurrence N/A to exceed 5 PCNs DATE _____
3. REASON FOR PCN: To update Protective Action Recommendations to reflect current regulatory guidelines.
4. EXPIRATION: Next Revision
5. AFFECTED STEPS: Appendix A, pg 2.
CHANGE REQUIRED: Delete page 11; Insert 11a
6. PREPARED BY: Herald A. Amuele 12/23/85
SIGNATURE DATE
ENTERED IN PROCEDURE BY: _____
SIGNATURE DATE
7. TEMPORARY APPROVAL: N/A
SIGNATURE DATE
8. DEPT. MANAGER: Dennis G. Gwiz 12/24/85
SIGNATURE DATE
SS/Assist. SS _____ DATE _____
9. PRB/PRG/TRRG: [Signature] 1/9/86
SIGNATURE DATE
10. APPROVED BY: [Signature]
DEPARTMENT MANAGER'S SIGNATURE
11. DATE EFFECTIVE: 01-15-86

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DDC
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DEPT. HEAD

Dennis D. [Signature]

DATE

6/17/85

PRB/PRG/TRRG REVIEW

[Signature]

DATE

6/24/85

APPROVED BY

[Signature]

DATE

6/23/85

EFFECTIVE DATE

06.21.85

DN-1669A/0196A

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
3	<u>06.21.87</u>	<u>4, 5, 6, 7, 10, 11, 12, 13</u>	<u>Corrected references;</u> <u>revised procedure to match</u> <u>writers guide; corrected</u> <u>referrals to personnel</u> <u>responsibilities; CORRECTED</u> <u>PAG's in App. A.</u>

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1.0 OBJECTIVE

- 1.1 To provide a basis for relating actual or projected plume exposure doses to the Environmental Protection Agency (EPA) Protective Action Guides (PAGs).

2.0 REFERENCES

2.1 Implementing References

- 2.1.1 EPIP-14B, "Initial Dose Assessment"
- 2.1.2 EPIP-17, "Onsite/Offsite Surveys and Sampling"
- 2.1.3 EPIP-03, "NOTIFICATION OF UNUSUAL EVENT Implementing Actions"
- 2.1.4 EPIP-04, "ALERT Implementing Actions"
- 2.1.5 EPIP-05, "SITE AREA EMERGENCY Implementing Actions"
- 2.1.6 EPIP-06, "GENERAL EMERGENCY Implementing Actions"

2.2 Developmental References

- 2.2.1 NUREG 0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants".
- 2.2.2 Manual of Protective Action Guides and Protective Actions for Nuclear Incidents; as revised June, 1980; EPA-520/1-75-001.
- 2.2.3 PVNGS Emergency Plan, Rev. 5.

3.0 LIMITATIONS AND PRECAUTIONS

- 3.1 The protective actions determined by this procedure are to be presented to appropriate state/county agencies as RECOMMENDATIONS. Only these agencies are authorized to implement the protective actions.

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- 3.2 Protective action recommendations are based on plant and containment conditions and these recommendations are made even when no release is in progress. These recommendations are transmitted to government officials using EPIP-03, "NOTIFICATION OF UNUSUAL EVENT Implementing Actions," EPIP-04, "ALERT Implementing Actions," or EPIP-05, "SITE AREA EMERGENCY Implementing Actions," or EPIP-06, "GENERAL EMERGENCY Implementing Actions," depending on level of emergency.
- 3.3 Protective action guides represent trigger levels and are not intended to represent acceptable dose levels.
- 3.4 PAGs for the general public are given in ranges. The lowest dose values should be used if there are no major local constraints in providing protection at this level. Local constraints may, however, make the lower values impractical to use, but in no case should the higher value be exceeded in determining a need for protective action.
- 3.5 The projected dose and affected offsite areas depend upon the curies released, release rate, duration of the release, isotopic mixture of the release (varies with effective age) and meteorological conditions.
- 3.6 At times, selection of protective actions should be considered subjectively as conditions beyond the scope of this procedure exist.
- 3.7 The protective action recommendation for potential and/or actual loss of physical control of the facility is a 360°, 2 mile evacuation.
- 3.8 When the wind is blowing into the Palo Verde Hills (sectors N, P or Q) and protective actions are being considered, the two sectors on either side of the affected sector shall be included in the recommendation (e.g., a plume in sector P shall require consideration of sectors M, N, Q and R in the recommendation.)
- 3.9 Protective actions recommended to state authorities by ANPP SHALL NOT be transmitted to the JENC.
- 3.10 Government officials should inform EC/EOD prior to implementing protective actions.
- 3.11 If actual airborne radioactivity, noble gas or iodine sample results are available (either from RMS filter analysis or field measurements) this information may be used instead of dose projections for making protective action recommendations.

PCA
P02

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- 3.2 Protective action recommendations are based on plant and containment conditions and those recommendations are made even when no release is in progress. These recommendations are transmitted to government officials using EPIP-03, "NOTIFICATION OF UNUSUAL EVENT Implementing Actions," EPIP-04, "ALERT Implementing Actions," or EPIP-05, "SITE AREA EMERGENCY Implementing Actions," or EPIP-06, "GENERAL EMERGENCY Implementing Actions," depending on level of emergency.
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- 3.8 When the wind is blowing into the Palo Verde Hills (sectors N, P or Q) and protective actions are being considered, the two sectors on either side of the affected sector shall be included in the recommendation (e.g., a plume in sector P shall require consideration of sectors M, N, Q and R in the recommendation.)
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- 3.11 If actual airborne radioactivity, noble gas or iodine sample results are available (either from RMS filter analysis or field measurements) this information may be used instead of dose projections for making protective action recommendations.

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4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

- 4.1.1 Dose estimates which population groups may potentially receive, are calculated in accordance with EPIP-14B, "Initial Dose Assessment". This dose estimate is referred to as the projected dose. A protective action is an action taken to avoid or reduce this projected dose when the benefits derived from such action are sufficient to offset any undesirable features of the protective action. |³
- 4.1.2 The Protective Action Guide (PAG) is based on the projected dose to individuals in the population which warrant taking protective actions. It is used in an effort to minimize the risk from an event which is occurring or has already occurred.
- 4.1.3 The responsibility for the decision to notify and recommend protective actions to the appropriate authorities belongs to the Emergency Coordinator until he is relieved of this responsibility by the Emergency Operations Director.
- 4.1.4 The Radiation Protection Technician of the affected unit shall be responsible for initial offsite dose calculations and/or projections. |³
- 4.1.5 The Radiation Assessment Coordinator (Radiation Protection Monitor, on shift) shall be responsible for updating and refining dose assessments for critical receptor site locations and evaluating appropriate protective actions. |³
- 4.1.6 The Radiological Protection Coordinator (Radiological Assessment Coordinator) shall be responsible for relaying dose assessment and protective action evaluations to the Emergency Coordinator (Emergency Operations Director).

4.2 Prerequisites

- 4.2.1 Projected whole body and thyroid dose rates and integrated dose for critical receptor site locations have been calculated in accordance with EPIP-14B, and such doses warrant evaluating, and if necessary, recommending protective actions.

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4.3 Instructions

4.3.1 Radiological Assessment Coordinator (Radiation Protection Monitor, onshift) shall:

- 4.3.1.1 Evaluate current plant status with respect to potential for releases or increased releases.
- 4.3.1.2 Update and refine dose estimates for critical receptor site locations upon significant changes in one or more of the following parameters:
 - (1) Release rates.
 - (2) Duration of the releases.
 - (3) Isotopic mixture of the release (varies as a function of effective age).
 - (4) Meteorological conditions.

4.3.2 Should the plant status or projected doses indicate that sheltering or evacuation be considered per Appendix A, determine the effectiveness of these protective actions as described below. Time estimates should be obtained from the State Emergency Operations Center.

4.3.3 Evacuation Effectiveness - The effectiveness of evacuation in limiting radiation dose is a function of the time of exposure if a plume is present. This is dependent upon the time required to evacuate. The evacuation time T(EV) is expressed as:

$$T(EV) = T_D + T_N + T_M + T_T$$

Where:

- T_D = Time delay measured from the point of the protective action recommendation from the facility to government to evacuate to the actual decision by the competent authority to order the evacuation.
- T_N = Time required by officials to notify people to evacuate.
- T_M = Time required for people to mobilize and get under way.
- T_T = Travel time required to leave the affected areas.

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- 4.3.3.1 If evacuation is completed before the plume arrives, then evacuation is 100 percent effective. To determine the time of exposure to the plume, it is necessary to calculate the plume arrival time T(PA). The plume arrival time, T(PA) is expressed as:

$$T(\text{PA}) = T_B + T_{\text{TR}}$$

Where:

T_B = Time projected before release begins.

T_{TR} = Time projected for plume travel for given windspeed and downwind distances from the start of release. To calculate T_{TR} refer to procedure EPIP-14B.

- 4.3.3.2 Evaluate constraints against evacuation. Compare the estimated evacuation time T(EV) with the estimated plume arrival time, T(PA).

- 4.3.3.3 Under the following conditions evaluate the benefits of sheltering vs. the benefits of evacuation.

(1) In cases where there is no time to evacuate prior to the arrival of the plume.

(2) The projected evacuation time and time before plume arrival are nearly equal.

- 4.3.3.4 If evacuation appears to offer a significant reduction in dose (greater than sheltering) recommend evacuation to the appropriate county and/or state officials.

4.3.4 Sheltering Effectiveness

- 4.3.4.1 If evacuation does not offer significant dose avoidance or if local constraints prevent evacuation recommend that officials warn the affected population to:

(1) Seek shelter.

(2) Close windows.

(3) Turn off ventilation systems.

(4) Seal cracks in doors with wet rags.

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- 4.3.4.2 Control access to the affected area.
- 4.3.5 Evaluate the possibility of evacuation after the plume has passed.
 - 4.3.5.1 After the plume has passed, evaluate the significance of ground deposition in accordance with EPIP-17, "Onsite/Offsite Surveys and Sampling".
 - 4.3.5.2 Determine if dose rates are sufficient to warrant subsequent evacuation.
 - 4.3.5.3 Multiply the projected dose by the external shielding factor (Appendix B).
 - 4.3.5.4 Compare the projected dose to the PAG for whole body gamma dose (Appendix A).
- 4.3.6 Evaluate the significance of inhalation dose. (Shielding factors for inhalation doses are presented in Appendix C). Shielding factors are for a sealed, wood-frame house.
 - 4.3.6.1 Multiply the projected dose by the inhalation shielding factor to determine the reduction in inhalation dose from the plume. Compare the projected dose to the PAG for thyroid dose in Appendix A.
- 4.3.7 Determine the critical organ of concern, the whole body or the thyroid. Compare the projected dose for the critical organ to the PAG for that organ in Appendix A.

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GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR GASEOUS PLUME EXPOSURE*

CONDITION

RECOMMENDED ACTION

NON-ESSENTIAL GENERATING COMPLEX PERSONNEL AND GENERAL POPULATION

1. Notification of Unusual Event declared indicating that events are in progress which indicate potential degradation of the level of safety of the plant; however no release of radioactive material requiring offsite response/monitoring is expected unless further degradation of safety systems occurs.

Inform State & County authorities of status/cause and based on situation recommend that no protective action is necessary or standby for update if situation worsens.

2. An alert has been declared; any releases are expected to be limited to small fractions of the EPA/PAG exposure levels at the site boundary unless further degradation of safety systems occur.

Inform State & County Authorities of Alert status/cause and recommend that the public be apprised of the situation and stay tuned to EAS/KIAR radio station.

3. A Site Area Emergency has been declared; any releases are not expected to exceed EPA/PAG exposure levels beyond the site boundary unless further degradation of safety systems occur.

Inform State & County authorities of Site Area Emergency Status/cause and recommend seeking shelter within a 2 mile radius of the plant and within 10 miles in affected sectors as warranted based on plant/containment conditions.

*NOTE: References for this table are a combination of Table 5.1, page 5.31, Rev. 6/80 - Manual of Protective Action Guides and Protective Actions for Nuclear Incidents and NUREG-0654, published 11/80.

** Affected sectors include, as a minimum, the downwind sector(s) and adjacent sectors. For plumes in sectors P, Q, or N, two sectors on either side of the affected sector shall be included in the recommendation (e.g., a plume in sector P shall require consideration of sectors M, N, Q and R.

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**GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR GASEOUS PLUME EXPOSURE
TO NON-ESSENTIAL GENERATING COMPLEX PERSONNEL AND GENERAL POPULATION***

CONDITION	RECOMMENDED ACTION
1. Notification of Unusual Event declared; events are in progress which indicate potential degradation of the level of safety of the plant; however no release of radioactive material requiring off-site response/monitoring is expected unless further degradation of safety systems occurs.	Inform state and county authorities of status/cause and, based on situation, recommend that no protective action is necessary or standby for update if situation worsens.
2. An alert has been declared; any release are expected to be limited to small fractions of the EPA/PAG exposure levels at the site boundary unless further degradation of safety systems occur.	Inform state and county authorities of Alert status/cause and recommend that the public be apprised of the situation and stay tuned to EBS/KTAR radio station.
3. A Site Area Emergency has been declared any releases are not expected to exceed EPA/PAG exposure levels beyond the site boundary unless further degradation of safety systems occur.	Inform state and county authorities of Site Area Emergency status/cause and consider recommending seeking shelter within a 2-mile radius of the plant as warranted based on plant/containment conditions.
4. A General Emergency has been declared as per EPIP-02, "Emergency Classification."	Shelter within 2-mile radius and 5 miles in potentially affected sectors.**

*NOTE: References for this table are a combination of Table 5.1, page 5.31, Rev. 6/80 - Manual of Protective Action Guides and Protective Actions for Nuclear Incidents and NUREG-0654, published 11/80.

**NOTE: Affected sectors include, as a minimum, the downwind sector(s) and adjacent sectors. For plumes in sectors P, Q, or N, two sectors on either side of the affected sector shall be included in the recommendation (e.g., a plume in sector P shall require consideration of sectors M, N, Q and R).

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GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR GASEOUS PLUME EXPOSURE*

CONDITION	RECOMMENDED ACTION
NON-ESSENTIAL GENERATING COMPLEX PERSONNEL AND GENERAL POPULATION	
4. A General Emergency has been declared, (e.g.: Actual/imminent loss of Physical facility Control)	Consider a two (2) mile precautionary evacuation.
5. A General Emergency has been declared and large amounts of fission products are in the containment atmosphere. The projected dose using containment area monitor results is calculated to be: a) whole body > 5 rem b) thyroid > 25 rem	In addition to considering a two (2) mile 360° precautionary evacuation, consider a 5 mile downwind evacuation of potentially affected sectors.**
6. A General Emergency has been declared and containment failure leading to a direct atmospheric release is likely in the sequence but not imminent and large amounts of fission products in addition to noble gases are in the containment atmosphere. The projected dose using containment area monitor results is calculated to be: a) whole body > 5 rem b) thyroid > 25 rem	In addition to considering a two (2) mile 360° precautionary evacuation, consider a precautionary 360° evacuation to 5 miles and a downwind evacuation to 10 miles of potentially affected sectors.**

*NOTE: References for this table are a combination of Table 5.1, page 5.31, Rev. 6/80 - Manual of Protective Action Guides and Protective Actions for Nuclear Incidents and NUREG-0654, published 11/80.

** Affected sectors include, as a minimum, the downwind sector(s) and adjacent sectors. For plumes in sectors P, Q, or N, two sectors on either side of the affected sector shall be included in the recommendation (e.g., a plume in sector P shall require consideration of sectors M, N, Q and R).

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GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR GASEOUS PLUME EXPOSURE*

CONDITION	RECOMMENDED ACTION
NON-ESSENTIAL GENERATING COMPLEX PERSONNEL AND GENERAL POPULATION	
4. A General Emergency has been declared, (e.g.: Actual/Imminent loss of Physical Facility Control)	Recommend shelter within a 2 mile radius and out to 5 miles within potentially affected sectors. Consider a 2 mile precautionary evacuation.
5. A General Emergency has been declared and large amounts of fission products are in the containment atmosphere. The projected dose using containment area monitor results is calculated to be: a) whole body > 5 rem b) thyroid > 25 rem	In addition to considering a two (2) mile 360° precautionary evacuation, consider a 5 mile downwind evacuation of potentially affected sectors.**
6. A General Emergency has been declared and containment failure leading to a direct atmospheric release is likely in the sequence but not imminent and large amounts of fission products in addition to noble gases are in the containment atmosphere. The projected dose using containment area monitor results is calculated to be: a) whole body > 5 rem b) thyroid > 25 rem	In addition to considering a two (2) mile 360° precautionary evacuation, consider a precautionary 360° evacuation to 5 miles and a downwind evacuation to 10 miles of potentially affected sectors.**

*NOTE: References for this table are a combination of Table 5.1, page 5.31, Rev. 6/80 - Manual of Protective Action Guides and Protective Actions for Nuclear Incidents and NUREG-0654, published 11/80.

** Affected sectors include, as a minimum, the downwind sector(s) and adjacent sectors. For plumes in sectors P, Q, or N, two sectors on either side of the affected sector shall be included in the recommendation (e.g., a plume in sector P shall require consideration of sectors M, N, Q and R).

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GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR GASEOUS PLUME EXPOSURE
 TO NON-ESSENTIAL GENERATING COMPLEX PERSONNEL AND GENERAL POPULATION*

CONDITION	RECOMMENDED ACTION
5. EPA Protective Action Guidelines are projected to be exceeded. <ul style="list-style-type: none"> a) whole body > 1 rem to \leq 5 rems thyroid > 5 rems to \leq 25 rems b) whole body > 5 rems thyroid > 25 rems 	In accordance with EPA Protective Action Guidelines: <ul style="list-style-type: none"> Recommend shelter, as a minimum, for affected sectors⁵³ and consider evacuation unless time constraints make it impractical. Recommend evacuation for affected sectors⁵⁴ or shelter for those areas that cannot be evacuated before plume arrival.
6. Substantial core damage has occurred or is projected to the extent that 20% of fuel clad gap activity is released from fuel.	Evacuation for 2-mile radius and 5 miles in potentially affected sectors. ⁵⁵
7. Large fission product inventory (greater than fuel clad gap activity) has been released to containment.	Evacuation for 5-mile radius and 10 miles in potentially affected sectors. ⁵⁶
8. Imminent containment failure is projected such that a "puff" release greater than design leak rate will occur, in conjunction with 6 or 7 ^{6, 7} above.	Shelter for areas that cannot be evacuated before plume arrival; evacuation of remainder of 5-mile radius and 10-mile in potentially affected sectors. ⁵⁷

*NOTE: References for this table are a combination of Table 5.1, page 5.31, Rev. 6/80 - Manual of Protective Action Guides and Protective Actions for Nuclear Incidents and NUREG-0654, published 11/80.

**NOTE: Affected sectors include, as a minimum, the downwind sector(s) and adjacent sectors. For plumes in sectors P, Q, or N, two sectors on either side of the affected sector shall be included in the recommendation (e.g., a plume in sector P shall require consideration of sectors N, N, Q and R).

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GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR GASEOUS PLUME EXPOSURE* (CONT'D)

CONDITION	RECOMMENDED ACTION
NON-ESSENTIAL GENERATING COMPLEX PERSONNEL AND GENERAL POPULATION	
<p>7. A General Emergency has been declared and large amounts of fission products other than noble gases in the containment atmosphere and containment failure is judged imminent. The projected dose using containment area monitor results is calculated to be:</p> <p style="margin-left: 20px;">a) whole body > 5 rems b) thyroid > 25 rems</p>	<p>In addition to considering a two (2) mile 360° precautionary evacuation, consider a precautionary 360° evacuation to 5 miles and a downwind evacuation to 10 miles of potentially affected sectors,** and consider shelter for areas where evacuation cannot be completed before the transport of activity to those areas.</p>
<p>8. An actual release has occurred and the projected dose to individuals in the population is calculated to be:</p> <p style="margin-left: 20px;">a) 0.5 ≤ whole body < 1 rem b) 1.0 ≤ thyroid < 5 rems</p>	<p>Recommend seeking shelter 360° for two (2) miles and in affected sectors out to 10 miles.</p>
<p>9. An actual release has occurred and the projected dose to individuals in the population is calculated to be:</p> <p style="margin-left: 20px;">a) whole body > 1 rem to 5 rems b) thyroid > 5 rems to 25 rems</p>	<p>Recommend a 360° evacuation for two (2) miles and in affected sectors** out to 10 miles. Recommend seeking shelter 360° out to 10 miles.</p>

*NOTE: References for this table are a combination of Table 5.1, page 5.31, Rev. 6/80 - Manual of Protective Action Guides and Protective Actions for Nuclear Incidents and NUREG-0654, published 11/80.

** Affected sectors include, as a minimum, the downwind sector(s) and adjacent sectors. For plumes in sectors P, Q, or N, two sectors on either side of the affected sector shall be included in the recommendation (e.g., a plume in sector P shall require consideration of sectors M, N, Q and R).

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GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR GASEOUS PLUME EXPOSURE* (CONT'D)

CONDITION	RECOMMENDED ACTION
EMERGENCY AND EMERGENCY TEAM PERSONNEL	
10. An actual release has occurred and the projected dose to individuals in the population is calculated to be: a) whole body > 5 rems b) thyroid > 25 rems	Recommend a 360° evacuation for five (5) miles and in affected sectors** out to 10 miles. Recommend seeking shelter 360° out to 10 miles.
11. An actual release has occurred and the projected dose to Emergency Team workers is calculated to be: a) whole body > 25 rems b) thyroid > 125 rems	Control exposure of Emergency Team members to these levels except for lifesaving missions (appropriate controls for Emergency Team workers include time limitations and respirators).
12. An actual release has occurred and the projected dose to Emergency Team workers performing lifesaving missions is calculated to be: a) whole body > 75 rems	Control exposure of Emergency Team members performing lifesaving missions to this level (control of time of exposure should be most effective). NOTE: Although respirators should be used where effective to control dose to Emergency Team workers, thyroid dose may not be a limiting factor for lifesaving missions.

*NOTE: References for this table are a combination of Table 5.1, page 5.31, Rev. 6/80 - Manual of Protective Action Guides and Protective Actions for Nuclear Incidents and NUREG-0654, published 11/80.

** Affected sectors include, as a minimum, the downwind sector(s) and adjacent sectors. For plumes in sectors P, Q, or N, two sectors on either side of the affected sector shall be included in the recommendation (e.g., a plume in sector P shall require consideration of sectors M, N, Q and R).

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REDUCTION IN EXTERNAL GAMMA DOSE FROM PASSING CLOUD

<u>STRUCTURE OR LOCATION</u>	SHIELDING FACTOR ^(a)	
	AVERAGE	RANGE
(1) Outside	1.0	--
(2) Vehicles	1.0	--
(3) Wood frame house (no basement) ^(b)	0.9	--
(4) Basement of wood house	0.6	0.1 to 0.7 ^(c)
(5) Masonry house (no basement)	0.6	0.4 to 0.7 ^(c)
(6) Basement of masonry house	0.4	0.1 to 0.5 ^(c)
(7) Large office or industrial building	0.2	0.1 to 0.3 ^(c,d)

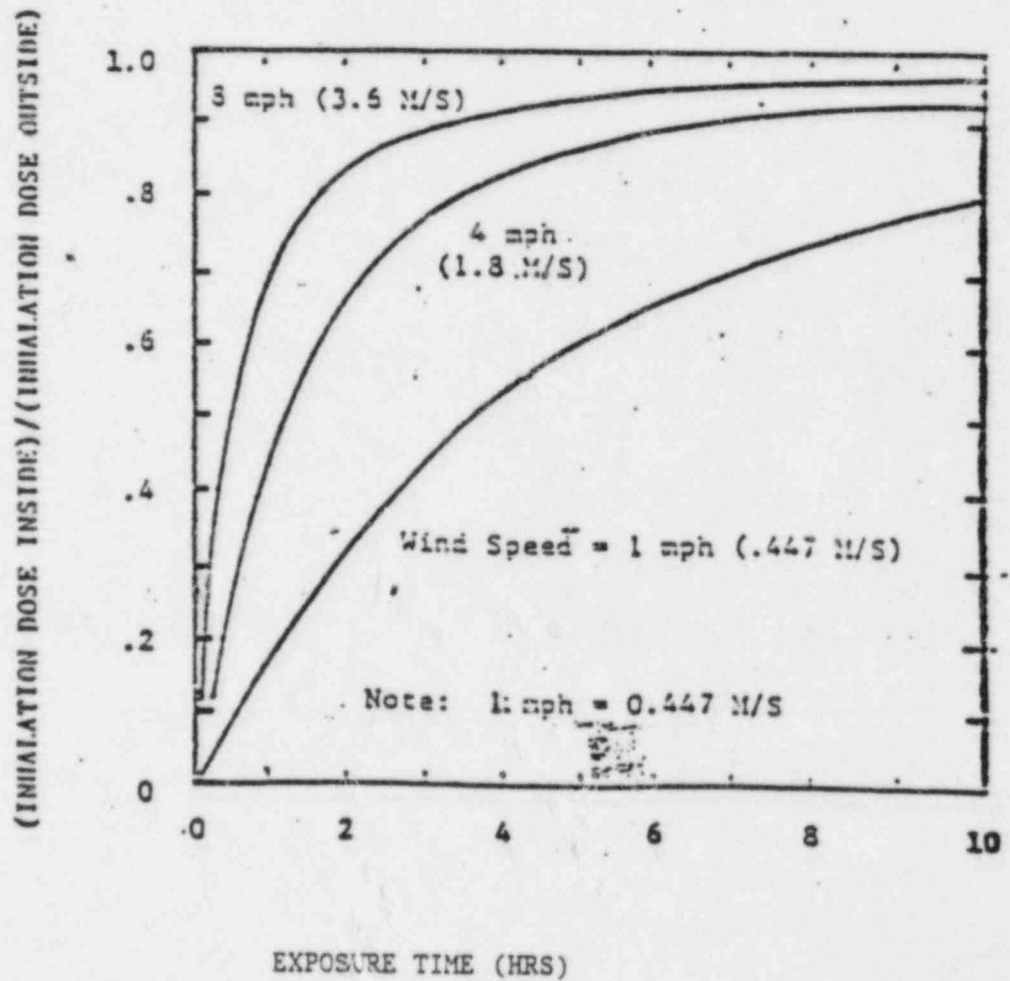
NOTES:

- (a) The ratio of the interior dose to the exterior dose
- (b) A wood frame house with brick or stone veneer is approximately equivalent to a masonry house for shielding purposes.
- (c) This range is mainly due to different wall materials and different geometries.
- (d) The reduction factor depends on where the personnel are located within the building (e.g., the basement or an inside room).

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INHALATION SHIELDING FACTORS FOR A WOOD HOUSE, SNUG DOORS, CLOSED WINDOWS



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PALO VERDE NUCLEAR GENERATING STATION

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INTENT CHANGE: NO
YES

1. PROCEDURE TITLE Site Area Emergency Implementing Actions
2. PROCEDURE NUMBER EPIP-05 REV. 9 PCN 1
- 2a. Manager concurrence N/A DATE _____
to exceed 5 PCNs
3. REASON FOR PCN: To update Protective Actions Recommendations to reflect the guidance found in IGIN 83-28. Added statement concerning the EUS manning during events.
4. EXPIRATION: permanent
5. AFFECTED STEPS:

<u>Appendix H</u>	CHANGE REQUIRED:
<u>Page 6, section 3.0</u>	<u>Delete page 24; Insert 24a</u>
	<u>Delete page 6; Insert 6a</u>
6. PREPARED BY: Heard A. Amico 2/25/86
SIGNATURE DATE
- ENTERED IN PROCEDURE BY: _____
SIGNATURE D
7. TEMPORARY APPROVAL: N/A
SIGNATURE DATE
- SS/Assist. SS _____ D
8. DEPT. MANAGER: [Signature] 2/25/86
SIGNATURE DATE
9. PRB/PRG/TRRG: [Signature] 3/26
SIGNATURE D
10. APPROVED BY: [Signature]
DEPARTMENT MANAGER'S SIGNATURE D
11. DATE EFFECTIVE: 04.07.86

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ASSIGNED COPY

PVNGS

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DEPT. HEAD Harry F. Beckley for Dennis Young DATE 12/4/85
PRB/PRG/TRRG REVIEW D.P. Zulligill DATE 1/2/86
APPROVED BY H. R. Byrum DATE 1/6/86
EFFECTIVE DATE 01-15-86

DN-1600A/0787A

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
<u>5</u>	<u>3/4/85</u>	<u>all</u>	<u>Revised callouts and</u>
			<u>announcements. Added NAN</u>
			<u>Backup instruction Appendix.</u>
			<u>Added emergency coordinator</u>
			<u>checklists.</u>
<u>6</u>	<u>4/9/85</u>	<u>Apr. A & B</u>	<u>Revised to incorporate PCN</u>
			<u>#01 of Rev. 5. PCN</u>
			<u>corrected phone #s in App.</u>
			<u>A & B.</u>
<u>7</u>	<u>01-15-86</u>	<u>3, 7, 8, 9,</u>	<u>Added termination message</u>
		<u>10, 11, 13,</u>	<u>form and instructions. Added</u>
		<u>14, 17, 18,</u>	<u>note to provide guidance</u>
		<u>19, 20, 22,</u>	<u>on notifications. Changed</u>
		<u>24, 25 and 28</u>	<u>sequence of notifications in</u>
			<u>App. A. Updated references</u>
			<u>to all appendices. Capital</u>
			<u>announcements to make easier</u>
			<u>to identify.</u>

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Rev. No.	Date	Revised Pages	Comments
<u>8</u>	<u>09/10/85</u>	<u>4, 6, 9, 10,</u>	<u>Incorporated PCN #1 of</u>
		<u>11, 12, 13,</u>	<u>Rev. 7. Added new phone #'s</u>
		<u>20, 21, 25,</u>	<u>STSC Communicator checklist</u>
		<u>26, 30, 33,</u>	<u>and specific instructions</u>
		<u>34, 37, 38,</u>	<u>for announcements.</u>
		<u>39</u>	
<u>9</u>		<u>4, 8, 9, 10,</u>	<u>Incorporated PCN #1 and 2 of</u>
		<u>11, 12, 13,</u>	<u>Rev. 8. Deleted</u>
		<u>14, 15, 17,</u>	<u>Time/Initials column in</u>
		<u>18, 25, 26,</u>	<u>Appendices I and J.</u>
		<u>27, 28, 29,</u>	
		<u>30, 31, 32,</u>	
		<u>33, 34, 35,</u>	
		<u>36, 37, 38,</u>	
		<u>39</u>	

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1.0 OBJECTIVE

- 1.1 This procedure provides a series of implementing actions to be taken upon declaration of a SITE AREA EMERGENCY.

2.0 REFERENCES

2.1 Implementing References

- 2.1.1 EPIP-02, "Emergency Classification"
- 2.1.2 EPIP-11, "Technical Support Center/Satellite TSC Activation"
- 2.1.3 EPIP-12, "Operations Support Center Activation"
- 2.1.4 EPIP-13, "Emergency Operations Facility Activation"
- 2.1.5 EPIP-14A, "Release Rate Determination"
- 2.1.6 EPIP-14B, "Initial Dose Assessment"
- 2.1.7 EPIP-15, "Protective Action Guidelines"
- 2.1.8 EPIP-16, "Inplant Surveys and Sampling"
- 2.1.9 EPIP-17, "Onsite/Offsite Surveys and Sampling"
- 2.1.10 EPIP-18, "Emergency Exposure Guidelines"
- 2.1.11 EPIP-19, "Onsite Evacuation"
- 2.1.12 EPIP-20, "Personnel Assembly and Accountability"
- 2.1.13 EPIP-21, "Search and Rescue"
- 2.1.14 EPIP-22, "Personnel Injury"
- 2.1.15 EPIP-23, "Fire Fighting"
- 2.1.16 EPIP-24, "Security"
- 2.1.17 EPIP-25, "Reentry for Recovery Operations"
- 2.1.18 EPIP-26, "Potassium Iodide (KI) Administration"
- 2.1.19 EPIP-31, "Recovery"

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2.1.20 EPIP-33, "Offsite Assistance"

2.1.21 71AC-9ZZ01, "Event Related Reporting"

2.1.22 9N219.05.00, "Documentation/Record Turnover Control"

2.2 Developmental References

2.2.1 NUREG-0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"

2.2.2 PVNGS Emergency Plan, Rev. 6

3.0 LIMITATIONS AND PRECAUTIONS

3.1 Continued surveillance and assessment of plant conditions are necessary to ensure that the emergency classification is appropriately revised as conditions change or more definitive information is obtained.

3.2 Notifications to state/county agencies per Appendix A, "Emergency Notification Call List-Emergency Coordinator/STSC Communicator" shall commence within 15 minutes of declaration of an emergency.

4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

4.1.1 In a SITE AREA EMERGENCY, substantial releases of radioactive material may occur. Any releases are not expected to exceed EPA Protective Action Guideline exposure levels beyond the site boundary. Consideration of appropriate protective actions, based on actual or projected data, is warranted. All onsite and offsite emergency centers are activated. Onsite evacuation will be initiated if appropriate. The station shall provide updated radiological/meteorological information to offsite emergency management organizations. The SITE AREA EMERGENCY status shall be maintained until the event is terminated or reclassification takes place.

4.1.2 The Shift Supervisor or Emergency Coordinator shall be responsible for initiating and completing the implementing actions of this procedure.

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- 2.1.20 EPIP-33, "Offsite Assistance"
- 2.1.21 71AC-9ZZ01, "Event Related Reporting"
- 2.1.22 9N219.05.00, "Documentation/Record Turnover Control"

2.2 Developmental References

- 2.2.1 NUREG-0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- 2.2.2 PVNGS Emergency Plan, Rev. 6

3.0 LIMITATIONS AND PRECAUTIONS

- 3.1 Continued surveillance and assessment of plant conditions are necessary to ensure that the emergency classification is appropriately revised as conditions change or more definitive information is obtained.
 - 3.2 Notifications to state/county agencies per Appendix A, "Emergency Notification Call List-Emergency Coordinator/STSC Communicator" shall commence within 15 minutes of declaration of an emergency.
 - 3.3 *All notifications should be completed prior to contacting the URC as the ENS must be manned continuously at the URC's request.*
- ## 4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

- 4.1.1 In a SITE AREA EMERGENCY, substantial releases of radioactive material may occur. Any releases are not expected to exceed EPA Protective Action Guideline exposure levels beyond the site boundary. Consideration of appropriate protective actions, based on actual or projected data, is warranted. All onsite and offsite emergency centers are activated. Onsite evacuation will be initiated if appropriate. The station shall provide updated radiological/meteorological information to offsite emergency management organizations. The SITE AREA EMERGENCY status shall be maintained until the event is terminated or reclassification takes place.
- 4.1.2 The Shift Supervisor or Emergency Coordinator shall be responsible for initiating and completing the implementing actions of this procedure.

CONTROLLED DOCUMENT

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4.2 Prerequisites

- 4.2.1 The emergency has been classified per EPIP-02, "Emergency Classification."

4.3 Instructions

- 4.3.1 The affected unit Shift Supervisor shall perform the following:

NOTE

Designated Unaffected Unit Shift Supervisor to assume the role of the Emergency Coordinator in the Onshift Emergency Organization are:

Affected Unit	Unaffected Unit Shift Supervisor
Unit 1	Unit 2
Unit 2	Unit 1
Unit 3	Unit 2
Entire Site	Unit 1

- 4.3.1.1 Notify the Shift Supervisor of the designated unaffected unit (or Shift Supervisor of an unaffected unit) to report to the Control Room of the affected unit and assume the duties of the Emergency Coordinator.

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NOTE

Initial notifications shall be made from the satellite TSC by the Satellite TSC Communicator until activation of the EOF. At that time all subsequent initial and follow up notifications shall be made by the Government Liaison Engineer in the EOF.

NOTE

If the emergency situation is terminated before initial notifications are finished, complete the notifications per Appendix A. Then repeat Appendix A with the notification of termination. If the emergency is terminated before initial notifications can be started, provide both initiating and terminating messages in the same call.

NOTE

Protective Action recommendations (Appendix H) are based on plant and containment conditions and these recommendations are made to offsite officials even when no release is in progress.

- 4.3.1.2 Notify the Control Rooms of the unaffected units.
- 4.3.1.3 Direct the Satellite TSC Communicator (or Government Liaison Engineer) to fill out Appendix C, "Initial Emergency Message Form," in accordance with instructions provided in Appendix F.
- 4.3.1.4 Ensure the accountability signal is sounded for approximately one minute.

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- 4.3.1.5 Silence the signal and ensure the following announcement is made over the plant wide telephone page (phone no.

"ATTENTION ALL PLANT PERSONNEL, AN EMERGENCY SITUATION CLASSIFIED AS A SITE AREA EMERGENCY EXISTS IN UNIT _____. ASSEMBLY AND ACCOUNTABILITY ARE NOW IN PROGRESS. ALL AFFECTED UNIT EMERGENCY RESPONSE PERSONNEL AND ALTERNATES REPORT TO YOUR EMERGENCY LOCATION. ALL OTHER PERSONNEL REPORT TO YOUR ASSIGNED ASSEMBLY AREA." (Provide instructions on routes or areas to avoid as appropriate)

- 4.3.1.6 Ensure the announcement in step 4.3.1.5 is repeated over the Site Warning Siren/Public Address System.
- 4.3.1.7 Ensure the accountability signal is resounded and the announcement in steps 4.3.1.5 and 4.3.1.6 is repeated.
- 4.3.1.8 Ensure that actions of the appropriate recovery procedures have been implemented.
- 4.3.2 The Emergency Coordinator shall perform the following:
- 4.3.2.1 Ensure activation of the satellite TSC in accordance with EPIP-11, "Technical Support Center/Satellite TSC Activation."
- 4.3.2.2 Following accountability, and if conditions warrant, initiate EPIP-19, "Onsite Evacuation."
- 4.3.2.3 Implement additional Emergency Plan Implementing Procedures according to the situation that resulted in the emergency being classified as a SITE AREA EMERGENCY.
- 4.3.2.4 Direct the Security Director to call in Onsite and Offsite Emergency Organization personnel by utilizing the appropriate computer call-out listing.
- 4.3.2.5 Direct the STSC Communicator (or Government Liaison Engineer) to prepare Appendix D, "Follow-up Emergency Message Form" in accordance with instructions provided in Appendix F.

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- 4.3.2.6 Determine the need for offsite assistance. If assistance is necessary, direct the STSC Communicator (onshift) or the Administrative and Logistics Coordinator to contact the required agency per EPIP-33, "Offsite Assistance."
- 4.3.2.7 Reevaluate the emergency classification and perform licensee actions as conditions change by implementing procedure EPIP-02.
- 4.3.2.8 When the situation warrants downgrading/upgrading the SITE AREA EMERGENCY, proceed to appropriate implementing and notification procedures and direct the Shift Supervisor to announce the reclassification over the public address system and inform the other Control Rooms.
- 4.3.2.9 Provide overall direction and control of the ONSHIFT emergency response as per Appendix I - Emergency Coordinator Response.
- 4.3.3 PVNGS Security, after being notified by the Emergency Coordinator or STSC Communicator that a Site Area Emergency is in progress or has occurred, or has been terminated shall complete Appendix B, "Emergency Notification Call List - PVNGS Security," and notify these individuals or departments of the situation.
- 4.3.4 Operations Support Center (OSC) Activation
 - 4.3.4.1 The OSC Coordinator shall implement EPIP-12, "Operations Support Center Activation."
- 4.3.5 Emergency Operations Facility (EOF) Activation
 - 4.3.5.1 The Emergency Operations Director shall implement EPIP-13, "Emergency Operations Facility Activation."
- 4.3.6 Emergency Situation Terminated
 - 4.3.6.1 The Shift Supervisor (or Emergency Coordinator) shall ensure the "All Clear" signal is sounded for approximately (1) minute and that the following announcement is made over the plant wide telephone page (phone no 

"ATTENTION ALL PERSONNEL. THE EMERGENCY SITUATION DECLARED IN UNIT _____ HAS NOW BEEN TERMINATED". (Provide special instructions as necessary)

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- 4.3.6.2 Ensure the announcement in step 4.3.6.1 is repeated over the Site Warning Siren/Public Address System. | 9
- 4.3.6.3 Ensure steps 4.3.6.1 and 4.3.6.2 are repeated once.
- 4.3.6.4 Direct the STSC Communicator (or Government Liaison Engineer) to fill out Appendix E, "Emergency Termination Message Form," in accordance with instructions provided in Appendix F.
- 4.3.6.5 Direct the STSC Communicator (or Government Liaison Engineer) to transmit the termination per Appendix A.
- 4.3.6.6 At closeout or reduction of the SITE AREA EMERGENCY classification, the S.S./E.C. shall notify PVNGS Compliance at ext. [REDACTED] or beeper no. [REDACTED] or [REDACTED] to provide a written summary to offsite authorities within eight (8) hours. The S.S./E.C. shall provide copies of shift logs, control room logs, etc., as requested by Compliance for preparation of the report.
- 4.3.7 Record Retention
- 4.3.7.1 Appendices A, B, C, D, E, ~~I~~ ^{H&I} and ~~J~~ shall be turned over to the Emergency Planning Dept., mail station 6010, to ensure they are forwarded to DDC for proper storage in accordance with 9N219.05.00, "Document/Record Turnover Control." | 9

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EMERGENCY NOTIFICATION CALL LIST
EMERGENCY COORDINATOR/SISC COMMUNICATOR

AGENCY OR INDIVIDUAL	PRIMARY LINK	ALTERNATE LINK	ALTERNATE LINK	DATE/TIME	INITIAL CALLER	DATE/TIME	TERMINATION CALLER
Arizona Department of Public Safety	MAN			/		/	
Maricopa County Sheriff's Office	MAN			/		/	
Arizona Radiation Regulatory Agency	MAN			/		/	
Arizona Division of Emergency Services	MAN			/		/	
Maricopa County Department of Civil Defense and Emergency Services	MAN			/		/	
PVNGS Security				/		/	
Group Paging System #1				/		/	
Group Paging System #2				/		/	
PVNGS Plant Manager				/		/	
Operations Manager				/		/	
Manager*				/		/	
Maintenance Manager*				/		/	
Plant Services Manager				/		/	
Dispatcher (SOC)				/		/	
MRC Headquarters				/		/	

* Call these personnel in sequence until one of them is reached ONLY if unable to contact PVNGS Plant Manager or Operations Manager.

CONTROLLED DOCUMENT

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EMERGENCY NOTIFICATION CALL LIST - PVNGS SECURITY

	PRIMARY LINK	ALTERNATE LINK	INITIAL DATE/LINE	CALLED	TERMINATION DATE/LINE	CALLED
AGENCY OR INDIVIDUAL						
Corporate Security			/		/	
Site Construction Security Office			/		/	
Nuclear Administration			/		/	
ANPP Communications*			/		/	
ANPP Site Construction Office*			/		/	
Bechtel Emergency Control Center			/		/	



*Available during working hours only.

CONTROLLED DOCUMENT

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX C Page 1 of 1
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INITIAL EMERGENCY MESSAGE FORM
NOTIFICATION OF UNUSUAL EVENT,
ALERT, SITE AREA EMERGENCY, OR GENERAL EMERGENCY

1. Verbatim text of Message: THIS IS (IS NOT) A DRILL!! (Circle One) THIS IS PALO VERDE NUCLEAR GENERATING STATION (NOTIFICATION OF UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY)
(circle applicable classification)

declared at _____ - _____ - Wind is from _____ degrees - At _____ mph.
(time) (date) (speed)

PALO VERDE AUTHENTICATOR _____
(authenticator letters)

2. This is _____, at the Palo Verde Nuclear Generating Station (name/title)
Unit _____.

3. (Circle One)

(a) There is NO, repeat NO, radioactive release taking place and no special protective actions are recommended at this time.

OR

(b) There is NO, repeat NO, radioactive release in excess of allowable operating limits and NO protective action recommendations at this time.

OR

(c) There is NO, repeat NO, radioactive release taking place at this time. However, the following protective actions are recommended.

Sectors	Distance (Miles)
_____	_____
_____	_____

OR

(d) A radioactive release IS, repeat IS, taking place. We recommend that people in affected sectors remain indoors with windows and doors closed.

Sectors	Distance (Miles)
_____	_____
_____	_____

OR

(e) A radioactive release IS, repeat IS, taking place. We recommend that evacuation of affected sectors be considered.

Sectors	Distance (Miles)
_____	_____
_____	_____

4. THIS IS (IS NOT) A DRILL!! (Circle One)

Approved _____
(SS/EC/EO) Date Time

CONTROLLED DOCUMENT

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX D Page 1 of 3
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FOLLOW-UP EMERGENCY MESSAGE FORM

1. Verbatim text of Message: THIS IS (IS NOT) A DRILL!! (Circle One)
THIS IS A PALO VERDE NUCLEAR GENERATING STATION follow-up information
message concerning the (NOTIFICATION OF UNUSUAL EVENT) (ALERT) (SITE
AREA EMERGENCY) (GENERAL EMERGENCY)

(circle applicable classification)

declared at _____ - _____

(time) (date)

2. This is _____, at Palo Verde Nuclear Generating Station
 (name/title)
 Unit _____

3. Brief description of event _____

4. Meteorological Data

- a. Wind direction from _____ (degrees) - at _____ miles per hour
 (direction) (speed)

from _____ to _____
 (sector) (sector)

- b. Stability Class: A B C D E F G
 (Circle One)

- c. Precipitation Yes No
 (Circle One)

5. Radiological Data

- a. Radioactivity (check one)
 Has been released
 Has not been released

CONTROLLED DOCUMENT

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX D Page 2 of 3
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5. b. Release Time _____
- c. Reactor Trip Time _____
- d. Location/Source of Release _____

6. Current Release Rates

- a. I-131 Equivalent _____ Ci/second
- b. Noble Gas _____ Ci/second
- c. Particulates _____ Ci/second

7. Two-hour plume centerline projected dose at:

Distance	Sector	Whole Body Dose (REM)	Child Thyroid Dose Commitment (REM)
----------	--------	--------------------------	---

Site
Boundary

2 miles

6 miles

10 miles

8. Plume arrival time offsite:

- _____ 2 mi
- _____ 5 mi
- _____ 10 mi
- _____ Ruth Fisher School
- _____ Arlington School

9. Estimated duration of release _____ minutes

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10. The Following Emergency Measures Including Protective Actions are Recommended:

11. The Following Emergency Response Actions are Underway:

12. We Request the Following Onsite Support and Assistance from Offsite Sources:

13. Our Prognosis of the Emergency is that Conditions:

Are Under Control
 Can be Expected to Terminate Within _____ hours.
 Are Worsening

14. Other Information:

a) Power Prior to Event (%) _____
b) Current Power or Mode _____
c) Mode of Operation Till Correction _____
d) Estimated Time to Restart _____

15. THIS IS (IS NOT) A DRILL!! (Circle One)

9

CONTROLLED DOCUMENT

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX E Page 1 of 1
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EMERGENCY TERMINATION MESSAGE FORM

1. Verbatim text of message: THIS IS (IS NOT) A DRILL!! (Circle One)
THIS IS PALO VERDE NUCLEAR GENERATING STATION. THE (NOTIFICATION OF
UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY)
(circle appropriate classification) DECLARED

AT _____ - _____ HAS BEEN TERMINATED AT
(Time) (Date)

_____ - _____
(Time) (Date)

2. This is _____, at Palo Verde Nuclear Generating Station Unit _____.
(Name) (Date)

3. PALO VERDE AUTHENTICATOR _____
(Authenticator Letters)

Approved: _____
(SS/EC/EOD) Date/Time

CONTROLLED DOCUMENT

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. * EPIP-05	APPENDIX F Page 1 of 3
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INSTRUCTIONS FOR COMPLETING APPENDIX C, D OR E

1.0 INITIAL EMERGENCY MESSAGE FORM (APPENDIX C)

- 1.1 Fill in data required by steps 1 and 2 of Appendix C, "Initial Emergency Message Form." Obtain authenticator from the confidential envelope marked on the outside with the appropriate month and drill sequence number (if it is a drill).
- 1.2 Obtain from the Radiation Protection Monitor (onshift) or Radiological Assessment Coordinator (if EOF is activated) data required to complete step 3 of Appendix C.
- 1.3 Circle appropriate wording of step 4 of Appendix C.

NOTE

When the NAN ring button is pushed and it appears that all the receiving stations are on line, or, the ring has stopped, the PVNGS originating station shall initiate a roll call in the order listed below. (Consider the time of day)

NOTE

If the NAN dedicated telephone fails, refer to Appendix G, "Notification Alert Network (NAN) Radio Backup," for instructions on using channel 8, KON-511, for notifications.

- 1.4 By means of a single call on the Notification and Alert Net dedicated telephone, contact the following State/County agencies listed in Appendix A.

Duty Hours (8:00 a.m. to 5:00 p.m. Monday-Friday)

Maricopa County Sheriff's Office
Maricopa County Department of Civil Defense and Emergency Services
Arizona Department of Public Safety
Arizona Division of Emergency Services
Arizona Radiation Regulatory Agency

Off-Duty Hours (5:00 p.m. to 8:00 a.m., Monday-Friday, all day
Saturday, Sunday and Holidays)

Maricopa County Sheriff's Office
Department of Public Safety

CONTROLLED DOCUMENT

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- 1.5 In the event that an offsite government agency (or agencies) does not answer the NAN phone or NAN backup radio during a test, drill, or actual emergency, the nuclear operator (or STSC Communicator) shall notify the agency via regular PBX telephone (numbers listed in App. A).
- 1.6 When contact is made, the caller shall identify himself and request that the individuals obtain a copy of the Appropriate Emergency Message Form.
- 1.7 When each individual has obtained a copy, read the completed Emergency Message Form verbatim and request MCSO to read back verbatim. Perform warning point roll call.
- 1.8 Offer to repeat information and reiterate as necessary.

NOTE

To verify the group page activation monitor the pager installed in the STSC. Be aware that as much as two (2) minutes may lapse between dial-up and the broadcast announcement.

- 1.9 Notify additional personnel as listed in Appendix A as necessary and inform them of the situation. Provide the following message for both Group Paging Systems Notification and Callout:

"THIS IS PVNGS, UNIT __, CLASSIFICATION TWO, PLEASE RESPOND APPROPRIATELY." (Repeat message once)
- 1.10 If an individual requests information not contained in the Emergency Message Form, make reasonable efforts to obtain and give the information only after all initial notification have been made.
- 1.11 Contact the NRC via the Emergency Notification System (ENS) dedicated telephone within 60 minutes of declaring an emergency. If the ENS fails, use commercial phone or HPN phone as an alternate line.
- 1.12 When contact is made, the caller shall identify himself and read the completed Emergency Message Form verbatim (omit the Palo Verde Authenticator).
- 1.13 Offer to repeat information and reiterate as necessary.

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2.0 FOLLOW-UP EMERGENCY MESSAGE FORM (APPENDIX D)

- 2.1 Fill in data required by steps 1-3 of Appendix D, "Follow-up Emergency Message Form."

NOTE

If the emergency is non-radiological in nature, steps 4-9 may be deleted.

- 2.2 Obtain from the Radiation Protection Monitor or the Radiological Assessment Coordinator (if EOF is activated) data required to complete steps 4-9.
- 2.3 Obtain from the Emergency Coordinator or the Technical Analysis Coordinator (if EOF is activated) data required to complete steps 10-14.
- 2.4 Circle appropriate wording in step 15.
- 2.5 Dispense information when asked by offsite agencies (NRC or ARRA).

3.0 EMERGENCY TERMINATION MESSAGE FORM (APPENDIX E)

- 3.1 Fill in data required by steps 1-3 of Appendix E, "Emergency Termination Message Form."
- 3.2 Obtain approval from SS/EC/EOD.
- 3.3 Transmit termination per Appendix A.

NOTE

To verify the group page activation monitor the pager installed in the STSC. Be aware that as much as two (2) minutes may lapse between dial-up and the broadcast announcement.

- 3.4 When using the Group Paging Systems to announce event termination, use the following message:

"THIS IS PVNGS UNIT _____, EMERGENCY TERMINATED. PLEASE CANCEL RESPONSE TO EMERGENCY."

CONTROLLED DOCUMENT

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NOTIFICATION ALERT NETWORK (NAN) RADIO BACKUP CHANNEL 8 - KON511

In case of failure of the NAN ringdown telephone, the NAN backup is Channel 8 on the PVNGS radio. FCC regulations require the Palo Verde designator 'KON511' be used to precede and conclude all outgoing communications.

1. Take control of the radio channel by saying: "All stations this net," (Repeat) "All stations this net, this is K-O-N 5-1-1 Palo Verde. 5-1-1 Palo Verde to all 5-1-1 stations, stand by for warning point roll call."
2. Wait 30 seconds to allow the offsite agencies to get to their radios, then repeat the previous transmission.

NOTE

After 5 P.M. weekdays, all day Saturday, Sunday or holidays, Maricopa County Sheriff's Office (MCSO) and Department of Public Safety (DPS) will be the only agencies responding.

3. Initiate roll call of the offsite government agencies, allowing stations on the net to respond.
 - 3.1 "5-1-1 Palo Verde to 5-1-1 Maricopa County Sheriff's Office. Do you copy?"
Allow response: "5-1-1 MCSO copies."
 - 3.2 "5-1-1 Palo Verde to 5-1-1 Maricopa County Department of Civil Defense & Emergency Services. Do you copy?" (MCDCE&ES)
Allow response: "5-1-1 Civil Defense copies."
 - 3.3 "5-1-1 Palo Verde to 5-1-1 Department of public Safety. Do you copy?"
Allow response: "5-1-1 DPS copies."
 - 3.4 "5-1-1 Palo Verde to 5-1-1 Arizona Division of Emergency Services. Do you copy?"
Allow response: "5-1-1 ADES (State EOC) copies."

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- 3.5 "5-1-1 Palo Verde to 5-1-1 Arizona Radiation Regulatory Agency.
Do you copy?"
Allow Response: "5-1-1 ARRA copies."
4. Upon completion of roll call, transmit the notification message verbatim. Take an acknowledgement roll call, allowing MCSO to read the message back in its entirety, and provide assistance or clarification, as needed.
6. Upon completion of the second roll call, announce: "K-O-N 5-1-1 Palo Verde off." This is the required FCC sign-off.
7. Continue notification per Step 1.8 Appendix F.

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PROTECTIVE ACTION RECOMMENDATIONS

Classification Category	Protective Actions Recommendations
Site Area Emergency- any releases are not expected to exceed EPA/PAG exposures levels beyond the site boundary unless further degradation of safety systems occur.	Inform state and county authorities of Site Area Emergency status/cause and recommend seeking shelter within a 2 mile radius of the plant and within 5 miles in affected sectors as warranted based on plant/containment conditions and projected and/or actual releases.

per
01

CONTROLLED DOCUMENT

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PROTECTIVE ACTION RECOMMENDATIONS

Classification Category	Protective Actions Recommendations
Site Area Emergency- any releases are not expected to exceed EPA/PAG exposures levels beyond the site boundary unless further degradation of safety systems occur.	Inform state and county authorities of Site Area Emergency status/cause and consider recommending recommend seeking shelter within a 2 mile radius of the plant and within 5 miles in affected sectors as warranted based on plant/containment conditions, and projected and/or actual releases.

PLAN #1

CONTROLLED DOCUMENT

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

POSITION FILLED BY:

- 1) PVNGS Plant Manager
- 2) Manager, Technical Support
- 3) Shift Supervisor

RESPONSIBILITY:

The individual onsite with the responsibility and authority to immediately and unilaterally initiate emergency actions, including providing notification and protective action recommendations to Governmental authorities responsible for implementing offsite emergency measures. Provide for the control and coordination of onsite emergency response.

NOTE

Refer to the following pages
per appropriate facility activation

Facility Activated

Appendix I Page

STSC	1-4
TSC	5-8
TSC/EOF	9-11

INITIAL RESPONSE

1. Receive notification from the Shift Supervisor and report to the Control Room of affected unit.
2. Ensure plant wide public address announcement is made as per step 4.3.1.5 and 4.3.1.6 of this procedure.
3. Review plant status, initiating event, corrective actions and emergency classification with the Shift Supervisor.
4. Assume the position of onshift Emergency Coordinator.

CONTROLLED DOCUMENT

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

INITIAL RESPONSE

5. Activate the Satellite TSC per EPIP-11, "Technical Support Center/Satellite TSC Activation."
6. Commence notification process per Appendix F or the direct STSC Communicator to do so.
 - (1) Direct the Security Director to call in the PVNGS onsite and offsite Emergency Organization Personnel.
7. Provide plant wide public address announcement when the STSC is activated.
8. Verify personnel resources are on standby in the OSC.
9. Reevaluate the emergency classification as conditions change per EPIP-02, reclassify as necessary.
10. As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
 - (1) For a fire, dispatch Fire Team and order the Security Director to contact the Bechtel or alternate offsite fire department for assistance (if required).
 - (2) For personnel injury, contact the First Aid Station and inform them of the situation. Dispatch a First Aid Team, if necessary, and coordinate any required offsite assistance.
11. Determine any additional protective action recommendations to be provided to state and county response agencies per EPIP-15, "Protective Action Guidelines."
12. As appropriate, complete Follow-up Emergency Message Form.
13. Determine the need for offsite support and direct the STSC Communicator to call location(s) in EPIP-33, "Offsite Assistance" and arrange access with the Security Director per EPIP-24, "Security."

CONTROLLED DOCUMENT

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

SUBSEQUENT RESPONSE

Personnel Assembly and Accountability

14. Within 30 minutes of the accountability signal, receive a report on accountability in the protected area from the Security Director.
15. Receive a report on site accountability later.
16. Be prepared to implement EPIP-21, "Search and Rescue", by providing necessary data to the OSC Coordinator.

Emergency Exposures and KI

17. Per EPIP-18, "Emergency Exposure Guidelines," and as necessary, authorize emergency exposures.
18. As necessary, authorize administration of KI per EPIP-26, "Potassium Iodine (KI) Administration" to emergency workers desiring to use it. Consult with the Radiation Protection Monitor.

TSC Activation and Transfer of Authority

19. When relieved by onsite Emergency Coordinator, provide a briefing and transfer responsibilities.

OSC Activation

20. If a release is occurring, consult EPIP-12, "Operations Support Center Activation," to determine habitability of the primary OSC.
21. If uninhabitable, direct the OSC Coordinator to relocate staff and equipment/supplies to the alternate OSC (Service Building). If this is also uninhabitable, direct the OSC Coordinator to relocate to a protected area (Control Room/STSC, TSC or EOF).

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

Security

22. As necessary, implement EPIP-24, "Security," and order the Security Director to limit access to the station, contact Maricopa County Sheriff's Office for assistance in controlling site access, and arrange access for necessary personnel not on the Emergency Personnel Access List and/or not having access to the protected area via card-key system.
23. Ensure the Security Director is appraised of offsite assistance request to arrange access.

Corrective Actions

24. Determine needs, consult with staff, authorize reentry per EPIP-25, "Reentry for Emergency Operations."

Assessment Actions

25. Ensure that the Radiation Protection Monitor is obtaining needed data using EPIP-14A, "Release Rate Determination," EPIP-14B, "Initial Dose Assessment," EPIP-16, "Inplant Surveys and Sampling," and EPIP-17, "Onsite/Offsite Surveys and Sampling."

Protective Actions

26. Continue to evaluate the need for providing Protective Action recommendations.
27. Determine need for early dismissal/evacuation of non-essentials per EPIP-19, "Onsite Evacuation."
28. Establish evacuation order, offsite reassembly area, evacuation route and inform the Security Director.
29. Order evacuation signal when the Security Director reports that preparations are complete.

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Event Termination or Reduction

30. Contact PVNGS Compliance at ext. [REDACTED] or beeper [REDACTED] or [REDACTED] to provide written summary within 8 hours to offsite authorities. Provide documentation as requested.

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

INITIAL RESPONSE

1. Receive notification from the onshift Emergency Coordinator and report to the TSC. Upon arrival, sign in on the TSC staffing Board.
2. Receive a briefing from the onshift Emergency Coordinato and assume responsibilities.
3. Brief TSC and staff and evaluate adequacy of TSC activation.
4. Declare the TSC operational and inform the STSC, Control Rooms, OSC, EOF, ANPP Site Construction Office, Bechtel Emergency Control Center and PVNGS Security via site wide P.A. announcement. This notification may be delegated to the Information Monitor in the TSC.
5. As necessary, continue with or commence notification process per Appendix F or direct the STSC Communicator to do so.
6. Verify personnel resources in standby in the OSC.

SUBSEQUENT RESPONSE

7. Reevaluate the emergency classification as conditions change per EPIP-02 "Emergency Classification," reclassify as necessary.
8. As necessary, direcxt implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
 - (1) For a fire, dispatch Fire Team and order the Security Director to contact the Bechtel or alternate offsite fire department for assistance (if required)
 - (2) For personnel injury, contact the First Aid Station and inform them of the situation. Dispatch a First Aid Team, if necessary, and coordinate any required offsite assistance.

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

9. Determine additional protective action recommendations to be provided to state and county response agencies per EPIP-15, "Protective Action Guidelines."
10. As appropriate, complete Follow-up Emergency Message Form.
11. Determine the need for offsite support and direct a Communicator to call location(s) in EPIP-33, "Offsite Assistance," arrange access with the Security Director per EPIP-24, "Security."

Personnel Assembly and Accountability

12. Within 30 minutes of the accountability signal, receive a report on accountability in the protected area from the Security Director.
13. Receive a report on site accountability later.
14. Be prepared to implement EPIP-21, "Search and Rescue," by providing necessary data to the OSC Coordinator (via Emergency Maintenance Coordinator).

Emergency Exposures and KI

15. Per EPIP-18, "Emergency Exposure Guidelines," and as necessary, authorize emergency exposures.
16. As necessary, authorize administration of KI per EPIP-26 to emergency workers desiring to use it. Consult with the Radiological Protection Coordinator.

OSC Activation

17. If a release is occurring, consult EPIP-12, "Operations Support Center Activation," to determine habitability of the primary OSC.
18. If uninhabitable, direct the OSC Coordinator to relocate staff and equipment/supplies to the alternate OSC (Service Building). If this is also uninhabitable, direct the OSC Coordinator to relocate to protected area (control room/STSC, TSC or EOF).

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SITE AREA EMERGENCY RESPONSE TSC ACTIVATED

EOF Activation

19. Per EPIP-13, "Emergency Operations Facility Activation," brief the Emergency Operations Director and transfer the responsibilities for notifications and protective action recommendations.

Security

20. As necessary, implement EPIP-24, "Security," and order the Security Director to limit access to the station, contact Maricopa County Sheriff's Office for assistance in controlling site access, and arrange access for necessary personnel not on the Emergency Personnel Access List and/or not having access to the protected area via card-key system.
21. Ensure the Security Director is appraised of offsite assistance requests to arrange access.

Corrective Actions

22. Determine needs, consult with staff, authorize reentry per EPIP-25, "Reentry for Emergency Operations."

Assessment Actions

23. Ensure that the Radiological Protection Coordinator is obtaining needed data using EPIP-14A, "Release Rate Determination," EPIP-14B, "Initial Dose Assessment," EPIP-16, "Inplant Surveys and Sampling," EPIP-17, "Onsite/Offsite Surveys and Sampling."

Protective Actions

24. Continue to evaluate the need for providing any additional protective action recommendations.
25. Determine the need for early dismissal/evacuation of non-essentials per EPIP-19, "Onsite Evacuation."

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SITE AREA EMERGENCY RESPONSE TSC ACTIVATED

26. Establish evacuation order, offsite reassembly area, evacuation route and inform the Security Director.
27. Order evacuation signal when the Security Director reports that preparations are complete.

Recovery

28. After the EOF is activated, consult with the Emergency Operations director concerning implementing EPIP-31, "Recovery."

Event Termination or Reduction

29. Contact PVNGS Compliance at ext. [REDACTED] or beeper [REDACTED] or [REDACTED] to provide written summary within 8 hours to offsite authorities. Provide documentation as requested.

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EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

INITIAL RESPONSE

1. Receive notification from the onshift Emergency Coordinator and report to TSC. Upon arrival, sign in on the TSC Staffing Board.
2. Receive a briefing from the onshift Emergency Coordinator and assume responsibilities.
3. Brief TSC staff and evaluate adequacy of TSC activation.
4. Declare the TSC operational and inform the STSC, Control Rooms, OSC, EOF, ANPP Site Construction Office, Bechtel Emergency Control Center and PVNGS Security via site wide P.A. announcement. This notification may be delegated to the Information Monitor in the TIC.
5. Per EPIP-13, "Emergency Operations Facility Activation," brief the Emergency Operations Director and transfer the responsibilities for notifications and protective action recommendations.
6. Verify personnel resources are on standby in the OSC.

SUBSEQUENT RESPONSE

7. Reevaluate the emergency as conditions change per EPIP-02 "Emergency Classification," reclassify as necessary.
8. As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
 - (1) For a fire, dispatch Fire Team and order the Security Director to contact the Bechtel or alternate offsite fire department for assistance (if required).
 - (2) For personnel injury, contact the First Aid Station and inform them of the situation. Dispatch a First Aid Team, if necessary, and coordinate any required offsite assistance.

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EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

9. Determine the need for offsite support and direct the STSC Communicator to call location(s) in EPIP-33, "Offsite Assistance" and arrange access with the Security Director per EPIP-24, "Security," and coordinate with the Administrative and Logistics Coordinator at the EOF.

Personnel Assembly and Accountability

10. Within 30 minutes of the accountability signal, receive a report on accountability in the protected area from the Security Director.
11. Receive a report on site accountability later.
12. Be prepared to implement EPIP-21, "Search and Rescue," by providing necessary data to the OSC Coordinator (via Emergency Maintenance Coordinator).

Emergency Exposures and KI

13. Per EPIP-18, "Emergency Exposure Guidelines," and as necessary, authorize emergency exposures.
14. As necessary, authorize administration of KI per EPIP-26 to emergency workers desiring to use it. Consult with the Radiological Protection Coordinator.

OSC Activation

15. If a release is occurring, consult EPIP-12, "Operations Support Center Activation," to determine habitability of the primary OSC.
16. If uninhabitable, direct the OSC Coordinator to relocate staff and equipment/supplies to the alternate OSC (Service Building). If this is also uninhabitable, direct the OSC Coordinator to relocate to a protected area (Control Room/STSC, TSC or EOF).

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EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

Security

17. As necessary, implement EPIP-24, "Security," and order the Security Director to limit access to the station, contact Maricopa County Sheriff's Office for assistance in controlling site access, and arrange access for necessary personnel not on the Emergency Personnel Access list and/or not having access to the protected area via card-key system.
18. Ensure the Security Director is appraised of offsite assistance requests to arrange access.

Corrective Actions

19. Determine needs, consult with staff, authorize reentry per EPIP-25, "Reentry for Emergency Operations."

Assessment Actions

20. Ensure that the Radiological Protection Coordinator is obtaining needed data using EPIP-14A, "Release Rate Determination," EPIP-14B, "Initial Dose assessment," EPIP- 16 , "Inplant Surveys and Sampling" and EPIP-17, "Onsite/Offsite Surveys and Sampling."

Protective Actions

21. Determine the need for early dismissal/evacuation of non-essentials per EPIP-19, "Onsite Eavcuation."
22. Establish evacuation order, offsite reassembly area, evacuation route and inform the Security Director.
23. Order evacuation signal when the Security Director reports that preparations are complete.

Recovery

24. Consult with the Emergency Operations Director concerning implementing EPIP-31, "Recovery."

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Event Termination or Reduction

25. Contact PVNGS Compliance at ext. [REDACTED] or beeper [REDACTED] or [REDACTED] to provide written summary within 6 hours to offsite authorities. Provide documentation as requested.

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STSC COMMUNICATOR RESPONSE

POSITION FILLED BY:

Nuclear Operator from affected unit

RESPONSIBILITY:

Initiate the notification process as directed by the onshift Emergency Coordinator. Ensure operability of communications equipment. Maintain communications logbook.

IMMEDIATE ACTIONS

STSC Activation

1. Report to the STSC upon notification.

Notification of ALERT, SITE AREA EMERGENCY,
GENERAL EMERGENCY

2. Complete the Initial Emergency Message Form as directed by the Onshift Emergency Coordinator or Shift Supervisor.
3. Initiate notification process as directed by the Emergency Coordinator (or Shift Supervisor in his absence).
4. Inform the Emergency Coordinator when initial notifications are complete.
5. Contact the Security Director and inform him to call in additional personnel if so directed by the Emergency Coordinator.
6. Prepare the Follow-up Emergency Message Form as directed by the Emergency Coordinator.
- *7. Provide follow-up information when requested by the State/County agencies.

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Notification of ALERT, SITE AREA EMERGENCY, GENERAL EMERGENCY

- *8. Maintain records of communications received or transmitted offsite.

Offsite Assistance

9. Contact required offsite assistance (EPIP-33, "Offsite Assistance," Appendix A) via telephone if directed by the Emergency Coordinator.
10. Record name and time on "Telephone Communication Log Sheet." (EPIP-33, Appendix B)
11. Transfer call to Emergency Coordinator for clarification, if necessary.
12. Inform the Emergency Coordinator of contact/lack of contact, scope of offsite assistance and estimated time of arrival.

ACTIVATION OF ONSITE EMERGENCY ORGANIZATION

13. Transfer continuous communications link with the NRC to the NRC Liaison - Operations in the TSC.
14. Review status of notifications and transfer responsibility for notifying State/County agencies and NRC to Government Liaison Engineer in the EOF.
15. Notify the Emergency Coordinator when responsibilities have been transferred to the Government Liaison Engineer.

* Continuing Activity

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PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

ASSIGNED COPY

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PVNGS

8-9A

INTENT CHANGE: NO YES

1. PROCEDURE TITLE General Emergency Implementing Actions
2. PROCEDURE NUMBER EPIP-06 REV. 9 PCN 1
- 2a. Manager concurrence N/A to exceed 5 PCNs DATE _____
3. REASON FOR PCN: To update Protective Action Recommendations to reflect the guidance found in IEIN 93-28. Also, added statement concerning the EUS manning during events.
4. EXPIRATION: permanent
5. AFFECTED STEPS: Section 30, page 6
Appendix 4
- CHANGE REQUIRED: Delete page 6; insert 6a
Delete pages 24 and 25; insert 24a
6. PREPARED BY: Herald A. Simale 2/26/86
SIGNATURE DATE
- ENTERED IN PROCEDURE BY: _____
SIGNATURE D
7. TEMPORARY APPROVAL: N/A
SIGNATURE DATE
- SS/Assist. SS D
8. DEPT. MANAGER: [Signature] 3-6-86
SIGNATURE DATE
9. PRB/PRG/TRRG: [Signature] 3/26/86
SIGNATURE D
10. APPROVED BY: [Signature] 3/29/86
DEPARTMENT MANAGER'S SIGNATURE D
11. DATE EFFECTIVE: 04-01-86

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ASSIGNED COPY
PVNGS # 8-9A

DEPT. HEAD Harry F. Bunting for Dennis Yous DATE 12/1/85
PRB/PRG/TRRG REVIEW [Signature] DATE 1/2/86
APPROVED BY [Signature] DATE 1/6/86
EFFECTIVE DATE 01-15-86
DN-1601A/0787A

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
<u>5</u>	<u>2-14-85</u>	<u>All</u>	<u>Total Revision: Revises</u> <u>procedures and appendices.</u> <u>Included Emergency Coord.</u> <u>checklist.</u>
<u>6</u>	<u>05-01-85</u>	<u>App. A & B</u>	<u>Revised to incorporate PCN</u> <u>#01 of Rev. 5. PCN</u> <u>corrected phone #'s in App.</u> <u>A & B.</u>
<u>7</u>	<u>06-17-85</u>	<u>3, 6, 7, 8, 9</u> <u>10, 11, 13,</u> <u>14, 17, 18,</u> <u>19, 20, 22,</u> <u>25 & 29</u>	<u>Added termination message</u> <u>form and instructions. Added</u> <u>event description to follow-</u> <u>up form. Added note to</u> <u>provide guidance on</u> <u>notifications. Charged seq.</u> <u>of notifications in App. A.</u> <u>Capitalized announcement to</u> <u>make easy to identify.</u> <u>Updated all references to</u> <u>appendices.</u>

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
<u>8</u>	<u>09-10-85</u>	<u>4,6,8,9,10</u>	<u>Incorporated PCN #1 of</u>
<u> </u>	<u> </u>	<u>11,12,13,20,</u>	<u>Rev. 7, added new phone #'s,</u>
<u> </u>	<u> </u>	<u>21,26,27,29</u>	<u>& STSC Communication Check-</u>
<u> </u>	<u> </u>	<u>30,33,34,37,</u>	<u>List, plus detailed instruc-</u>
<u> </u>	<u> </u>	<u>38,39</u>	<u>tions for announcements.</u>
<u>9</u>	<u>01-15-86</u>	<u>4,8,9,10,12,11,</u>	<u>Incorporated PCN #1 and 2 of</u>
<u> </u>	<u> </u>	<u>13,14,15,17,</u>	<u>Rev. 8, Deleted Time/</u>
<u> </u>	<u> </u>	<u>18,24,26,27,</u>	<u>Initials column in</u>
<u> </u>	<u> </u>	<u>28,29,30,31,</u>	<u>Appendices I and J.</u>
<u> </u>	<u> </u>	<u>32,33,34,35,</u>	<u> </u>
<u> </u>	<u> </u>	<u>36,37,38,39</u>	<u> </u>
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1.0 OBJECTIVE

- 1.1 This procedure provides a series of implementing actions to be taken upon declaration of a GENERAL EMERGENCY.

2.0 REFERENCES

2.1 Implementing References

- 2.1.1 EPIP-02, "Emergency Classification"
- 2.1.2 EPIP-11, "Technical Support Center/Satellite TSC Activation"
- 2.1.3 EPIP-12, "Operations Support Center Activation"
- 2.1.4 EPIP-13, "Emergency Operations Facility Activation"
- 2.1.5 EPIP-14A, "Release Rate Determination"
- 2.1.6 EPIP-14B, "Initial Dose Assessment"
- 2.1.7 EPIP-15, "Protective Action Guidelines"
- 2.1.8 EPIP-16, "Inplant Surveys and Sampling"
- 2.1.9 EPIP-17, "Onsite/Offsite Surveys and Sampling"
- 2.1.10 EPIP-18, "Emergency Exposure Guidelines"
- 2.1.11 EPIP-19, "Onsite Evacuation"
- 2.1.12 EPIP-20, "Personnel Assembly and Accountability"
- 2.1.13 EPIP-21, "Search and Rescue"
- 2.1.14 EPIP-22, "Personnel Injury"
- 2.1.15 EPIP-23, "Fire Fighting"
- 2.1.16 EPIP-24, "Security"
- 2.1.17 EPIP-25, "Reentry for Recovery Operations"
- 2.1.18 EPIP-26, "Potassium Iodide (KI) Administration"

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2.1.19 EPIP-31, "Recovery"

2.1.20 EPIP-33, "Offsite Assistance"

2.1.21 71AC-9ZZ01, "Event Related Reporting"

2.1.22 9N219.05.00, "Document/Record Turnover Control"

2.2 Developmental References

2.2.1 NUREG-0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."

2.2.2 PVNGS Emergency Plan, Rev. 6

3.0 LIMITATIONS AND PRECAUTIONS

3.1 Continued surveillance and assessment of plant conditions are necessary to ensure that the emergency classification is appropriately revised as conditions change or more definitive information is obtained.

3.2 Notifications to State/County agencies per Appendix A, "Emergency Notification Call List - Emergency Coordinator/STSC Communicator" shall commence within 15 minutes of declaration of an emergency.

4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination

4.1.1 In a GENERAL EMERGENCY, events are in progress or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Radioactive releases which may occur can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area. There is prompt notification of NRC and appropriate state and county authorities of the General Emergency status.

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- 2.1.19 EPIP-31, "Recovery"
- 2.1.20 EPIP-33, "Offsite Assistance"
- 2.1.21 71AC-9ZZ01, "Event Related Reporting"
- 2.1.22 9N219.05.00, "Document/Record Turnover Control"

2.2 Developmental References

- 2.2.1 NUREG-0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."
- 2.2.2 PVNGS Emergency Plan, Rev. 6

3.0 LIMITATIONS AND PRECAUTIONS

- 3.1 Continued surveillance and assessment of plant conditions are necessary to ensure that the emergency classification is appropriately revised as conditions change or more definitive information is obtained.
- 3.2 Notifications to State/County agencies per Appendix A, "Emergency Notification Call List - Emergency Coordinator/STSC Communicator" shall commence within 15 minutes of declaration of an emergency.
- 3.3 *All notifications should be completed prior to contacting the NRC as the ENS must be manned continuously at the NRC's request.*

4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination

- 4.1.1 In a GENERAL EMERGENCY, events are in progress or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Radioactive releases which may occur can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area. There is prompt notification of NRC and appropriate state and county authorities of the General Emergency status.

REV 1

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4.1.2 Accordingly, prompt consideration of appropriate protective actions, based on actual or projected data, is warranted. Consideration of predetermined protective action recommendations (in the event of potential loss of fission product barriers) may also be warranted. Onsite and offsite emergency centers are activated. Onsite evacuation shall be initiated if appropriate. The station shall provide updated radiological/meteorological information to offsite emergency management organizations as necessary. The GENERAL EMERGENCY status shall be maintained until the event is terminated or reclassification takes place.

4.1.3 The Shift Supervisor or the Emergency Coordinator shall be responsible for initiating and completing the implementing actions of this procedure.

4.2 Prerequisites

4.2.1 The emergency has been classified per EPIP-02, "Emergency Classification."

4.3 Instructions

4.3.1 The affected unit Shift Supervisor shall perform the following:

NOTE

Designated Unaffected Unit Shift Supervisor to assume the role of the Emergency Coordinator in the Onshift Emergency Organization are:

Affected Unit	Unaffected Unit Shift Supervisor
Unit 1	Unit 2
Unit 2	Unit 1
Unit 3	Unit 2
Entire Site	Unit 1

4.3.1.1 Notify the Shift Supervisor of the designated unaffected unit (or Shift Supervisor of an unaffected unit) to report to the Control Room of the affected unit and assume the duties of the Emergency Coordinator.

4.3.1.2 Notify the Control Rooms of the unaffected units.

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NOTE

Initial notifications shall be made from the Satellite TSC by the Satellite TSC Communicator until activation of the EOF. At that time all subsequent initial and follow up notifications shall be made by the Government Liaison Engineer in the EOF.

NOTE

If the emergency situation is terminated before initial notifications are finished, complete the notifications per Appendix A. Then repeat Appendix A with the notification of termination. If the emergency is terminated before initial notifications can be started, provide both initiating and terminating messages in the same call.

NOTE

Protective action recommendations (Appendix H) are based on plant and containment conditions and these recommendations are made to offsite officials even when no release is in progress. For a General Emergency, as a minimum, recommend shelter within a 2 mile radius and out to 5 miles within potentially affected sectors.

- 4.3.1.3 Direct the Satellite TSC Communicator (or Government Liaison Engineer) to fill out Appendix C, "Initial Emergency Message Form," in accordance with instructions provided in Appendix F.
- 4.3.1.4 Ensure the accountability signal is sounded for approximately one minute.
- 4.3.1.5 Silence the signal and ensure the following announcement is made over the plant wide telephone page (phone no.

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"ATTENTION ALL PLANT PERSONNEL, AN EMERGENCY SITUATION CLASSIFIED AS A GENERAL EMERGENCY EXISTS IN UNIT _____. ASSEMBLY AND ACCOUNTABILITY ARE NOW IN PROGRESS. ALL AFFECTED UNIT EMERGENCY RESPONSE PERSONNEL AND ALTERNATES REPORT TO YOUR EMERGENCY LOCATION. ALL OTHER PERSONNEL REPORT TO YOUR ASSIGNED ASSEMBLY AREA."
(Provide instructions on routes or areas to avoid as appropriate).

- 4.3.1.6 Ensure the announcement in Step 4.3.1.5 is repeated over the Site Warning Siren/Public Address System.
- 4.3.1.7 Ensure the accountability signal is resounded and the announcement in Steps 4.3.1.5 and 4.3.1.6 is repeated.
- 4.3.1.8 Ensure that actions of the appropriate recovery or casualty procedures have been implemented.
- 4.3.2 The Emergency Coordinator shall perform the following:
 - 4.3.2.1 Ensure activation of the satellite TSC in accordance with EPIP-11, "Technical Support Center/Satellite TSC Activation."
 - 4.3.2.2 Following accountability, and if conditions warrant, initiate EPIP-19, "Onsite Evacuation."
 - 4.3.2.3 Implement additional Emergency Plan Implementing Procedures according to the situation that resulted in the emergency being classified as a GENERAL EMERGENCY.
 - 4.3.2.4 Direct the Security Director to call in Onsite and Offsite Emergency Organization personnel by utilizing the appropriate computer call-out listing.
 - 4.3.2.5 Direct the STSC Communicator (or Government Liaison Engineer) to prepare Appendix D, "Follow-up Emergency Message Form" in accordance with instructions provided in Appendix F.
 - 4.3.2.6 Determine the need for offsite assistance. If assistance is necessary, direct the STSC Communicator (onshift) or Administrative and Logistics Coordinator to contact the required agency per EPIP-33, "Offsite Assistance."
 - 4.3.2.7 Reevaluate the emergency classification and perform licensee actions as conditions change by implementing procedure EPIP-02.

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- 4.3.2.8 When the situation warrants downgrading from a GENERAL EMERGENCY, proceed to appropriate implementing and notification procedures and direct the Shift Supervisor to announce the downgrading over the public address system and inform the other Control Rooms.
- 4.3.2.9 Provide overall direction and control of the ONSHIFT emergency response as per Appendix I - Emergency Coordinator Response.
- 4.3.3 PVNGS Security, after being notified by the Emergency Coordinator or STSC Communicator that a General Emergency is in progress or has occurred, or has been terminated, shall complete Appendix B, "Emergency Notification Call List - PVNGS Security," and notify these individuals or departments of the situation.
- 4.3.4 Operations Support Center (OSC) Activation
 - 4.3.4.1 The OSC Coordinator shall implement EPIP-12, "Operations Support Center Activation."
- 4.3.5 Emergency Operations Facility (EOF) Activation
 - 4.3.5.1 The Emergency Operations Director shall implement procedure EPIP-13, "Emergency Operations Facility Activation."
- 4.3.6 Emergency Situation Terminated
 - 4.3.6.1 The Shift Supervisor (or Emergency Coordinator) shall ensure the "All Clear" signal is sounded for approximately (1) minute and that the following announcement is made over the plant wide page (phone no.

"ATTENTION ALL PERSONNEL. THE EMERGENCY SITUATION DECLARED IN UNIT _____ HAS NOW BEEN TERMINATED. (Provide special instructions as necessary)
 - 4.3.6.2 Ensure the announcement in Step 4.3.6.1 is repeated over the Site Warning Siren/Public Address System.
 - 4.3.6.3 Ensure Steps 4.3.6.1 and 4.3.6.2 are repeated once.
 - 4.3.6.4 Direct the STSC Communicator (or Government Liaison Engineer) to fill out Appendix E, "Emergency Termination Message Form," per instructions provided in Appendix F.

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4.3.6.5 Direct the STSC Communicator (or Government Liaison Engineer) to transmit the termination per Appendix A.

4.3.6.6 At close out or reduction of the GENERAL EMERGENCY classification, the S.S./E.C. shall notify PVNGS Compliance Dept. at ext. [REDACTED] or beeper no. [REDACTED] or [REDACTED] to provide written summary of the event to offsite authorities within eight (8) hours. S.S./E.C. shall provide shift logs, control room logs, etc. as requested by Compliance for preparation of the report.

4.3.7 Record Retention

4.3.7.1 Appendices A, B, C, D, E, ~~I and J~~ ^{HAX} shall be turned over to the Emergency Planning Dept., mail station 6010 to ensure they are forwarded to DDC for proper storage in accordance with 9N219.05.00, "Document/Record Turnover Control." | 9

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EMERGENCY NOTIFICATION CALL LIST
EMERGENCY COORDINATOR/STSC COMMUNICATOR

AGENCY OR INDIVIDUAL	PRIMARY LINK	ALTERNATE LINK	ALTERNATE LINK DATE/TIME	INITIAL CALLER DATE/TIME	INITIAL CALLER DATE/TIME	TERMINATION CALLER DATE/TIME
Arizona Department of Public Safety	NAN	[REDACTED]	/	/	/	/
Maricopa County Sheriff's Office	NAN		/	/	/	/
Arizona Radiation Regulatory Agency	NAN		/	/	/	/
Arizona Division of Emergency Services	NAN		/	/	/	/
Maricopa County Department of Civil Defense and Emergency Services	NAN		/	/	/	/
PVNGS Security			/	/	/	/
Group Paging System #1			/	/	/	/
Group Paging System #2			/	/	/	/
PVNGS Plant Manager			/	/	/	/
Operations Manager			/	/	/	/
Manager*			/	/	/	/
Maintenance Manager *			/	/	/	/
Plant Services Manager			/	/	/	/
Dispatcher (SOC)			/	/	/	/
NRC Headquarters			/	/	/	/

* Call these personnel in sequence until one of them is reached ONLY if unable to contact PVNGS Plant Manager of Operations Manager.

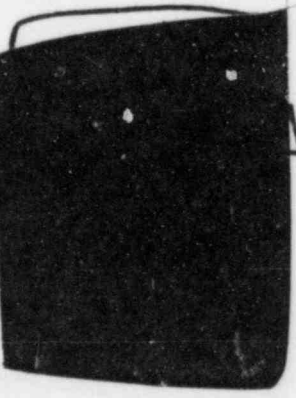
CONTROLLED DOCUMENT

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EMERGENCY NOTIFICATION CALL LIST - PVNGS SECURITY

AGENCY OR INDIVIDUAL	PRIMARY LINK	ALTERNATE LINK	INITIAL DATE/TIME	CALLER	TERMINATION DATE/TIME	CALLER
Corporate Security			/		/	
Site Construction Security Office			/		/	
Nuclear Administration			/		/	
ANPP Communications*			/		/	
ANPP Site Construction Office*			/		/	
Bechtel Emergency Control Center			/		/	



*Available during working hours only.

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INITIAL EMERGENCY MESSAGE FORM
NOTIFICATION OF UNUSUAL EVENT,
ALERT, SITE AREA EMERGENCY, OR GENERAL EMERGENCY

1. Verbatim text of Message: THIS IS (IS NOT) A DRILL!! (Circle One)
THIS IS PALO VERDE NUCLEAR GENERATING STATION (NOTIFICATION OF UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY)
 (circle appropriate classification)

declared at _____ - _____ - Wind is from _____ degrees - At _____ mph.
 (time) (date) (speed)

PALO VERDE AUTHENTICATOR _____
 (authenticator letters)

2. This is _____, at the Palo Verde Nuclear Generating Station Unit _____.
 (name/title)

3. (Circle One)
- (a) There is NO, repeat NO, radioactive release taking place and no special protective actions are recommended at this time.
 OR
- (b) There is NO, repeat NO, radioactive release in excess of allowable operating limits and NO protective action recommendations at this time.
 OR
- (c) There is NO, repeat NO, radioactive release taking place at this time. However, the following protective actions are recommended.
- | | |
|---------|------------------|
| Sectors | Distance (Miles) |
| _____ | _____ |
| _____ | _____ |
- OR
- (d) A radioactive release IS, repeat IS, taking place. We recommend that people in affected sectors remain indoors with windows and doors closed.
- | | |
|---------|------------------|
| Sectors | Distance (Miles) |
| _____ | _____ |
| _____ | _____ |

- OR
- (e) A radioactive release IS, repeat IS, taking place. We recommend that evacuation of affected sectors be considered.
- | | |
|---------|------------------|
| Sectors | Distance (Miles) |
| _____ | _____ |
| _____ | _____ |

4. THIS IS (IS NOT) A DRILL!! (Circle One)

Approved _____ (S.S./E.C./E.O.D.) _____ Date _____ Time _____

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FOLLOW-UP EMERGENCY MESSAGE FORM

1. Verbatim text of Message: THIS IS (IS NOT) A DRILL!! (Circle One)
THIS IS A PALO VERDE NUCLEAR GENERATING STATION follow-up information
message concerning the (NOTIFICATION OF UNUSUAL EVENT) (ALERT) (SITE
AREA EMERGENCY) (GENERAL EMERGENCY)
(circle appropriate classification)

declared at _____ - _____
(time) (date)

2. This is _____, at Palo Verde Nuclear Generating Station
(name/title) Unit _____

3. Brief description of the event _____
- _____
- _____
- _____
- _____

4. Meteorological Data

a. Wind direction from _____ (degrees) - at _____ miles per hour
(direction) (speed)

from _____ to _____
(sector) (sector)

b. Stability Class: A B C D E F G
(Circle One)

c. Precipitation Yes No
(Circle One)

5. Radiological Data

- a. Radioactivity (check one)

() Has been released
() Has not been released

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5. b. Release Time _____
- c. Reactor Trip Time _____
- d. Location/Source of Release _____

6. Current Release Rates

- a. I-131 Equivalent _____ Ci/second
- b. Noble Gas _____ Ci/second
- c. Particulates _____ Ci/second

7. Two-hour plume centerline projected dose at:

Distance	Sector	Whole Body Dose (REM)	Child Thyroid Dose Commitment (REM)
Site			
Boundary			
2 miles			
5 miles			
10 miles			

8. Plume arrival time offsite:

	2 mi
	5 mi
	10 mi
	Ruth Fisher School
	Arlington School

9. Estimated duration of release _____ minutes

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10. The Following Emergency Measures Including Protective Actions are Recommended:

11. The Following Emergency Response Actions are Underway:

12. We Request the Following Onsite Support and Assistance from Offsite Sources:

13. Our Prognosis of the Emergency is that Conditions:

- Are Under Control
- Can Be Expected to Terminate Within ____ hours
- Are Worsening

14. Other Information:

- a) Power Prior to Event (%) _____
- b) Current Power or mode _____
- c) Mode of Operation Till Correction _____
- d) Estimated Time to Restart _____

15. THIS IS (IS NOT) A DRILL! (Circle One)

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EMERGENCY TERMINATION MESSAGE FORM

1. Verbatim text of message: THIS IS (IS NOT) A DRILL!! (Circle One)
THIS IS PALO VERDE NUCLEAR GENERATING STATION. THE (NOTIFICATION OF
UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY)
(circle appropriate classification) DECLARED
AT _____ - _____ HAS BEEN TERMINATED AT
(Time) (Date)
_____- _____
(Time) (Date)
2. This is _____, at Palo Verde Nuclear Generating Station Unit _____.
(Name) (Date)
3. PALO VERDE AUTHENTICATOR _____
(Authenticator Letters)

Approved: _____
(SS/EC/EOD) Date/Time

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INSTRUCTIONS FOR COMPLETING APPENDIX C, D OR E

1.0 INITIAL EMERGENCY MESSAGE FORM (APPENDIX C)

- 1.1 Fill in data required by steps 1 and 2 of Appendix C, "Initial Emergency Message Form." Obtain authenticator from the confidential envelope marked on the outside with the appropriate month and drill sequence number (if it is a drill).
- 1.2 Obtain from the Radiation Protection Monitor (onshift) or Radiological Assessment Coordinator (if EOF is activated) data required to complete step 3 of Appendix C.
- 1.3 Circle appropriate wording of step 4 of Appendix A.

NOTE

When the NAN ring button is pushed and it appears that all the receiving stations are on line, or, the ring has stopped, the PVNGS originating station shall initiate a roll call in the order listed below. (Consider the time of day)

NOTE

If the NAN dedicated telephone fails, refer to Appendix G, "Notification Alert Network (NAN) Radio Backup," for instructions on using channel 8, KON-511, for notification.

- 1.4 By means of a single call on the Notification and Alert Net dedicated telephone, contact the following State/County agencies listed in Appendix A.

Duty Hours (8:00 a.m. to 5:00 p.m. Monday-Friday)

Maricopa County Sheriff's Office
Maricopa County Department of Civil Defense and Emergency Services
Arizona Department of Public Safety
Arizona Division of Emergency Services
Arizona Radiation Regulatory Agency

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Off-Duty Hours (5:00 p.m. to 8:00 a.m., Monday-Friday, all day Saturday, Sunday and holidays)

Maricopa County Sheriff's Office
Department of Public Safety

- 1.5 In the event that an offsite government agency (or agencies) does not answer the NAN phone or NAN backup radio during a test, drill or actual emergency, the Nuclear Operator (or STSC Communicator) shall notify the agency via regular PBX telephone (numbers listed in Appendix A).
- 1.6 When contact is made, the caller shall identify himself and request that the individuals obtain a copy of the Appropriate Emergency Message Form.
- 1.7 When each individual has obtained a copy, read the completed Emergency Message Form verbatim and request MCSO to read back verbatim. Perform warning point roll call.
- 1.8 Offer to repeat information and reiterate as necessary.

NOTE

To verify the group page activation, monitor the pager installed in the STSC. Be aware that as much as two (2) minutes may lapse between dial-up and the broadcast announcement.

- 1.9 Notify additional personnel as listed in Appendix A as necessary and inform them of the situation. Provide the following message for both Group Paging Systems Notification and Callout:

"THIS IS PVNGS, UNIT _____, CLASSIFICATION TWO, PLEASE RESPOND APPROPRIATELY." (Repeat message once).
- 1.10 If an individual requests information not contained in the Emergency Message Form, make reasonable efforts to obtain and give the information only after all initial notification have been made.
- 1.11 Contact the NRC via the Emergency Notification System (ENS) dedicated telephone within 60 minutes of declaring an emergency. If the ENS fails, use commercial phone or HPN phone as an alternate line.

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1.12 When contact is made, the caller shall identify himself and read the completed Emergency Message Form verbatim (omit the Palo Verde Authenticator).

1.13 Offer to repeat information and reiterate as necessary.

2.0 FOLLOW-UP EMERGENCY MESSAGE FORM (APPENDIX D)

2.1 Fill in data required by steps 1-3 of Appendix D, "Follow-up Emergency Message Form."

NOTE

If the emergency is non-radiological in nature, steps 4-9 may be deleted.

2.2 Obtain from the Radiation Protection Monitor or the Radiological Assessment Coordinator (If EOF is activated) data required to complete steps 4-9.

2.3 Obtain from the Emergency Coordinator or the Technical Analysis Coordinator (If EOF is activated) data required to complete steps 10-14.

2.4 Circle appropriate wording in step 15.

2.5 Dispense information when asked by offsite agencies (NRC or ARRA).

3.0 EMERGENCY TERMINATION MESSAGE FORM (APPENDIX E)

3.1 Fill in data required by steps 1-3 at Appendix E, "Emergency Termination Message Form."

3.2 Obtain approval from SS/EC/EOD.

3.3 Transmit termination per Appendix A.

NOTE

To verify the group page activation, monitor the pager installed in the STSC. Be aware that as much as two (2) minutes may lapse between dial-up and the broadcast announcement.

3.4 When using the Group Paging Systems to announce event termination, use the following message:

"THIS IS PVNGS UNIT _____, EMERGENCY TERMINATED. PLEASE
CANCEL RESPONSE TO EMERGENCY."

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NOTIFICATION ALERT NETWORK (NAN) RADIO BACKUP Channel 8 - KONS11

In case of failure of the NAN ringdown telephone, the NAN backup is Channel 8 on the PVNGS radio. FCC regulations require the Palo Verde Designator 'KONS11' be used to precede and conclude all outgoing communications.

1. Take control of the radio channel by saying: "All stations this net," (Repeat) "All stations this net, this is K-O-N 5-1-1 Palo Verde. 5-1-1 Palo Verde to all 5-1-1 stations, stand by for Warning Point roll call."
2. Wait thirty seconds to allow the offsite agencies to get to their radios, then repeat the previous transmission.

NOTE

After 5 P.M. weekdays, all day Saturday, Sunday or holidays, Maricopa County Sheriff's Office (MCSO) and Department of Public Safety (DPS) will be the only agencies responding.

3. Initiate roll call of the offsite government agencies, allowing stations on the net to respond.
 - 3.1 "5-1-1 Palo Verde to 5-1-1 Maricopa County Sheriff's Office. Do you copy?"
Allow Response: "5-1-1 MCSO copies."
 - 3.2 "5-1-1 Palo Verde to 5-1-1 Maricopa County Department of Civil Defense & Emergency Services. Do you copy?" (MCDCE&ES)
Allow response: "5-1-1 Civil Defense copies."
 - 3.3 "5-1-1 Palo Verde to 5-1-1 Department of Public Safety. Do you copy?"
Allow response: "5-1-1 DPS copies."
 - 3.4 "5-1-1 Palo Verde to 5-1-1 Arizona Division of Emergency Services. Do you copy?"
Allow response: "5-1-1 ADES (State EOC) copies."
 - 3.5 "5-1-1 Palo Verde to 5-1-1 Arizona Radiation Regulatory Agency. Do you copy?"
Allow response: "5-1-1 ARRA copies."

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4. Upon completion of roll call, transmit the notification message verbatim. Take acknowledgement roll call, allowing MCSO to read the message back in its entirety, and provide assistance or clarification, as needed.
5. Upon completion of the second roll call, announce: "K-O-N 5-1-1 Palo Verde off." This is the required FCC sign-off.
6. Continue notification per Step 1.8 Appendix F.

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PROTECTIVE ACTION RECOMMENDATIONS

Classification Category	Protective Actions Recommendations
<p>1. A General Emergency has been declared if: (imminent/actual loss of physical control of the plant)</p>	<p>Recommend shelter within a 2 mile radius, and out to 5 miles within potentially affected sectors* Consider a 2 mile precautionary evacuation.</p>
<p>2. A General Emergency has been declared and large amounts of fission products are in the containment atmosphere. The projected dose using containment area monitor readings is calculated to be: a) whole body > 5 rem b) thyroid > 25 rem</p>	<p>In addition to considering a 2 mile evacuation, consider a 5 mile downwind evacuation of potentially affected sectors.*</p>
<p>3. A General Emergency has been declared and containment failure leading to a direct atmospheric release is likely in the sequence but <u>not</u> imminent and large amounts of fission products in addition to noble gases are in the containment atmosphere. The projected dose using containment area monitor readings is calculated to be: a) whole body > 5 rem b) thyroid > 25 rem</p>	<p>In addition to considering a 2 mile 360° precautionary evacuation, consider a precautionary 360° evacuation to 5 miles and a downwind evacuation to 10 miles of potentially affected sectors. *</p>
<p>4. A General Emergency has been declared and large amounts of fission products other than noble gases in the containment atmosphere and containment <u>failure</u> is <u>judged imminent</u>. The projected dose using containment area monitor readings is calculated to be: a) whole body > 5 rems b) thyroid > 25 rems</p>	<p>In addition to considering a 2 mile 360° precautionary evacuation consider a precautionary 360° evacuation to 5 miles and a downwind evacuation to 10 miles of potentially affected sectors,* and consider shelter for areas where evacuation cannot be completed before the transport of activity to those areas.</p>

* Plume width is equal to 3 sigma y (as a minimum, the downwind sectors and adjacent sectors).

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per

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PCW #11

PROTECTIVE ACTION RECOMMENDATIONS

Classification Category	Protective Action Recommendation
1. A General Emergency has been declared as per EPIP-02, "Emergency Classification."	Shelter within 2-mile radius and 5 miles in potentially affected sectors.*
2. EPA Protective Action Guidelines are projected to be exceeded.	In accordance with EPA Protective Action Guidelines:
a) whole body > 1 rem to < 5 rems thyroid > 5 rems to < 25 rems	Recommend shelter, as a minimum, for affected sectors* and consider evacuation unless time constraints make it impractical.
b) whole body > 5 rems thyroid > 25 rems	Recommend evacuation for affected sectors* or shelter for those areas that cannot be evacuated before plume arrival.
3. Substantial core damage has occurred or is projected to the extent that 20% of fuel clad gap activity is released from fuel.	Evacuation for 2-mile radius and 5 miles in potentially affected sectors.*
4. Large fission product inventory (greater than fuel clad gap activity) has been released to containment.	Evacuation for 5-mile radius and 10 miles in potentially affected sectors.*
5. Imminent containment failure is projected such that a "puff" release greater than design leak rate will occur, in conjunction with 3. or 4. above.	Shelter for areas that cannot be evacuated before plume arrival; evacuation of remainder of 5-mile radius and 10-mile in potentially affected sectors.*
* Affected sectors include, as a minimum, the downwind sector(s) and adjacent sectors. For plumes in sectors P, Q, or N, two sectors on either side of the affected sector shall be included in the recommendation (e.g., a plume in sector P shall require consideration of sectors M, N, Q and R).	

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PROTECTIVE ACTION RECOMMENDATIONS (CONT'D)

Classification Category	Protective Actions Recommendations
5. An actual release has occurred and the projected dose to individuals in the population is calculated to be: a) whole body ≥ 0.5 to < 1 rem b) thyroid ≥ 1.0 to < 5 rems	Recommend seeking shelter 360° for 2 miles and in affected sectors out to 10 miles.
6. An actual release has occurred and the projected dose to individuals in the population is calculated to be: a) whole body > 1 rem to ≤ 5 rems b) thyroid > 5 rems to ≤ 25 rems	Recommend a 360° evacuation for 2 miles and in affected sectors* out to 10 miles. Recommend seeking shelter 360° out to 10 miles.
7. An actual release has occurred and the projected dose to individuals in the population is calculated to be: a) whole body > 5 rems b) thyroid > 25 rems	Recommend a 360° evacuation for 5 miles and in affected sectors* out to 10 miles. Recommend seeking shelter 360° out to 10 miles.

* Plume width is equal to 3 sigma y (as a minimum, the downwind sector(s) and adjacent sectors).

per 101

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9

EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

POSITION FILLED BY:

- 1) PVNGS Plant Manager
- 2) Manager, Technical Support
- 3) Shift Supervisor

RESPONSIBILITY:

The individual onsite with the responsibility and authority to immediately and unilaterally initiate emergency actions, including providing notification and protective action recommendations to Governmental authorities responsible for implementing offsite emergency measures. Provide for the control and coordination of onsite emergency response.

NOTE

Refer to the following pages
per appropriate facility activation

<u>Facility Activated</u>	<u>Appendix I Page</u>
STSC	1 - 4
TSC	5 - 8
TSC/EOF	9 - 12

INITIAL RESPONSE

1. Receive notification from the Shift Supervisor and report to the Control Room of affected unit.
2. Ensure site wide P.A. announcement is made as per steps 4.3.1.5 and 4.3.1.6 of this procedure.
3. Review plant status, initiating event, corrective actions and emergency classification with the Shift Supervisor.
4. Assume the position of onshift Emergency Coordinator.
5. Activate the Satellite TSC per EPIP-11, "Technical Support Center/Satellite TSC Activation."
6. Commence notification process per Appendix F or direct STSC Communicator to do so.
 - (1) Direct the Security Director to call in the PVNGS onsite and offsite Emergency Organization personnel.

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

SUBSEQUENT RESPONSE

7. Provide plant wide public address announcements where the STSC is activated.
8. Verify personnel resources are on standby in the OSC.
9. Reevaluate the emergency classification as conditions change per EPIP-02, reclassify as necessary.
10. As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
 - (1) For a fire, dispatch Fire Team and order the Security Director to contact the Bechtel or alternate offsite fire dept. for assistance (if required).
 - (2) For personnel injury, contact the First Aid Station and inform them of the situation. Dispatch a First Aid Team, if necessary, and coordinate any required offsite assistance.
11. Determine any additional protective action recommendations to be provided to state and county response agencies per EPIP-15, "Protective Action Guidelines."
12. As appropriate, complete Follow-up Emergency Message Form.
13. Determine need for offsite support and direct the STSC Communicator to call location(s) in EPIP-33, "Offsite Assistance" and arrange access with the Security Director per EPIP-24, "Security."

Personnel Assembly and Accountability

14. Within 30 minutes of the accountability signal, receive a report on accountability in the protected area from the Security Director.
15. Receive a report on site accountability later.
16. Be prepared to implement EPIP-21, "Search and Rescue," by providing necessary data to the OSC Coordinator.

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

Emergency Exposures and KI

17. Per EPIP-18, "Emergency Exposure Guidelines," and as necessary, authorize emergency exposures.
18. As necessary, authorize administration of KI per EPIP-26, "Potassium Iodide (KI) Administration" to emergency workers desiring to use it. Consult with the Radiation Protection Monitor.

TSC Activation and Transfer of Authority

19. When relieved by the onsite Emergency Coordinator provide a briefing and transfer responsibilities.

OSC Activation

20. If a release is occurring, consult EPIP-12, "Operations Support Center Activation," to determine habitability of primary OSC.
21. If uninhabitable, direct the OSC Coordinator to relocate staff and equipment/supplies to the alternate OSC (Service Building). If this is also uninhabitable, direct the OSC Coordinator to relocate to a protected area (Control Room/STSC, TSC or EOF).

Security

22. As necessary, implement EPIP-24, "Security," and order the Security Director to limit access to the station, contact Maricopa County Sheriff's Office for assistance in controlling site access, and arrange access for necessary personnel not on the Emergency Personnel Access List and/or not having access to the protected area via card-key system.
23. Ensure the Security Director is appraised of offsite assistance requests to arrange access.
24. Determine needs, consult with staff, authorize reentry per EPIP-25, "Reentry for Emergency Operations."

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

Assessment Actions

25. Ensure that the Radiation Protection Monitor or is obtaining needed data using EPIP-14A, "Release Rate Determination," EPIP-14B, "Initial Dose Assessment," EPIP-16, "Inplant Surveys and Sampling" and EPIP-17, "Onsite/Offsite Surveys and Sampling."

Protective Actions

26. Continue to evaluate the need for providing any additional protective action recommendations.
27. Determine need for early dismissal/evacuation of non-essentials per EPIP-19, "Onsite Evacuation."
28. Establish evacuation order, offsite reassembly area, evacuation route and inform the Security Director.
29. Order evacuation signal when the Security Director reports that preparations are complete.

Event Termination or Reduction

30. Contact PVNGS Compliance at Ext. [REDACTED] or beeper No. [REDACTED] or [REDACTED] to provide written summary within 8 hours to offsite authorities. Provide documentation as requested.

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

INITIAL RESPONSE

1. Receive notification from the onshift Emergency Coordinator and report to the TSC. Upon arrival, sign in on the TSC Staffing Board
2. Receive a briefing from the onshift Emergency Coordinator and assume responsibilities.
3. Brief TSC staff and evaluate adequacy of TSC activation.
4. Declare the TSC operational and inform the STSC, Control Rooms, OSC, EOF, ANPP Site Construction Office, Bechtel Emergency Control Center and PVNGS Security via site wide P.A. announcement. This notification may be delegated to the Information Monitor in the TSC.
5. As necessary continue with or commence notification process per Appendix F or direct the STSC Communicator to do so. --
6. Verify personnel resources are on standby in the OSC.

SUBSEQUENT RESPONSE

7. Reevaluate the emergency classification as conditions change per EPIP-02 "Emergency Classification," reclassify as necessary.
8. As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

- (1) For a fire, dispatch Fire Team and order the Security Director to contact the Bechtel or alternate offsite fire department for assistance (if required).
- (2) For personnel injury, contact the First Aid Station and inform them of the situation. Dispatch a First Aid Team, if necessary, and coordinate any required offsite assistance.
9. Determine any additional protective action recommendations to be provided to state and county response agencies per EPIP-15, "Protective Action Guidelines."
10. As appropriate, complete Follow-up Emergency Message Form.
11. Determine the need for offsite support and direct the STSC Communicator to call location(s) in EPIP-33, "Offsite Assistance," arrange access with the Security Director per EPIP-24, "Security."

Personnel Assembly and Accountability

12. Within 30 minutes of the accountability signal, receive a report on accountability in the protected area from the Security Director.
13. Receive a report on site accountability later.
14. Be prepared to implement EPIP-21, "Search and Rescue," by providing necessary data to the OSC Coordinator (via Emergency Maintenance Coordinator).

Emergency Exposures and KI

15. Per EPIP-18, "Emergency Exposure Guidelines," and as necessary, authorize emergency exposures.

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

16. As necessary, authorize administration of KI per EPIP-26 to emergency workers desiring to use it. Consult with the Radiological Protection Coordinator.

OSC Activation

17. If a release is occurring, consult EPIP-12, "Operations Support Center Activation," to determine habitability of the primary OSC.
18. If uninhabitable, direct the OSC Coordinator to relocate staff and equipment/supplies to the alternate OSC (service Building). If this is also uninhabitable, direct the OSC Coordinator to relocate to a protected area (control room/ STSC, TSC or EOF).

EOF Activation

19. Per EPIP-13, "Emergency Operations Facility Activation," brief the Emergency Operations Director and transfer the responsibilities for notifications and protective action recommendations.

Security

20. As necessary, implement EPIP-24, "Security," and order the Security Director to limit access to the station, contact Maricopa County Sheriff's Office for assistance in controlling site access, and arrange access for necessary personnel not on the Emergency Personnel Access List and/or not having access to the protected area via card-key system.
21. Ensure the Security Director is appraised of offsite assistance requests to arrange access.

Corrective Actions

22. Determine needs, consult with staff, authorize reentry per EPIP-25, "Reentry for Emergency Operations."

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

Assessment Actions

23. Ensure that the Radiological Protection Coordinator is obtaining needed data using EPIP-14A, "Release Rate Determination," EPIP-14B, "Initial Dose Assessment," EPIP-16, "Inplant Surveys and Sampling" and EPIP-17, "Onsite/Offsite Surveys and Sampling."

Protective Actions

24. Continue to evaluate the need for providing any additional protective action recommendations.
25. Determine the need for early dismissal/evacuation of non-essentials per EPIP-19, "Onsite Evacuation."
26. Establish evacuation order, offsite reassembly area, evacuation route and inform the Security Director.
27. Order evacuation signal when the Security Director reports that preparations are complete.

Recovery

28. After the EOF is activated, consult with the Emergency Operations Director concerning implementing EPIP-31, "Recovery."

Event Termination or Reduction

29. Contact PVNGS Compliance at Ext. [REDACTED] or beeper no. [REDACTED] or [REDACTED] to provide written summary within 8 hours to offsite authorities. Provide documentation as requested.

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EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

INITIAL RESPONSE

1. Receive notification from the onshift Emergency Coordinator and report to TSC. Upon arrival, sign in on the TSC Staffing Board.
2. Receive a briefing from the onshift Emergency Coordinator and assume responsibilities.
3. Brief TSC staff and evaluate adequacy of TSC activation.
4. Declare the TSC operational and inform the STSC, Control Rooms, OSC, EOF, ANPP Site Construction Office, Bechtel Emergency Control Center and PVNGS Security via site wide P.A. Announcement. This notification may be delegated to the Information Monitor in the TSC.
5. Per EPIP-13, "Emergency Operations Facility Activation," brief the Emergency Operations Director and transfer the responsibilities for notifications and protective action recommendations.
6. Verify personnel resources are on standby in the OSC.

SUBSEQUENT RESPONSE

7. Reevaluate the emergency as conditions change per EPIP-02, "Emergency Classification," reclassify as necessary.
8. As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
 - (1) For a fire, dispatch Fire Team and order the Security Director to contact the Bechtel or alternate offsite fire department for assistance (if required).
 - (2) For personnel injury, contact the First Aid Station and inform them of the situation. Dispatch a First Aid Team, if necessary, and coordinate any required offsite assistance.

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EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

9. Determine the need for offsite support and direct the STSC Communicator to call location(s) in EPIP-33, "Offsite Assistance," arrange access with the Security Director per EPIP-24, "Security," and coordinate with the Administrative and Logistics Coordinator at the EOF.

Personnel Assembly and Accountability

10. Within 30 minutes of the accountability signal, receive a report on accountability in the protected area from the Security Director.
11. Receive a report on site accountability later.
12. Be prepared to implement EPIP-21, "Search and Rescue," by providing necessary data to the OSC Coordinator (via Emergency Maintenance Coordinator).

Emergency Exposures and KI

13. Per EPIP-18, "Emergency Exposure Guidelines," and as necessary, authorize emergency exposures.
14. As necessary, authorize administration of KI per EPIP-26 to emergency workers desiring to use it. Consult with the Radiological Protection Coordinator.

OSC Activation

15. If a release is occurring, consult EPIP-12, "Operations Support Center Activation," to determine habitability of primary OSC.
16. If uninhabitable, direct the OSC Coordinator to relocate staff and equipment/ supplies to the alternate OSC (Service Building). If this is also uninhabitable, direct the OSC Coordinator to relocate to a protected area (Control Room/STSC, TSC or EOF).

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EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

Security

17. As necessary, implement EPIP-24, "Security," and order the Security Director to limit access to the station, contact Maricopa County Sheriff's Office for assistance in controlling site access, and arrange access for necessary personnel not on the Emergency Personnel Access List and/or not having access to the protected area via card-key system.
18. Ensure the Security Director is appraised of offsite assistance requests to arrange access.

Corrective Actions

19. Determine needs, consult with staff, authorize reentry per EPIP-25, "Reentry for Emergency Operations."

Assessment Actions

20. Ensure that the Radiological Protection Coordinator is obtaining needed data using EPIP-14A, "Release Rate Determination," EPIP-14B, "Initial Dose Assessment," EPIP-16, "Inplant Surveys and Sampling" and EPIP-17, "Onsite/Offsite Surveys and Sampling."

Protective Actions

21. Determine the need for early dismissal/evacuation of non-essentials per EPIP-19, "Onsite Evacuation."
22. Establish evacuation order, offsite reassembly area, evacuation route and inform the Security Director.
23. Order evacuation signal when the Security Director report that preparations are complete.

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EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

Recovery

24. Consult with the Emergency Operations Director concerning implementing EPIP-31, "Recovery."

Event Termination or Reduction

25. Contact PVNGS Compliance at Ext. [REDACTED] or beeper No. [REDACTED] or [REDACTED] to provide written summary within 8 hours to offsite authorities. Provide documentation as requested.

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STSC COMMUNICATOR RESPONSE

POSITION FILLED BY: Nuclear Operator from affected unit.

RESPONSIBILITY Initiate the notification process as directed by the onshift Emergency Coordinator. Ensure operability of communications equipment. Maintain communications logbook.

IMMEDIATE ACTIONS

STSC Activation

1. Report to the STSC upon notification.

Notification of ALERT, SITE AREA EMERGENCY, GENERAL EMERGENCY

2. Complete the initial Emergency Message Form as directed by the Onshift Emergency Coordinator or Shift Supervisor.
3. Initiate notification process as directed by the Emergency Coordinator (or Shift Supervisor in his absence).
4. Inform the Emergency Coordinator when initial notifications are complete.
5. Contact the Security Director and inform him to call in additional personnel if so directed by the Emergency Coordinator.
6. Prepare the Follow-up Emergency Message Form as directed by the Emergency Coordinator.
- *7. Provide follow-up information when requested by the State/County agencies.
- *8. Maintain records of communications received or transmitted offsite.

*Continuing Activity

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Notification of ALERT, SITE AREA EMERGENCY,
GENERAL EMERGENCY

Offsite Assistance

9. Contact required offsite assistance (EPIP-33, "Offsite Assistance," Appendix A) via telephone if directed by the Emergency Coordinator.
10. Record name and time on "Telephone Communication Log Sheet" (EPIP-33, Appendix B).
11. Transfer call to Emergency Coordinator for clarification, if necessary.
12. Inform the Emergency Coordinator of contact/lack of contact, scope of offsite assistance and estimated time of arrival.

ACTIVATION OF ONSITE EMERGENCY ORGANIZATION

13. Transfer continuous communications link with the NRC to the NRC Liaison - Operations in the TSC.
14. Review status of notifications and transfer responsibility for notifying State/County agencies and NRC to Government Liaison Engineer in the EOF.
15. Notify the Emergency Coordinator when responsibilities have been transferred to the Government Liaison Engineer.

CONTROLLED DOCUMENT
 EMERGENCY PLAN IMPLEMENTING PROCEDURE TRANSMITTAL
 CONTROLLED DOCUMENT LIST I

EPIP NO. Change List dated 4/8/86, EPIP-11, PCN 02 DATE 04/08/86
R-5, EPIP-16, R-4, EPIP-17, R-3.

V. Elish	6-8
G. Fiorelli	8-1
R. Selman	5-37
Jacek Orlovski	12-22
Compliance	5-17
Leon Brown	5-33
J. G. Sarver	5-102
V. Rhodes	1-1
Thomas P. Hillmer	5-121
T. Exum	5-40
DDC Library	1-2
M. W. Lantz	5-35
Penny Egebrecht	5-91
Harry Bieling	17-9
Gerald Simiele	5-128
J. Cedercuist	5-20
T. Shriver	5-8
T. Barsuk	5-86
D. Best	5-88
R. Johnson	5-42
Sec Cpt	15-1
Doeg Nelson	5-41
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EOF	17-1C
EOF	17-1D
EOF (Room 12)	17-1E
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Martha Roettger	5-114
Harry F. Bieling	17-4
Gary Clyde	12-61
M.L. Clyde	5-79
Mary Richardson	17-10
Dennis Yows	5-36
Bill Knighton	15-2
Russ Papworth	5-7
Bruce Rash	13-18
Dan Phillips	13-16
Kevin Wright	17-11
J. M. Allen	5-31
W. Fernow	5-14
C. Anderson	6-7
Sim Obs Rm	5-89
C. R. Dunaway	5-9
D. Nelson	5-18
M. Whitaker	5-38
J. Tench	5-19
A. Perouthka	6-6
J. R. Bvnum	5-22
B. Simmons	6-10
F. Hicks	6-9

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Darrel Nissen	3-2
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T. Warren	5-21
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B. Rogers/TSC	5-94
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Galon Olson	3-8
Steve Grove	3-4
Greg Roettger	5-112
Maintenance Manager	3-11
TSC E Plan Anal	3-5A
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D. Fasnacht	19-1
Jim St. John	14-47
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FOR NRC	
SYNOPSIS: FL QUINN/4057 W/NRC LETTER ON R/A	
Jack Martin/Adm.	8-8
Document Cont. Desk	8-9A
Document Cont. Desk	8-9B
Gail M. Temple	8-5
Falk Kantor	8-6

PROCEDURE GROUP

Dennis Yows 5-36A thru 5-36I
 Emergency Kits coordinate w/ G. Simiele

CONTROLLED DOCUMENT

PALO VERDE NUCLEAR GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURES

CHANGE LIST

DATE 04/08/86

Procedure Number	Procedure Title	Rev.	Date Effective
EPIP-11 PCN 02 Rev. 05	Technical Support Center/ Satellite TSC Activation	05	04/08/86
EPIP-16 Rev. 04	Inplant Surveys and Sampling	04	04/08/86
EPIP-17 Rev. 03	Onsite/Offsite Surveys and Sampling	03	04/08/86

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PVNGS

8-9A

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PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

PAGE 1 of 1

INTENT CHANGE: NO []
YES []

1. PROCEDURE TITLE Technical Support Center / Satellite TSC Activation

2. PROCEDURE NUMBER EPIP-11 REV. 5 PCN 2

2a. Manager concurrence N/A DATE _____
to exceed 5 PCNs

3. REASON FOR PCN: Phone number for Hissayampa Pump Station changed

4. EXPIRATION: Next revision

5. AFFECTED STEPS:

Appendix C - page 19
Appendix C - page 20

CHANGE REQUIRED:

Delete page 19; Insert Aa
Delete page 20; Insert 20a

6. PREPARED BY:

Harold A. Skowale 4/1/86
SIGNATURE DATE

ENTERED IN PROCEDURE BY:

SIGNATURE DAT

7. TEMPORARY APPROVAL:

N/A
SIGNATURE DATE

SS/Assist. SS DAT

8. DEPT. MANAGER:

[Signature] 4/1/86
SIGNATURE DATE

9. PRB/PEG/TRRG:

[Signature] 4/2/86
SIGNATURE DAT

10. APPROVED BY:

[Signature]
DEPARTMENT MANAGER'S SIGNATURE

[Signature] 4/3/86
SIGNATURE DAT

11. DATE EFFECTIVE:

04-08-86

CONTROLLED DOCUMENT

DDC
COPY FILE

PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

PAGE 1 of 1

INTENT CHANGE: NO
YES

1. PROCEDURE TITLE Technical Support Center / Satellite TSC Activation
2. PROCEDURE NUMBER EPIP-11 REV. 5 PCN 1
- 2a. Manager concurrence N/A to exceed 5 PCNs DATE _____
3. REASON FOR PCN: To clarify the Security Director's response concerning the automatic dialing system
4. EXPIRATION: permanent
5. AFFECTED STEPS: Appendix C, page 1 of 6 - step 4
- CHANGE REQUIRED: Delete page 16a; Insert 16a
6. PREPARED BY: Harold A. Daniels 2/21/86
- SIGNATURE _____ DATE _____
- ENTERED IN PROCEDURE BY: _____
- SIGNATURE _____ DA _____
7. TEMPORARY APPROVAL: N/A
- SIGNATURE _____ DATE _____
8. DEPT. MANAGER: [Signature] 2/21/86
- SIGNATURE _____ DATE _____
9. PRB/BRG/TRRG: [Signature] 3/5/86
- SIGNATURE _____ DA _____
10. APPROVED BY: [Signature] 3/6/86
- DEPARTMENT MANAGER'S SIGNATURE _____ DA _____
11. DATE EFFECTIVE: 3/11/86

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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 1 of 48

DDC
COPY FILE

ASSIGNED COPY

PVNGS # _____

DEPT. HEAD *Henry B. Butler* DATE *12/4/85*
PRB/PRG/TRRG REVIEW *[Signature]* DATE *1/2/86*
APPROVED BY *[Signature]* DATE *1/6/86*
EFFECTIVE DATE *01-05-86*

DN-1664A/0296A

CONTROLLED DOCUMENT

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
<u>3</u>	<u>5/10/85</u>	<u>ALL</u>	<u>Revised to incorporate</u>
_____	_____	_____	<u>PCN #01 of Rev. 2 and to</u>
_____	_____	_____	<u>reflect actual policies and</u>
_____	_____	_____	<u>practices of Emergency</u>
_____	_____	_____	<u>Planning.</u>
<u>4</u>	<u>9/18/85</u>	<u>3,4,5,6,9,10,</u>	<u>Revised to reflect new rev.</u>
_____	_____	<u>15,16,17,19,</u>	<u>of E-Plan and to incorporate</u>
_____	_____	<u>20,22,23,24,</u>	<u>previous drill comments.</u>
_____	_____	<u>25,26,28,30,</u>	_____
_____	_____	<u>39,42</u>	_____
<u>5</u>	<u>9-15-85</u>	_____	<u>Deleted Checklists</u>
_____	_____	_____	_____
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1.0 OBJECTIVE

- 1.1 To provide instructions for the activation and operation of the Technical Support Center (TSC) and the Satellite TSC (STSC).

2.0 REFERENCES

2.1 Implementing References

- 2.1.1 EPIP-03, "NOTIFICATION OF UNUSUAL EVENT Implementing Actions"
- 2.1.2 EPIP-04, "ALERT Implementing Actions"
- 2.1.3 EPIP-05, "SITE AREA EMERGENCY Implementing Actions"
- 2.1.4 EPIP-06, "GENERAL EMERGENCY Implementing Actions"
- 2.1.5 EPIP-14A, "Release Rate Determination"
- 2.1.6 EPIP-14B, "Initial Dose Assessment"
- 2.1.7 EPIP-15, "Protective Action Guidelines"
- 2.1.8 EPIP-16, "Inplant Surveys and Sampling"
- 2.1.9 EPIP-17, "Onsite/Offsite Surveys and Sampling"
- 2.1.10 EPIP-18, "Emergency Exposure Guidelines"
- 2.1.11 EPIP-20, "Personnel Assembly and Accountability"
- 2.1.12 EPIP-21, "Search and Rescue"
- 2.1.13 EPIP-25, "Reentry for Emergency Operations"
- 2.1.14 EPIP-26, "Potassium Iodide (KI) Administration"
- 2.1.15 EPIP-28, "Personnel Monitoring and Decontamination"
- 2.1.16 EPIP-29, "Area/Equipment Monitoring and Decontamination"
- 2.1.17 9N219.05.00, "Document/Record Turnover Control"

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2.2 Developmental References

- 2.2.1 NUREG 0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- 2.2.2 NUREG 0696, Feb. 1981, "Functional Criteria for Emergency Response Facilities"
- 2.2.3 PVNGS Emergency Plan, Rev. 6
- 2.2.4 75AC-9ZZ01, "Radiation Exposure Authorization, Permits and Control," Rev. 2.
- 2.2.5 ANSI N45.2.9-1974, "Requirements For Collection, Storage, and Maintenance of Quality Assurance Records for Nuclear Power Plants"
- 2.2.6 7N409.02.00, "Emergency Preparedness Organization and Staffing," Rev. 0.

3.0 . LIMITATIONS AND PRECAUTIONS

- 3.1 Activation of the TSC should be completed within the augmentation time goals set forth in the PVNGS Emergency Plan.
- 3.2 The Satellite TSC and the TSC may be used by designated personnel for normal daily activities as well as for training and emergency drills. Use of these facilities shall be limited to activities that will not degrade preparedness to react to abnormal conditions or reduce system(s) reliability. This use should be reviewed by the Site Emergency Planning Supervisor.
- 3.3 Each individual in the TSC/STSC upon event termination shall submit any written documentation to the Emergency Coordinator who ensures they are forwarded to Emergency Planning Dept. for storage in accordance with 9N219.05.00, "Document/Record Turnover Control."

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4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

4.1.1 During a NOTIFICATION OF UNUSUAL EVENT, direction and coordination of onshift emergency operations shall be provided by the Emergency Coordinator at the Satellite TSC. During an ALERT or more severe classification, emergency assessment and control shall initially be directed from the Satellite TSC and transferred to the TSC once it has been activated.

4.1.1.1 Prior to activation of the onsite and offsite Emergency Organizations, the following activities take place in the Satellite TSC:

- (1) Environmental assessment (offsite dose projections).
- (2) Field Monitoring Team direction by the Radiation Protection Monitor.
- (3) Technical analysis by the Shift Technical Advisor (STA).
- (4) Emergency management by the Emergency Coordinator (EC).
- (5) Initial notifications including protective action recommendations by the Satellite TSC Communicator.

4.1.2 When the onsite and offsite Emergency Organization has been activated, the responsibility for the above listed functions shall be transferred to the TSC and/or the Emergency Operations Facility (EOF).

4.1.2.1 The Satellite TSC then functions as an extension of the TSC to provide direct technical support to the Control Room personnel in the areas of:

- (1) Engineering and technical analytical support.
- (2) Reactor analytical support.
- (3) Unit operations support.
- (4) Radiological analytical support.

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4.1.3 The functions performed in the TSC are:

- (1) Manage onsite emergency response.
- (2) Direct onsite radiological protection activities.
- (3) Direct emergency maintenance.
- (4) Direct personnel accountability and site security.
- (5) Direct safety and hazards control.
- (6) Perform engineering and technical analysis for Control Room support.
- (7) Perform reactor analysis.
- (8) Provide emergency I&C support.
- (9) Provide computer and chemistry technical support.
- (10) Direct Inplant/Onsite field monitoring activities.

4.1.4 The TSC radiological emergency kit contains a supply of calibrated radiological monitoring equipment, protective clothing, portable lighting, and additional supplies.

4.1.5 Activation of the Satellite TSC shall take place upon declaration of a NOTIFICATION OF UNUSUAL EVENT.

4.1.6 Activation of the TSC and augmentation of the Satellite TSC staff by the onsite Emergency Organization shall take place upon declaration of an ALERT or more severe emergency.

4.2 Prerequisites

4.2.1 A NOTIFICATION OF UNUSUAL EVENT or higher emergency classification has been made.

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4.3 Instructions

4.3.1 Activation of the Satellite TSC

4.3.1.1 The following onshift Emergency Organization personnel shall report to the affected unit Satellite TSC:

- (1) The affected unit Shift Supervisor or Shift Supervisor of the designated unaffected unit (Onshift Emergency Coordinator) - EPIP-03, "Notification Of Unusual Event Implementing Actions," EPIP-04, "Alert Implementary Actions," EPIP-05, "Site Area Emergency Implementing Actions," EPIP-06, "General Emergency Implementing Actions."
- (2) Shift Technical Advisor - Appendix A, "Shift Technical Advisor Response." 5
- (3) Designated Radiation Protection Technician, (Radiation Protection Monitor) - Appendix B, "Radiation Protection Monitor Response."
- (4) Designated Nuclear Operator (STSC Communicator)

4.3.1.2 The following onsite Emergency Organization personnel shall report to the affected unit Satellite TSC (if required) to relieve their respective onshift counterpart.

- (1) Radiation Protection Monitor - Appendix B.

4.3.1.3 The affected Unit Superintendent (or affected Unit Day Shift Supervisor) shall report to the STSC and assume the position of Operations Advisor. He provides technical and operational advice to the Shift Supervisor, and ensure that information flow is maintained between the TSC and the Control Room as per Appendix J, "Operations Advisor (Onsite) Response." 5

4.3.2 Preliminary Activation of the Technical Support Center

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4.3.2.1 The Security Shift Captain shall report to the TSC, assume the duties of Security Director as per Appendix C, "Security Director Response."

4.3.3 Complete Activation of the Technical Support Center

4.3.3.1 All Emergency Organization personnel reporting to the TSC shall retrieve their activation materials from the TSC activation cabinet and establish their assigned work areas as shown in Appendix V.

4.3.3.2 The Technical Engineering Coordinator shall report to the TSC as per Appendix D, "Technical Engineering Coordinator (ONSITE) Response."

4.3.3.3 The Security Director of the onsite Emergency Organization shall report to the TSC and relieve the Security Shift Captain as per Appendix C, "Security Director Response."

4.3.3.4 The following onsite Emergency Organization personnel shall report to the TSC and perform their designated function:

- (1) Emergency Coordinator - EPIP-03, EPIP-04, EPIP-05, and EPIP-06, "Emergency Coordinator Response."
- (2) Technical Engineering Assistant - Appendix E, "Technical Engineering Assistant Response."
- (3) Radiological Protection Coordinator - Appendix F, "Radiological Protection Coordinator (Onsite) Response."
- (4) NRC Liaison - Health Physics - Appendix G, "NRC Liaison - Health Physics Response."
- (5) Emergency Maintenance Coordinator - Appendix H, "Emergency Maintenance Coordinator (Onsite) Response."

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- (6) Hazards Control Coordinator - Appendix I, "Hazards Control Coordinator (Onsite) Response."
- (7) Personnel Resources Coordinator - Appendix K, "Personnel Resources Coordinator (Onsite) Response."
- (8) Chemistry Coordinator - Appendix L, "Chemistry Coordinator (Onsite) Response."
- (9) Reactor Analyst - Appendix M, "Reactor Analyst (Onsite) Response."
- (10) Computer Support Coordinator - Appendix N, "Computer Support Coordinator (Onsite) Response."
- (11) Field Team Communicator - Appendix O, "Field Team Communicator (Onsite) Response."
- (12) Information Monitor - Appendix P, "Information Monitor Response."
- (13) Operations Coordinator - Appendix Q, "Operations Coordinator (Onsite) Response."
- (14) NRC Liaison - Operations - Appendix R, "NRC Liaison - Operations Response."
- (15) Clerical Aide/Status Board Keeper-TSC - Appendix S, "Clerical Aide/Status Board Keeper-TSC Response."

4.3.4 Declaration of TSC Readiness

- 4.3.4.1 The onsite Emergency Coordinator shall assure TSC readiness and notify the onsite emergency response facilities that the TSC is activated.
- 4.3.4.2 Upon activation of the TSC, the onsite Emergency Coordinator shall relieve the onshift Emergency Coordinator of the Emergency Coordinator functions.

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SHIFT TECHNICAL ADVISOR RESPONSE

POSITION FILLED BY: (1) Shift Technical Advisor

RESPONSIBILITY: Advise and assist the Shift Supervisor on assessing plant conditions. Activate and monitor SPDS, develop trend data and provide these data to Control Room personnel.

ACTIONS

1. Report to STSC.
2. Activate the SPDS.
- *3. Monitor the SPDS.
- *4. Develop trend data and provide these data to the Shift Supervisor and other Control Room personnel.
- *5. Advise the Shift Supervisor of corrective actions.

* Continuing Activity

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RADIATION PROTECTION MONITOR RESPONSE

POSITION FILLED BY: (1) Radiation Protection Technician from affected unit

RESPONSIBILITY: Provide initial onsite and offsite dose projections. Initially direct field monitoring teams. Provide technical advice to Emergency Coordinator concerning radiological conditions and protective action recommendations. Monitor radiological assessment activities of onsite Emergency Organization upon being relieved of dose assessment and field monitoring responsibilities by Radiological Protection Coordinator or the Radiological Assessment Coordinator. Provide Control Room with appropriate information.

IMMEDIATE ACTIONS

1. Report to the STSC upon notification
2. Ensure operational status of dose calculation computer.
3. Perform initial offsite dose rate projection per EPIP-14A, "Release Rate Determination," and 14B, "Initial Dose Assessment," if a release has occurred.
4. Inform onshift Emergency Coordinator of dose rate projection results and assist in determining what protective actions are necessary per EPIP-15, "Protective Action Guidelines."
- *5. Direct activities of onsite/offsite Field Monitoring Teams per EPIP-16, "Inplant Surveys and Sampling," and EPIP-17, "Onsite/Offsite Surveys and Sampling."
- *6. Evaluate need to administer Potassium Iodide (KI) per EPIP-26, "Potassium Iodide (KI) Administration."
7. If OSC is activated, contact OSC Coordinator, using the Radiological Assessment Line, to ensure that:
 - (1) Sufficient radiological protection equipment is available to OSC personnel.
 - (2) Continuous habitability surveys (airborne, dose rate, contamination) are being performed in the OSC.

* Continuing Activity

CONTROLLED DOCUMENT

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SUBSEQUENT ACTIONS

Complete the following until relieved of these responsibilities by the Radiological Protection Coordinator at the TSC or the Radiological Assessment Coordinator at the EOF.

Onsite and Offsite Surveys and Sampling

8. Supervise formation, briefing, and dispatch of monitoring teams per EPIP-16 and EPIP-17.
- * 9. Determine/change offsite sampling locations, if necessary.
- *10. Direct that appropriate surveys and sampling be performed.
- *11. Receive reports from monitoring teams every one-half hour via portable radio.

Protective Action Guidelines

- *12. Update and refine dose assessments for critical receptor site locations upon significant changes in:
 - (1) Release rates
 - (2) Duration of releases
 - (3) Isotopic mixture of release
 - (4) Meteorological conditions
- *13. Determine if protective actions are warranted in accordance with EPIP-15 and recommend to Emergency Coordinator.

Search and Rescue

14. Assist OSC Coordinator in determining radiation levels and approximate stay times for teams in affected areas.

* Continuing Activity

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Activation of Onsite Emergency Organization

15. Contact Radiological Protection Coordinator at TSC, using the Radiological Assessment Line or Environmental Assessment Line, to provide the following:
 - (1) OSC radiation protection status
 - (2) Status of onsite/in-plant field monitoring teams
 - (3) Transfer of responsibility for above to
Radiological
Protection Coordinator
16. Transfer control of offsite field monitoring teams, dose projections, protective action recommendations to the Radiological Assessment Coordinator upon activation of the EOF.
- *17. Monitor radiological assessment activities of onsite Emergency Organization and provide Control Room personnel with appropriate information.
- *18. Perform dose rate measurements and air samples in STSC/CR, as required.

* Continuing Activity

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SECURITY DIRECTOR RESPONSE

POSITION FILLED BY:

Security Shift Captain (Onshift)
Manager, Operations Security (Onsite)
Security Shift Captain (Alternate)

RESPONSIBILITY:

Provide for site security, access control, personnel accountability, evacuation and medical transportation. Call out the Emergency Organization upon direction from the Emergency Coordinator.

IMMEDIATE ACTIONS

1. Report to TSC. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. If necessary, assign a Security Shift Sergeant to act as Security Shift Captain. Have him report to the Security Building.
3. Inform Access Point Guards to limit protected area access to only those possessing ACADs.
4. Call in additional personnel appropriate to the emergency classification as directed by Emergency Coordinator (EC) by utilizing automatic dialing system.

NOTE

If the Auto Dialer at PVNGS malfunctions call APS 411 Building Security and request the system be activated at the 411 Building.

5. If the Auto Dialer List One shows no acknowledgement by either the primary, alternate or backup respondent for an Emergency Organization position, inform the Emergency Coordinator of the inability to contact the respondent.

SUBSEQUENT ACTIONS

6. Contact Security Shift Captain by plant phone (ext. [redacted] or [redacted]) and establish security measures for station access by arriving offsite assistance personnel (ALERT or higher).

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SECURITY DIRECTOR RESPONSE

POSITION FILLED BY: Security Shift Captain (Onshift)
 Manager, Operations Security (Onsite)
 Security Shift Captain (Alternate)

RESPONSIBILITY: Provide for site security, access control, personnel accountability, evacuation and medical transportation. Call out the Emergency Organization, ~~upon direction from the Emergency Coordinator.~~

IMMEDIATE ACTIONS

1. Report to TSC. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. If necessary, assign a Security Shift Sergeant to act as Security Shift Captain. Have him report to the Security Building.
3. Inform Access Point Guards to limit protected area access to only those possessing ACADs.
4. ~~Call in~~ ^{Notify} additional personnel, ^{except during day shift hours (i.e., 7:00am - 3:30pm, M-F),} appropriate to the emergency classification ~~as directed by Emergency Coordinator (EC)~~ by utilizing automatic dialing system.

NOTE

If the Auto Dialer at PVNGS malfunctions call APS 411 Building Security and request the system be activated at the 411 Building.

5. If the Auto Dialer List One shows no acknowledgement by either the primary, alternate or backup respondent for an Emergency Organization position, inform the Emergency Coordinator of the inability to contact the respondent.

SUBSEQUENT ACTIONS

6. Contact Security Shift Captain by plant phone (ext.) and establish security measures for station access by arriving offsite assistance personnel (ALERT or higher).

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SECURITY DIRECTOR RESPONSE (Continued)

TSC Access

7. Determine need for additional security personnel and contact as necessary.
8. Remain at TSC and complete following, as necessary, until relieved by Onsite Security Director.
9. Direct a member of the Security Force to be stationed at the TSC Entrance and to limit access to the TSC to only those personnel on the TSC Access List.
10. Grant access to emergency personnel who have been verbally authorized by Emergency Coordinator.

Personnel Assembly and Accountability

11. Contact Security Shift Captain at the Security Headquarters and have him prepare for assembly and accountability per EPIP-20, "Personnel Assembly and Accountability."
12. Inform the Security Access Point guard by normal phone (ext. [redacted]) and the Craft Access Point guard (ext. [redacted]) that assembly and accountability are in progress and to assist existing personnel.
13. Arrange for Construction Security to unlock Visitor's Center, if necessary.
14. Direct the Security Shift Captain to contact the Maricopa County Sheriff's Office by dedicated telephone line or radio to inform them of impending onsite evacuation and to request traffic control north or south of plant on Wintersburg Road.
15. Approximately 20 minutes after the accountability signal has sounded, obtain copies of the computer print-out of personnel who are in the protected area. (If computer or card-key unoperable, see EPIP-20)
16. Receive accountability reports from Security Shift Captain for Assembly Areas in protected area.

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17. Report protected area accountability to Emergency Coordinator within 30 minutes.
18. Receive accountability reports from Security Shift Captain from site assembly area.
19. Direct security to routinely check ANPP controlled buildings to ensure they are not occupied.
20. Report overall accountability outside protected area to EC as soon as practicable.
21. Arrange to pick up Individual Accountability Sheets for each area as soon as practicable.

Search and Rescue

22. Inform EC of missing or disabled personnel and last known location so that search and rescue can begin per EPIP 21, "Search and Rescue."

Onsite Evacuation

23. Obtain information from Emergency Coordinator on assembly area evacuation order, reassembly area and evacuation route.
24. Contact Maricopa County Sheriff's Office by dedicated telephone or radio to request traffic assistance at key evacuation route points and also at the offsite reassembly area.
25. Dispatch a Security vehicle with one Security Force Member as Evacuation Team Leader to Bechtel Gate. No. 1 to prepare to lead the Bechtel manuals to the reassembly area.
26. Contact Construction Security by telephone (ext. [REDACTED]) and request a Security Team to control traffic at the various exit gates.
27. Contact the Bus Transportation Supervisor by telephone (ext. [REDACTED]) to deploy buses to the ANPP/Bechtel Construction Office pickup point, the Nuclear Operations pickup point, and the Water Reclamation Facility pickup point. Have him inform the drivers of the reassembly area and evacuation route.

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SECURITY DIRECTOR RESPONSE (Continued)

28. Dispatch Security Force to bus pickup points and gates to assure the following order of evacuation (unless a different order is specified by the Emergency Coordinator):
- (1) Bechtel parking lots (personal vehicles) via Gate No. 1, 2, and 3
 - (2) ANPP/Bechtel Construction Office buses via Gate No. 3
 - (3) ANPP van pools via Gate No. 1A
 - (4) ANPP parking lots (personal vehicles) via Gate No. 3A
 - (5) ANPP Nuclear Operations buses via Gate No. 3A
 - (6) ANPP Water Reclamation Facility via Gate No. 12
29. Contact the Radiological Protection Coordinator and assure that a monitoring/decontamination team has been dispatched to the reassembly area.
30. Contact the reassembly area by telephone (Palo Verde Inn or Haseyampa Pump Station) and inform them of the impending evacuation.
31. Contact Assembly Area Supervisor at the following locations to inform them of the impending evacuation signal and the location of bus pickups.
- (1) ANPP Construction Office ext.
 - (2) Bechtel Emergency Control Center ext.
- (Have Bechtel inform Bechtel Fire Team and Bechtel Medical Staff to remain at the Bechtel Safety office and not to evacuate.)
- (3) Admin. Annex Bldg. Assembly Area ext.
 - (4) Water Reclamation Facility ext.
 - (5) Visitor's Center ext.

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SECURITY DIRECTOR RESPONSE (Continued)

28. Dispatch Security Force to bus pickup points and gates to assure the following order of evacuation (unless a different order is specified by the Emergency Coordinator):
 - (1) Bechtel parking lots (personal vehicles) via Gate No. 1, 2, and 3
 - (2) ANPP/Bechtel Construction Office buses via Gate No. 3
 - (3) ANPP van pools via Gate No. 1A
 - (4) ANPP parking lots (personal vehicles) via Gate No. 3A
 - (5) ANPP Nuclear Operations buses via Gate No. 3A
 - (6) ANPP Water Reclamation Facility via Gate No. 12

29. Contact the Radiological Protection Coordinator and assure that a monitoring/decontamination team has been dispatched to the reassembly area.

30. Contact the reassembly area by telephone (Palo Verde Inn or Hassayampa Pump Station) and inform them of the impending evacuation.

31. Contact Assembly Area Supervisor at the following locations to inform them of the impending evacuation signal and the location of bus pickups.
 - (1) ANPP Construction Office ext.
 - (2) Bechtel Emergency Control Center ext.

(Have Bechtel inform Bechtel Fire Team and Bechtel Medical Staff to remain at the Bechtel Safety office and not to evacuate.)
 - (3) Admin. Annex Bldg. Assembly Area ext.
 - (4) Water Reclamation Facility ext.
 - (5) Visitor's Center ext.

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SECURITY DIRECTOR RESPONSE (Continued)

- 15
PCW 02
32. Notify the Emergency Coordinator that preparations have been made and the evacuation signal may be given.
 33. Dispatch Security Force to routinely check ANPP trailers and buildings in the Administration area outside the protected area to ensure all non-essential personnel have left the premises.
 34. Request Corporate Site Security by telephone (ext. [REDACTED]) to routinely check the Visitor's Center, construction offices, Bechtel Warehouse and associated areas.
 35. Contact the Evacuation Team Leader by radio or telephone (Palo Verde Inn [REDACTED] Hassayampa Pump Station [REDACTED]) at the offsite reassembly area to determine if any emergency supplies are needed. Report all needs to Administrative and Logistics Coordinator.

Offsite Emergency Vehicle/Personnel Access to PVNGS

36. Obtain following information about emergency vehicles that may be used and inform the Security Shift Captain.
 - (1) Vehicle type
 - (2) License or other identification number
 - (3) Color
 - (4) Number of occupants
37. Dispatch a Security Force Member to accompany all vehicles.
38. Direct Security Access Point by telephone (ext. [REDACTED]) to allow entry to protected area of those ANPP personnel or contractors called to PVNGS who have not been previously authorized normal access.

Fire Fighting

39. Call Bechtel Fire Department, at [REDACTED] upon direction from EC, and inform of type of fire, location and extent of fire, special precautions, and special equipment.

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SECURITY DIRECTOR RESPONSE (Continued)

32. Notify the Emergency Coordinator that preparations have been made and the evacuation signal may be given.
33. Dispatch Security Force to routinely check ANPP trailers and buildings in the Administration area outside the protected area to ensure all non-essential personnel have left the premises.
34. Request Corporate Site Security by telephone (ext. [REDACTED]) to routinely check the Visitor's Center, construction offices, Bechtel Warehouse and associated areas.
35. Contact the Evacuation Team Leader by radio or telephone (Palo Verde Inn, [REDACTED] Hassayampa Pump Station [REDACTED]) at the offsite reassembly area to determine if any emergency supplies are needed. Report all needs to Administrative and Logistics Coordinator.

Offsite Emergency Vehicle/Personnel Access to PVNGS

36. Obtain following information about emergency vehicles that may be used and inform the Security Shift Captain.
 - (1) Vehicle type
 - (2) License or other identification number
 - (3) Color
 - (4) Number of occupants
37. Dispatch a Security Force Member to accompany all vehicles.
38. Direct Security Access Point by telephone (ext. [REDACTED]) to allow entry to protected area of those ANPP personnel or contractors called to PVNGS who have not been previously authorized normal access.

Fire Fighting

39. Call Bechtel Fire Department, at [REDACTED] upon direction from EC, and inform of type of fire, location and extent of fire, special precautions, and special equipment.

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SECURITY DIRECTOR
RESPONSE (Continued)

40. Direct Security to assign personnel to escort Bechtel Fire Team to fire.

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TECHNICAL ENGINEERING COORDINATOR (ONSITE) RESPONSE

POSITION FILLED BY: (1) Manager, OPS Engineering
(2) OPS Engineering Supervisor

RESPONSIBILITY Direct engineering and systems analyses, procedures development and related licensing efforts. Maintain contact with offsite technical support groups.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board.
2. Obtain list of equipment out of commission prior to emergency.
- *3. Maintain list of equipment out of commission during emergency.
- *4. Access records management and obtain needed technical materials throughout emergency.
5. Ensure that the following personnel are responding as per their appropriate appendix:
 - (1) Chemistry Coordinator
 - (2) Reactor Analyst
 - (3) Computer Support Coordinator
 - (4) Technical Engineering Assistant

* Continuing Activity

CONTROLLED DOCUMENT

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- *6. Determine need for additional engineering and technical support personnel, and inform Personnel Resources Coordinator.

SUBSEQUENT ACTIONS

- * 7. Assist Emergency Coordinator as needed to determine corrective actions.
- * 8. Assist Emergency Coordinator as needed during reclassification activities.
- * 9. Provide updated status of reactor and unit to Technical Analysis Coordinator in the EOF using the Technical Line.
- *10. Periodically brief NRC representative on plant status and corrective actions.
- *11. Establish and maintain a communications line using the Operations Ring Down circuits with the Corporate Emergency Center/Engineering Group. (This may be delegated to a Technical Engineering Assistant.)
- *12. Assist in determination of need for offsite technical support.
- *13. Periodically provide Event Status updates to the Status Board Keeper for posting on Status Board.

* Continuing Activity

CONTROLLED DOCUMENT

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TECHNICAL ENGINEERING ASSISTANT RESPONSE

- POSITION FILLED BY:
- (1) Shift Technical Advisors, off-duty
 - (2) Other designated personnel with appropriate training

RESPONSIBILITY

Monitor plant system data via ERFDADS. Maintain liaison with Architect-Engineer concerning technical status and proposed recommendations.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board.
2. Relieve initial briefing from Technical Engineering Coordinator and establish responsible area.
- *3. Monitor plant systems data via ERFDADS.

SUBSEQUENT ACTIONS

- *4. If so directed, establish communications link with the Corporate Emergency Center/Engineering Group using the Operations Ringdown circuits.
- *5. Maintain communication with Architect-Engineer, NSSS Supplier and required vendor personnel through the CEC/Engineering crew concerning plant status and recommendations for corrective action.
- *6. Inform Technical Engineering Coordinator of proposed recommendations and significant change in plant status.
7. Submit logs and status board update sheets to Technical Engineering Coordinator when emergency is cancelled.

* Continuing Activity

CONTROLLED DOCUMENT

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RADIOLOGICAL PROTECTION COORDINATOR (ONSITE) RESPONSE

POSITION FILLED BY: (1) Manager, Radiological Services
(2) Radiological Engineer

RESPONSIBILITY: Relieve Radiation Protection Monitor of dose rate projection and onsite/inplant field monitoring supervision responsibilities. Direct onsite field monitoring activities and inplant radiological controls. Supervise dose rate projections.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Ensure that the following are available:
 - (1) Meteorological overlays and base maps
 - (2) Procedures and forms
3. Ensure operational status of dose calculation computer.
4. Contact Radiation Protection Monitor at STSC using the Radiological Assessment Line or Environmental Assessment Line and determine:
 - (1) Extent of radiological releases and plant conditions
 - (2) Location of onsite and offsite monitoring teams (if dispatched)
 - (3) Status of dose assessments and protective action recommendations (If EOF is not activated.)
5. Determine need for additional personnel to assist in dose assessment.
6. Relieve Radiation Protection Monitor of responsibility for control of:
 - (1) Onsite field monitoring
 - (2) Inplant radiological controls
 - (3) Release rate determination and dose calculations

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX F Page 2 of 6
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7. Inform Emergency Coordinator when TSC is ready to conduct dose assessments.

SUBSEQUENT ACTIONS

Onsite and Inplant Surveys and Sampling

8. Form, brief, and dispatch Monitoring Teams through Emergency Maintenance Coordinator per EPIP-16, "Inplant Survey and Sampling," and EPIP-17, "Onsite/Offsite Survey and Sampling."
9. Direct that appropriate surveys and sampling be performed.
- *10. Receive reports from Inplant/Onsite monitoring teams.
- *11. Receive reports of sample analysis from Radiation Protection Technicians.
- *12. Receive reports on contaminated areas and/or equipment from Radiation Protection Technicians.

Onsite Evacuation

13. Determine the appropriate reassembly area and evacuation route in conjunction with Emergency Coordinator.
14. Dispatch personnel for monitoring at offsite reassembly areas through the Emergency Maintenance Coordinator.
- *15. Provide guidance to the Radiation Monitoring Team at the reassembly area as requested.

* Continuing Activity

CONTROLLED DOCUMENT

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX F Page 3 of 6
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Emergency Exposure Guidelines

- *16. Authorize doses up to the limits of 10CFR20.
17. Provide the Emergency Coordinator with radiological evaluation of situation and conditions requiring emergency exposures in excess of 10CFR20 limits.
18. Complete and sign Radiation Exposure Permit (75RP-9ZZ44, "Radiation Exposure Permits") or designate individual to complete this task.
19. Obtain initial estimates of radiation dose of exposed personnel as quickly as possible.
20. Report exposures in excess of 10CFR20 (refer to EPIP-18, Appendix B) to Emergency Coordinator.
21. Update and refine dose estimates when time permits.

Potassium Iodide (KI) Administration

22. Advise Emergency Coordinator as to when and who may voluntarily receive KI.
23. Obtain bottle(s) of 130mg KI tablets from a Radiological Emergency Kit.
24. Dispense one (1) tablet to each individual designated by Emergency Coordinator to voluntarily use KI (task may be delegated).
- *25. Maintain record of Potassium Iodide Distribution as per EPIP-26, "Potassium Iodide (KI) Administration," Appendix B (task may be delegated).

Search and Rescue

- *26. Assist OSC Coordinator in determining radiation levels and approximate stay times for teams in Radiologically Controlled areas.

* Continuing Activity

CONTROLLED DOCUMENT

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Personnel Injury

The following items should be performed by the Radiological Protection Coordinator, if possible, or by a member of the Radiological Support Staff.

27. Determine, with advice of plant nurse, the order of priorities for:
 - (1) Treatment
 - (2) Evacuation
 - (3) Decontamination
 - (4) Necessity or protective clothing/respiratory protection
 - (5) Other priorities dictated by radiological/hazardous conditions.
28. Request use of onsite emergency vehicle(s).
29. Designate an individual to prepare the station ambulance to transport injured personnel to hospital.
30. Request Security to call offsite ambulance service, if onsite vehicles are unavailable, and to issue dosimetry to ambulance personnel.
31. Designate individual to meet and accompany ambulance to patient's location.
32. Determine emergency route to be used per EPIP-22, "Personnel Injury," Appendix D.
33. Designate one or more individuals qualified in use of G-M survey instruments and radiation control procedures to accompany patient to hospital.

Personnel and Area/Equipment Monitoring and Decontamination

34. Determine need for personnel monitoring and decontamination per EPIP-28, "Personnel Monitoring and Decontamination."

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35. Determine if crucial areas and/or equipment requires monitoring and decontamination in accordance with EPIP-29, "Area/Equipment Monitoring and Decontamination."
36. Complete, date, and sign Radiation Exposure Permit.
37. Stipulate method of decontamination as described in EPIP-29.

Fire Fighting

38. Dispatch, upon notification by Emergency Coordinator, a monitoring team to assist with radiological aspects of fire emergency.
39. Instruct monitoring team to survey all outside fire fighting assistance personnel and supervise decontamination evaluations prior to release from site.

Reentry for Emergency Operations

40. Contact OSC Coordinator using the OSC Dedicated Phone, and provide, in conjunction with Emergency Coordinator and Emergency Maintenance Coordinator, a description of:
 - (1) Work to be performed
 - (2) Number of people work requires
 - (3) Necessary tools, spare parts, and equipment
 - (4) Radiological conditions, if known
41. Provide Emergency Coordinator, if required, with radiological evaluation of situation(s) requiring emergency exposure(s) and complete Radiation Exposure Permit authorizing emergency exposure in accordance with EPIP-18.
42. Complete or designate individual to complete the Radiation Exposure Permit detailing specific protective equipment, allowable doses and ALARA procedures outlined in EPIP-25.
43. Obtain initial estimates of radiation dose of exposed personnel as soon as possible.

CONTROLLED DOCUMENT

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- 44. Receive reports of exposures in excess of 10CFR20 limits and report to Emergency Coordinator.
- 45. Update and refine dose estimates when time permits.

Habitability Surveys of TSC

- *46. Designate Radiation Protection personnel in TSC to perform dose rate measurements and air samples as required.

* Continuing Activity

CONTROLLED DOCUMENT

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NRC LIAISON - HEALTH PHYSICS RESPONSE

POSITION FILLED BY: ALARA Staff Engineer

RESPONSIBILITY: Establish continuous communications with the NRC to provide radiological information until the NRC Emergency Response Team arrives onsite.

IMMEDIATE ACTIONS

1. Report to TSC. Upon arrival, sign in on the TSC Staffing Board and establish responsible area
2. Receive briefing from the Radiological Protection Coordinator on radiological status.
- *3. Establish continuous communications with the NRC using PBX phone.
4. Provide initial radiological conditions to the NRC.

SUBSEQUENT ACTIONS

- *5. Maintain continuous communications with the NRC until the NRC Emergency Response Team arrives onsite.

* Continuing Activity

CONTROLLED DOCUMENT

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EMERGENCY MAINTENANCE COORDINATOR (ONSITE) RESPONSE

POSITION FILLED BY: (1) Manager, Maintenance
(2) Superintendent MCC

RESPONSIBILITY Assume responsibility for plant emergency repair. Coordinate repair and damage control including directing the OSC Coordinator to assemble/dispatch Emergency Repair Teams.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Establish contact with the OSC Coordinator via the dedicated OSC Line.
3. Receive requests for all emergency teams and direct the OSC Coordinator to form these teams.
4. Access records management and obtain needed materials.
5. Determine need for additional maintenance support personnel and inform the Personnel Resources Coordinator.

SUBSEQUENT ACTIONS

Emergency Status

- *6 Provide periodic updates to the OSC Coordinator of the status of the emergency.

Emergency Reentry and Repair

- *7. Assess operation of plant systems including mechanical, electrical, and I&C equipment.
- *8. Advise Emergency Coordinator on matters dealing with repair, maintenance, and deployment of Emergency Repair Teams.

* Continuing Activity

CONTROLLED DOCUMENT

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX H Page 2 of 2
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Reentry for Emergency Operations

- *9. Determine if emergency repair operations are crucial to needs of Emergency Organization and inform Emergency Coordinator.
- *10. Confer with Emergency Coordinator and Radiological Protection Coordinator prior to contacting OSC Coordinator or Repairs Coordinator using Maintenance Control Line with a description of:
 - (1) Work to be performed.
 - (2) Number of personnel required.
 - (3) Tools, spare parts and equipment needed.
 - (4) Radiological conditions, if known.
- *11. Direct OSC Coordinator or Repairs Coordinator using Maintenance Control Line, to assemble and dispatch Emergency Repair Teams, as necessary.

Area/Equipment Monitoring and Decontamination

- 12. Determine if contaminated areas and/or equipment are crucial to needs of Emergency Organization and inform Emergency Coordinator to arrange for decontamination.

* Continuing Activity

CONTROLLED DOCUMENT

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HAZARDS CONTROL COORDINATOR (ONSITE) RESPONSE

POSITION FILLED BY: (1) Health and Safety Administrator
(2) Safety Engineer

RESPONSIBILITY: Advise Emergency Coordinator concerning industrial safety of plant personnel. Evaluate hazards of potential or actual toxic material releases and/or chemical spills.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Determine areas that pose industrial hazards to personnel and inform Emergency Coordinator and OSC Coordinator through the Emergency Maintenance Coordinator.
3. Assist Radiological Protection Coordinator with ALARA considerations.

SUBSEQUENT ACTIONS

Search and Rescue

4. Request the Emergency Maintenance Coordinator to direct the OSC Coordinator to assemble and dispatch Search and Rescue Teams.
5. Complete Search and Rescue information sheet in EPIP-21, "Search and Rescue," Appendix D.
6. Notify Emergency Coordinator of results of search and rescue efforts.

Fire Fighting

7. Provide technical advice to Fire Team Leader during an emergency.

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OPERATIONS ADVISOR (ONSITE) RESPONSE

POSITION FILLED BY: (1) Operations Superintendent of affected unit
(2) Operations Day Shift Supervisor of affected unit

RESPONSIBILITY: Act as management liaison with Control Room. Analyze plant conditions and advise Shift Supervisor and Emergency Coordinator. Ensure information flow between TSC and Control Room. Assist in development of procedures for conducting emergency operations.

IMMEDIATE ACTIONS

1. Report to STSC upon notification.

SUBSEQUENT ACTIONS

STSC Activation/Operation

- *2. Provide technical and operational advice to Shift Supervisor and Emergency Coordinator, as necessary.
- *3. Analyze conditions using SPDS and CRACS and provide guidance to Emergency Coordinator and Operations personnel.
- *4. Establish communications with the Operations Coordinator (Onsite) in the TSC.
- *5. Assist in developing emergency procedures as necessary for conducting emergency operations.

Emergency Classification

- *6. Advise Emergency Coordinator via the Operations Coordinator (Onsite) as to plant status and re-classification of emergency for ALERT, SITE AREA EMERGENCY or GENERAL EMERGENCY.

* Continuing Activity

CONTROLLED DOCUMENT

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PERSONNEL RESOURCES COORDINATOR (ONSITE) RESPONSE

POSITION FILLED BY: (1) Administrative Services Manager
(2) Manager, Office Services

RESPONSIBILITY Relieve Security Director of responsibility for callout of additional emergency personnel. Plan for 24 hour emergency response organization staffing. Assist OSC Coordinator in meeting the manning requirements of OSC. Serve as primary Assembly Area Supervisor in TSC.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Assist Security Director with accountability per EPIP-20, "Personnel Assembly and Accountability."
3. Develop 24-hour manning requirements and augment staffing as required.
4. Assess and assist OSC Coordinator in meeting the manning requirements of the OSC.
5. Assign one Clerical Aide/Status Board Keeper to report to the Technical Engineering Coordinator and maintain the status boards.

SUBSEQUENT ACTIONS

Personnel Assembly and Accountability

6. Assume role of primary Assembly Area Supervisor for TSC.
7. Record names and badge numbers of personnel who have reported to TSC on Individual Accountability Sheet per EPIP-20.
8. Contact Security Shift Captain and inform of personnel and badge numbers accounted for.

CONTROLLED DOCUMENT

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PERSONNEL RESOURCES COORDINATOR (ONSITE) RESPONSE

POSITION FILLED BY: (1) Administrative Services Manager
(2) Manager, Office Services

RESPONSIBILITY Relieve Security Director of responsibility for callout of additional emergency personnel. Plan for 24 hour emergency response organization staffing. Assist OSC Coordinator in meeting the manning requirements of OSC. Serve as primary Assembly Area Supervisor in TSC.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Assist Security Director with accountability per EPIP-20, "Personnel Assembly and Accountability."
3. Develop 24-hour manning requirements and augment staffing as required.
4. Assess and assist OSC Coordinator in meeting the manning requirements of the OSC.
5. Assign one Clerical Aide/Status Board Keeper to report to the Technical Engineering Coordinator and maintain the status boards.

SUBSEQUENT ACTIONS

Personnel Assembly and Accountability

6. Assume role of primary Assembly Area Supervisor for TSC.
7. Record names and badge numbers of personnel who have reported to TSC on Individual Accountability Sheet per EPIP-20.
8. Contact Security Shift Captain and inform of personnel and badge numbers accounted for.

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PERSONNEL RESOURCES COORDINATOR (ONSITE) RESPONSE
(Continued)

Security

- *9. Grant verbal authorization to personnel requesting access to TSC and notify Security Director to grant access.

* Continuing Activity

CONTROLLED DOCUMENT

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CHEMISTRY COORDINATOR (ONSITE) RESPONSE

POSITION FILLED BY: (1) Manager, Chemical Services
(2) Chemist

RESPONSIBILITY: Provide evaluation of coolant samples and air samples to aid in diagnosing reactor core conditions and release potentials. Interpret results of chemical analyses for evaluation of plant systems.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Contact onshift Chemistry Technician using regular phone line and obtain pertinent chemistry plant data.
3. Determine the need for additional chemistry support personnel, and inform the Technical Engineering Coordinator.
4. Confer with Technical Engineering Coordinator to determine needs concerning plant chemistry data.

SUBSEQUENT ACTIONS

- *5. Evaluate coolant samples and air samples and interpret results of chemical analyses and assist Technical Engineering Coordinator, as necessary.

* Continuing Activity

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REACTOR ANALYST (ONSITE) RESPONSE


POSITION FILLED BY: (1) Supervisor, Reactor Engineering
(2) Lead Reactor Engineer

RESPONSIBILITY: Perform detailed analyses of core physics and heat transfer parameters. Assess reactor core status and evaluate the integrity of and fuel cladding.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Assess core parameters.
3. Access records managements and obtain needed technical materials.
4. Determine need for additional reactor support personnel and inform the Technical Engineering Coordinator.
5. Inform Technical Engineering Coordinator of recommendations for operation.

SUBSEQUENT ACTION

- *6. Continue to conduct analyses and assess and evaluate the integrity of plant systems and assist Technical Engineering Coordinator, as necessary.
- *7. Contact Corporate Analytical Support (Deer Valley) as needed by normal phone 

* Continuing Activity

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COMPUTER SUPPORT COORDINATOR (ONSITE) RESPONSE

POSITION FILLED BY: (1) Supervisor, Hardware Maintenance
(2) Computer Engineer

RESPONSIBILITY: Provide continuous support of analyses pertaining to plant conditions and dose assessment.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Access CRACS and SPDS as requested.
3. Determine need for additional computer support personnel and inform the Technical Engineering Coordinator.

SUBSEQUENT ACTIONS

- *4. Provide computer support to TSC staff, when requested.

* Continuing Activity

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FIELD TEAM COMMUNICATOR (ONSITE) RESPONSE

POSITION FILLED BY: (1) Radiation Protection Section Staff Member

RESPONSIBILITY: Maintain direct radio contact with PVNGS Inplant/Onsite Field Monitoring Teams. Assist the Radiological Protection Coordinator with dose rate projections.

IMMEDIATE ACTIONS

1. Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Report to Radiological Protection Coordinator and obtain information on deployment of Inplant/Onsite Monitoring Teams.
3. Ensure that radio communications equipment is operable.
4. Synchronize TSC clocks with affected unit clock.

SUBSEQUENT ACTIONS

- *5. Maintain communications with Inplant/Onsite Monitoring Teams via radio or plant telephone.
- *6. Assist Radiological Protection Coordinator in performance of dose assessment calculations as necessary.

* Continuing Activity

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INFORMATION MONITOR RESPONSE

POSITION FILLED BY: (1) Compliance Supervisor
(2) Compliance Engineer

RESPONSIBILITY: Shall monitor communications between the Emergency Coordinator, Operations Coordinator, and the Operations Advisor and periodically provide emergency status updates to the Onsite Emergency Organization.

IMMEDIATE ACTIONS

1. Report to TSC. Upon arrival, sign in on TSC Staffing Board and establish responsible area.
2. Establish communications link with the Emergency Coordinator, Operations Coordinator and the Operations Advisor.
3. If so directed by the Emergency Coordinator, make a Site Wide P.A. announcement that the TSC is activated using the X800 page.
- *4. Provide periodic emergency status updates via P.A. announcements to the Onsite Emergency Organization (OSC, CR, STSC, etc.).
- *5. Verify accuracy of information posted on TSC Event Status Board.

* Continuing Activity

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OPERATIONS COORDINATOR (ONSITE) RESPONSE

POSITION FILLED BY:

- (1) Operations Superintendent of designated unaffected unit.
- (2) Operations Day Shift Supervisor of designated unaffected unit.

RESPONSIBILITY: Receive technical and operational input from the Operations Advisor and maintain the flow of information between the TSC and Control Room. Report to and assist the Emergency Coordinator.

IMMEDIATE ACTIONS

1. Report to TSC. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Establish communications with the Operations Advisor (Onsite) in the STSC.
- *3. Receive data from the Operations Advisor (Onsite) and report it to the Emergency Coordinator.

* Continuing Activity

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NRC LIAISON - OPERATIONS RESPONSE

POSITION FILLED BY: (1) License Training Instructor

RESPONSIBILITY: Assume responsibility of continuous communications with the NRC from STSC Communicator until the NRC Emergency Response Team arrives onsite.

IMMEDIATE ACTIONS

1. Report to TSC. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.
2. Receive briefing from Operations Coordinator on plant status.
3. Contact STSC Communicator and receive NRC communications status.
4. Assume continuous communications with NRC from STSC Communicator using the ENS phone.

SUBSEQUENT ACTION

5. Maintain continuous communications with NRC until NRC Response Team arrives onsite.

CONTROLLED DOCUMENT

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CLERICAL AIDE/STATUS BOARD KEEPER-TSC RESPONSE

POSITION FILLED BY: (1) Designated person(s)
with appropriate
training.

RESPONSIBILITY: Maintain record of emergency actions
taken by ANPP Emergency Organization on
status board. Record status of
emergency.

IMMEDIATE ACTIONS:

1. Report to TSC upon notification. Upon arrival, sign in
on the TSC Staffing Board.
2. Receive briefing from Personnel Resources Coordinator
and establish responsible area.
3. Report readiness to Personnel Resources Coordinator.
4. Receive assignment to maintain status boards. Receive
status from Technical Engineering Coordinator

SUBSEQUENT ACTIONS:

Status Boards

NOTE

Ensure time recorded on status boards is event
time rather than posting time.

- *5. Record status of emergency as expressed by Technical
Engineering Coordinator.

Recovery

6. Submit check list to Personnel Resources Coordinator
upon cancellation of emergency.

* Continuing Activity

CONTROLLED DOCUMENT

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CLERICAL AIDE/STATUS BOARD KEEPER - TSC

EVENT STATUS BOARD

EVENT STATUS

UNIT: _____ EMERGENCY CLASS: _____ TIME: _____

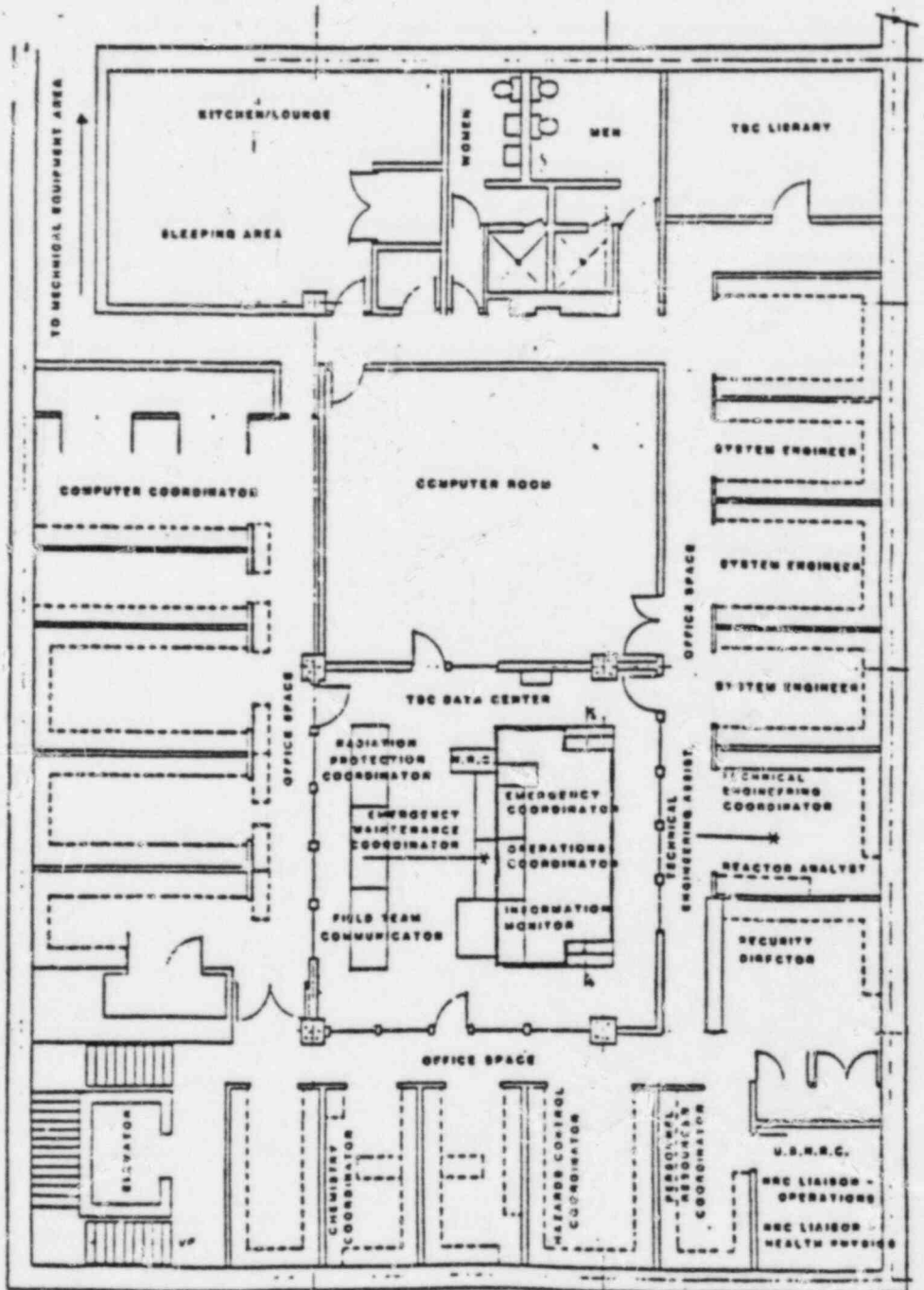
Time: _____ Date: _____ Rx Coolant System Avg. Temp. Th _____ °F Tc _____ °F Ppr. Pressure _____ PSIA Ppr. Level _____ % Rx Vessel Level _____ % Subcool Margin _____ °F Boron _____ ppm	Time: _____ Date: _____ Containment Pressure _____ PSIG Temperature _____ °F Humidity _____ % Radiation Level _____ R/hr. Where _____ Activity _____ uCi/cc Recirc. Pump Level _____ ft Isolation Status _____ Cont. Spray _____ A _____ B	Time: _____ Date: _____ Met. Data Wind Speed _____ mph Wind Direction (from) _____ °true Stability Class _____ Precipitation _____ in / 24hrs Forecast _____
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Inoperable Equipment <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%;">Time</th> <th style="width: 20%;">Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Time	Date																			Time: _____ Date: _____ Make-up Total SI Flow _____ GPM RWT Level _____ % Pumps Available: LPSI _____ A _____ B HPSI _____ A _____ B Charging _____ A _____ B _____ E	Time: _____ Date: _____ Heat Removal Reactor Coolant Pumps _____ 1A 1B 2A 2B S/D Cooling Train _____ A _____ B Steam Generator Level, %WR _____ 1 _____ 2 Aux. Feed Water to SG, GPM _____ 1 _____ 2 Aux. Feed Water Pumps Running _____ A _____ B _____ N Condensate Storage Tank Level _____
	Time	Date																					

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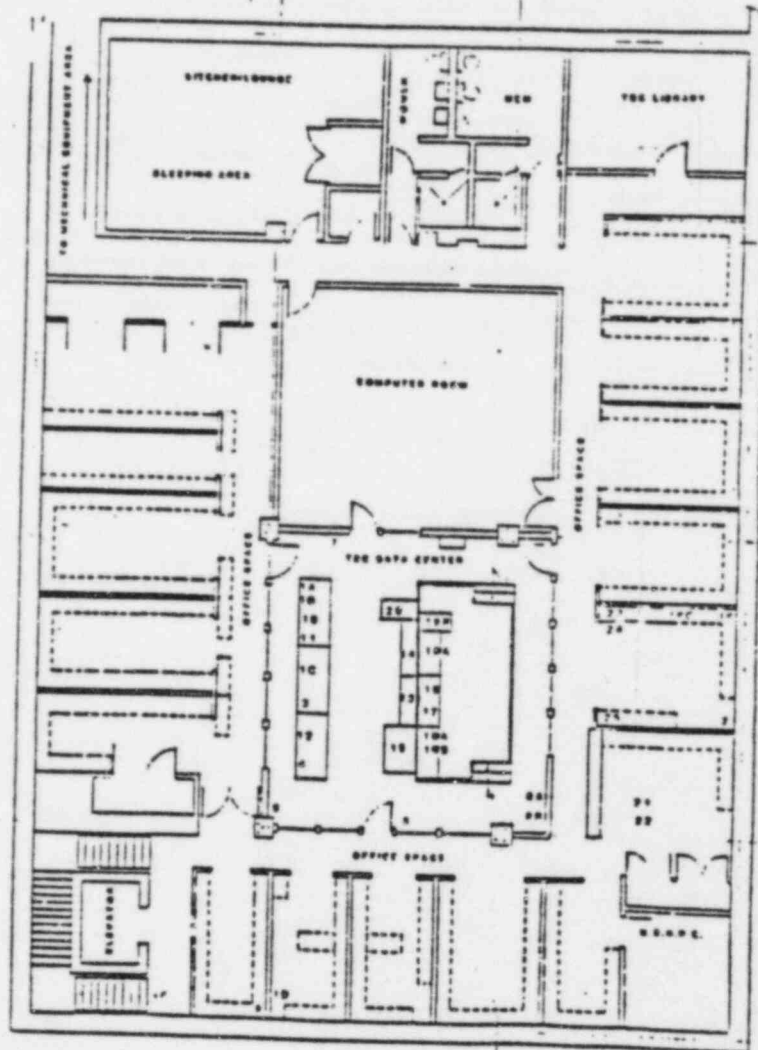
FLOORPLAN - TECHNICAL SUPPORT CENTER (TSC)
PALO VERDE NUCLEAR GENERATING STATION (PVNGS)



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TSC EQUIPMENT LAYOUT



- | | | |
|--------------------------------|-------------------------------|-----------------|
| 1 A-E - ERFDADS Terminals | 11 - Radiological Assmt. Line | 21 - High Speed |
| 2 - ERFDADS Printers | 12 - Weather Alert Radio | Telecopier |
| 3 - IBM Computer | 13 - Maintenance Control | 22 - Dedicated |
| 4 - ANPP Radio | - Line | Telecopier |
| 5 - REMS Terminal | 14 - OSC Line | 23 - NAN |
| 6 - REMS Terminal | 15 - Map Table | 24 - OPS Voice |
| 7 - TSC Emergency Kit | 16 A-C - Technical Line | Lines 1-4 |
| 8 A-B - TSC Activation Cabinet | 17 - Control Room Line | 25 - EOF Line |
| 9 - Auto Dialer Terminal | 18 - STSC Line | |
| 10 - Environmental Assmt. Line | 19 A,B - EC/EOD Line | |
| | 20 - ENS Phone | |

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DEPT. HEAD *[Signature]* DATE 3/15/86
PRB/PRG/TRRG REVIEW *[Signature]* DATE 4/7/86
APPROVED BY *[Signature]* DATE 4/3/86
EFFECTIVE DATE 04-08-86
DN-1629A/0190A

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
<u>3</u>	<u>05-10-85</u>	<u>4, 5, 6, 7,</u>	<u>Revised to update references</u>
		<u>8, 9, 10, 11,</u>	<u>and to correctly reflect</u>
		<u>14, 15, 16</u>	<u>current method for surveys</u>
			<u>and sampling</u>
<u>4</u>	<u>4/4/82</u>	<u>All</u>	<u>Deleted TIME/INITIALS column</u>
			<u>in Appendix D. Deleted</u>
			<u>Appendices A, B and C.</u>

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1.0 OBJECTIVE

- 1.1 To provide for emergency inplant radiological monitoring and surveys in the event of a release of radionuclides.

2.0 REFERENCES

2.1 Implementing References

- 2.1.1 EPIP-17, "Onsite/Offsite Surveys and Sampling"
- 2.1.2 EPIP-18, "Emergency Exposure Guidelines"
- 2.1.3 EPIP-28, "Personnel Monitoring and Decontamination"
- 2.1.4 EPIP-29, "Area/Equipment Monitoring and Decontamination"
- 2.1.5 9N219.05.00, "Document/Record Turnover Control"

2.2 Developmental References

- 2.2.1 NUREG-0654, Rev. 1 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- 2.2.2 NUREG-0737, "Clarification of TMI Action Plan Requirements," Oct. 1980
- 2.2.3 75RP-9ZZ46, "Radiological Surveys," Rev. 3.
- 2.2.4 75RP-9ZZ48, "Airborne Radioactivity Sampling and Measurement," Rev. 3
- 2.2.5 75AC-9ZZ01, "Radiation Exposure Authorization, Permits and Control," Rev. 2.
- 2.2.6 F & J Specialty Products, Inc. "Radioiodine Absorption Cartridge Documentation and Technical Performance Specifications for NRC Audits of Radioiodine Sampling Procedures," 1984.
- 2.2.7 ANSI N45.2.9, "Requirements for Collection, Storage and Maintenance of Quality Assurance Records for Nuclear Power Plants," 1974.
- 2.2.8 PVNGS Emergency Plan, Rev. 6

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3.0 LIMITATIONS AND PRECAUTIONS

- 3.1 The Radiological Protection Coordinator (RPC) may authorize exposures in excess of PVNGS Administrative Radiation Exposure Limits up to the limits of 10 CFR 20. Exposures in excess of 10 CFR 20 limits up to Emergency Exposure Limits of EPIP-18, "Emergency Exposure Guidelines," shall be authorized by the Emergency Coordinator. Exposures in excess of Emergency Exposure Limits shall not be authorized.
- 3.2 The Radiation Protection Monitor (RPM) or RPC should check applicable dose rates via RMS or the ERFDADS monitor prior to RP access into an area.
- 3.3 Perform instrumentation peroperational checks and prestage required sampling equipment prior to performing surveys.
- 3.4 Access the controlled area using the Emergency Radiation Exposure Permit, number 9999, if required.

NOTE

When entering areas of unknown radiological conditions, be sure survey meter is switched to the highest scale.

- 3.5 While in route to the survey location, keep the survey meter turned on and continuously monitor dose rates.
- 3.6 Under the following conditions inplant monitoring personnel should withdraw from the area immediately and relay this information to the RPM/RPC.
 - 3.6.1 If the unanticipated area dose rate is equal to or greater than 10 R/hr, or levels are significantly greater than expected.

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NOTE

The following conditions may indicate airborne radioactivity: a continuous air monitor in a valid alarm condition or observation of steam.

- 3.6.2 If airborne activity is suspected at the survey location and the field monitoring team is not wearing respirators, control access and leave the area.
- 3.6.3 If any member of the field monitoring team exceeds their assigned dose limit.

4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

- 4.1.1 The Radiation Protection Monitor, until relieved by the Radiological Protection Coordinator, is responsible for the implementation of this procedure.
- 4.1.2 Technicians involved in surveying and sampling should be familiar with operation of the air samplers, cartridges, filters, and survey instruments. Monitoring Team members should be familiar with 75RP-9ZZ48, "Airborne Radioactivity Sampling and Measurement," and 75RP-9ZZ46, "Radiological Surveys."
- 4.1.3 Members of Monitoring Teams should proceed to the Operations Support Center for instructions.
- 4.1.4 The Operations Support Center Coordinator shall supervise the formation of Inplant Monitoring Teams.
- 4.1.5 The Emergency Maintenance Coordinator, in conjunction with the RPM/RPC, shall direct the briefing and dispatching of Inplant Monitoring Teams.
- 4.1.6 The Unit Radiation Protection Supervisor shall provide technical support for the inplant survey teams in coordination with the RPC.
- 4.1.7 The Inplant Monitoring Team Leader should communicate with the RPC at least every 30 minutes via phone and/or portable radio (channel #4).

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4.2 Prerequisites

- 4.2.1 An ALERT or more severe emergency has been classified per EPIP-02, "Emergency Classification."
- 4.2.2 Don protective clothing and respiratory apparatus if necessary.
- 4.2.3 Obtain emergency equipment from the OSC emergency kit.
- 4.2.4 Perform instrumentation preoperational checks and prestage required sampling equipment prior to performing surveys.

4.3 Instructions

4.3.1 General Instructions

- 4.3.1.1 The inplant teams shall be briefed on area(s) to be monitored, specific surveys to be performed and any special instructions needed by the RPM/RPC.
- 4.3.1.2 Airborne radioactivity (radioiodine, particulates, and noble gases) should be sampled or measured as directed by the Radiation Protection Monitor or Radiological Protection Coordinator.
- 4.3.1.3 The Inplant Monitoring Team Leader shall respond as per Appendix A - "Inplant Monitoring Team Response."
- 4.3.1.4 Survey meters should be left on while in transit. All unposted or unexpected inplant readings and all readings above 1 R/hr shall be reported to the Radiation Protection Monitor or the Radiological Protection Coordinator.

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4.3.1.5 Areas to be surveyed shall be determined by the Radiation Protection Monitor or the Radiological Protection Coordinator. Determination of areas to be surveyed should depend on the type of accident, area radiation monitor readings and previous survey data. The major accident categories are listed below with suggested survey areas.

<u>Accident Type</u>	<u>Suggested Survey Area</u>
LOCA	All areas around containment Areas around operating ESF equipment during recirculation phase
SGTR	Main Steam Lines, Turbine, and Condenser
WGDTR	Area around WGDT including entire radwaste building
FHA	Fuel handling area

4.3.2 Radiation and Contamination Surveys.

NOTE

Ensure you are adequately briefed on expected conditions at survey location prior to departing.

- 4.3.2.1 While in route to the survey location, keep the survey meter on and continuously monitor dose rates.
- 4.3.2.2 Upon arrival at the survey location perform required radiation and contamination surveys. Record survey results as per 75RP-9ZZ46, "Radiological Surveys" and report findings to the RPM/RPC.

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4.3.2.3 Maintain communications with the RPM/RPC and report radiation readings when they change significantly.

4.3.2.4 If the dose rate exceeds expected levels or if exposure of any member of the team exceeds their assigned limit, the entire team shall retreat to a low level radiation background area, notify the RPM/RPC and await further instructions.

4.3.3 Particulate and Radioiodine Air Samples

NOTE

Particulate and radioiodine air samples should be collected and documented in accordance with 75RP-9ZZ48, "Airborne Radioactivity Sampling and Measurement," except as noted below.

4.3.3.1 Air sample volumes should be 10 ft³ or as directed by the RPM/RPC.

4.3.3.2 The maximum flow rate should not exceed 2 CFM to ensure adequate collection efficiency for silver zeolite cartridges.

4.3.3.3 Determine the sampling time necessary to collect a sample volume of 10ft³ and collect sample.

NOTE

If the air sampling cartridge binds in the air sampler head, allow several minutes for the a/s head to cool, rather than forcing the cartridge.

4.3.3.4 Disassemble the sample head. Place the particulate filter in a plastic bag and label the bag with the date, time, location, sample volume and name of person taking sample.

4.3.3.5 Place the silver zeolite cartridge in a plastic bag and label as above.

4.3.3.6 Deliver the air sample to the count room for analysis or to an alternate location as directed by the RPM/RPC.

4.3.3.7 Save all samples for recount or dispose of as radioactive material as directed by the RPM/RPC.

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4.3.4 Noble Gas Air Samples

- 4.3.4.1 Insert AgX cartridge into AgX holder. AgX cartridges for noble gas samples may be used repeatedly during a one day period.
- 4.3.4.2 Place filter paper upstream of the AgX cartridge in the holder.
- 4.3.4.3 Attach holder to one side of the gas collection chamber (marinelli beaker).
- 4.3.4.4 Attach tygon tubing to the other petcock of gas collection chamber and to the air sample pump.

NOTE

It may be possible to collect the noble gas air sample at the same time as the particulate/iodine sample. Be sure that the sample flow rate does not exceed 2 CFM.

- 4.3.4.5 With both petcocks open, draw a minimum of 5 volume changes or if NG/P/I samples are collected at the same time select an appropriate sampling period.
 - 4.3.4.6 Close both petcocks on the gas collection chamber.
 - 4.3.4.7 Deliver the sample to the Radiation Protection Count Room or to an alternate location for analysis as directed by the RPM/RPC.
- ## 4.3.5 Exiting Controlled Area
- 4.3.5.1 Notify the RPM/RPC that the survey is complete and of your intention to return to the OSC.
 - 4.3.5.2 Proceed to the nearest low background area and perform a whole body frisk.
 - 4.3.5.3 If contaminated, notify the RPM/RPC and proceed with decontamination procedures as per EPIP-28, "Personnel Monitoring and Decontamination."
 - 4.3.5.4 Ensure that all survey equipment is surveyed and released if possible.

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- 4.3.5.5 Notify the RPM/RPC of any survey equipment, etc. that is contaminated and/or damaged and needs to be replaced.
- 4.3.5.6 Transmit results to the RPM/RPC and records shall be retained per 9N219.05.00, "Document/Record Turnover Control."
- 4.3.5.7 Report to the RPM/RPC for debriefing.

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INPLANT MONITORING TEAM RESPONSE

POSITION FILLED BY: Radiation Protection Technician

RESPONSIBILITY: Perform inplant radiation monitoring.

IMMEDIATE ACTIONS

1. Report to OSC upon notification.
2. Obtain briefing from supervisory individual:
 - (a) Radiation Protection Monitor (Onshift) or
 - (b) Radiological Protection Coordinator (Onsite).
3. Obtain the following equipment as required:
 - (1) Legal TLD, job TLD (alarming dosimeter optional)
 - (2) Emergency equipment as required from the OSC emergency kit.
4. Check batteries and perform source check tests on survey instruments.
5. Check batteries in portable radio.
6. Obtain appropriate survey maps and forms from the OSC Emergency Kit or the RP Office.

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INPLANT MONITORING TEAM RESPONSE

7. Conduct surveys and sampling for:
 - a. Dose rate measurements
 - b. Particulate, radioiodine and noble gas air samples
 - c. Contamination levels
8. Save all samples for recount or dispose of sampling media as radioactive waste as directed by the RPM/RPC.

SUBSEQUENT ACTIONS

Reporting

9. Communicate with the Radiation Protection Monitor (onshift) or the Radiological Protection Coordinator at least every one half hour via phone or portable radio.

Documentation

10. Complete all utilized survey maps and retain for DDC.

Decontamination

11. Be checked for contamination.
12. Decontaminate self as required, per EPIP-28, "Personnel Monitoring and Decontamination."

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
<u>3</u>	<u>04.20.86</u>	<u>All</u>	<u>Deleted Checklist; Deleted gross radioactivity sample sheet and air sample sheet.</u>
_____	_____	_____	_____
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Appendix B - Onsite Survey Map	14
Appendix C - Field Monitoring Team Response	15

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1.0 OBJECTIVES

- 1.1 To provide for emergency onsite/offsite radiological monitoring and field surveys to be undertaken in the event of an airborne release of radioactive gases and particulates.

2.0 REFERENCES

2.1 Implementing References

- 2.1.1 EPIP-02, "Emergency Classification"
- 2.1.2 EPIP-14B, "Initial Dose Assessment"
- 2.1.3 75RP-9ZZ50 "Operation Calibration and Performance Testing of Laboratory Scaler Counting Systems"
- 2.1.4 EPIP-28, "Personnel Monitoring and Decontamination"
- 2.1.5 EPIP-29, "Area/Equipment Monitoring and Decontamination"
- 2.1.6 EPIP-38, "Emergency Equipment and Supplies Inventory"
- 2.1.7 9N219.05.00, "Document/Record Turnover Control"
- 2.1.8 ANSI N45.2.9, "Requirements for Collection, Storage and Maintenance of Quality Assurance Records for Nuclear Power Plants, 1974"

2.2 Developmental References

- 2.2.1 NUREG-0654, Rev. 1 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."
- 2.2.2 75 RP-9ZZ46, "Radiological Surveys," Rev. 3.
- 2.2.3 75 RP-9ZZ48, "Airborne Radioactivity Sampling and Measurement," Rev. 3.
- 2.2.4 Emergency Plan, Rev. 6.

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- 2.2.5 73AC-9ZZ22, "Onsite Radio Communications," Rev. 0.
- 2.2.6 F&J Specialty Products, Inc., "Radioiodine Absorption Cartridge Documentation and Technical Performance Specifications for NRC Audits of Radioiodine Sampling Procedure", 1984.

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3.0 LIMITATIONS AND PRECAUTIONS

- 3.1 Use appropriate protective clothing, equipment and respirators.
- 3.2 Ensure that proper dosimetry is worn.
- 3.3 Control access and egress from contaminated areas.
- 3.4 Methods of communication between field monitoring teams and onsite facilities consists of hand-held radios, and/or radio equipped vehicles.
- 3.5 Obtain keys to the Radiological Emergency Response Vehicle (RERV) and other RP Response Vehicles from the key cabinet in the RP Office or the Security Office. Check that there is an adequate fuel level in the vehicle.
- 3.6 If required, obtain keys to Meteorological Tower and Gate from the key cabinet in the RP Office or the Security Office.
- 3.7 The RERV should be used as a mobile counting lab and the other RP vehicles should be used to track the plume.
- 3.8 Changes in radioactive release conditions may cause the radiation protection requirements to be changed.
- 3.9 Definitions and Abbreviations
 - 3.9.1 RERV - Radiological Emergency Response Vehicle
 - 3.9.2 RFAT - Radiological Field Assessment Team
 - 3.9.3 RPC - Radiological Protection Coordinator
 - 3.9.4 RAC - Radiological Assessment Coordinator
 - 3.9.5 RACom. - Radiological Assessment Communicator
 - 3.9.6 STSC - Satellite Technical Support Center
 - 3.9.7 OSC - Operations Support Center
 - 3.9.8 TSC - Technical Support Center
 - 3.9.10 EOF - Emergency Operations Facility

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4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

- 4.1.1 The Radiation Protection Monitor (RPM), until relieved by the Radiological Assessment Coordinator (RAC), is responsible for implementation of this procedure.
- 4.1.2 Technicians involved in surveying and sampling should be familiar with operation of the air samplers, cartridges and filters, noble gas chambers, and survey instruments. Field Monitoring team members should be familiar with 75RP-9ZZ48, "Airborne Radioactivity Sampling and Measurement," and 75RP-9ZZ46, "Radiological Surveys."
- 4.1.3 Members of field monitoring teams should proceed to the Operations Support Center for instructions.
- 4.1.4 The OSC Coordinator shall supervise the formation of Field Monitoring Teams.
- 4.1.5 The Radiological Assessment Coordinator, through the RPM and the Emergency Maintenance Coordinator, shall direct the briefing and dispatching of Field Monitoring Teams.
 - 4.1.5.1 The Field Monitoring Team Leader should communicate with the Radiological Assessment Communicator at least every one half hour via portable radio using channel #4; for the RERV, use radio channel #1.

4.2 Prerequisites

- 4.2.1 An ALERT or more severe emergency has been classified per the provisions of EPIP-02, "Emergency Classification."
- 4.2.2 Don protective clothing and respiratory apparatus if necessary.
- 4.2.3 Obtain appropriate sampling equipment.
 - 4.2.3.1 The offsite monitoring teams should obtain the Offsite Survey Team Kits from the RERV.
 - 4.2.3.2 Onsite monitoring teams should obtain necessary equipment from the OSC Emergency Kit Locker.

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4.2.4 Offsite RFAT members should assemble at the RERV to perform instrument and radio checks prior to being dispatched.

4.3 Instructions

4.3.1 General Information

4.3.1.1 The offsite sampling locations shall be determined by the RPM/RAC based on wind direction and a plume width of 3 sigma Y. The Field Monitoring Team Leader shall respond as per Appendix D, "Field Monitoring Team Response."

4.3.1.2 For plant perimeter surveys, the RPM/RAC shall determine which quadrant should be sampled. Labeled TLDs attached at various points along the protected area fence represent the center of each survey sector and may be used as location reference points (Appendix B.)

4.3.1.3 Air (radioiodine, particulates, and noble gases) samples and radiation measurements should be taken at each sampling location as determined by the RPM/RAC.

4.3.1.4 Survey meters should be left on while in transit. All offsite readings above 0.2 mR/hr should be reported along with plume centerline and boundary locations if determinable.

4.3.1.5 All samples should be counted at locations determined by the RPM/RAC.

4.3.2 Gross Radioactivity Measurement (Appendix A).

4.3.2.1 Determine the dose rate at 3 feet with the beta shield open and closed. Record these values in Appendix A.

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4.3.2.2 Determine the dose rate at 3 inches above ground level (i.e., repeat step 4.3.2.1 with the meter at three inches).

4.3.3 Particulate and Radioiodine Air Samples

NOTE

Particulate and radioiodine air samples should be collected and documented in accordance with 75RP-9ZZ48, "Airborne Radioactivity Sampling and Measurement," except as noted below.

4.3.3.1 Air sample volumes should be 10 ft³ or as directed.

4.3.3.2 Connect the air sampler to an appropriate power source.

NOTE

If the air sampler being used has a timer, be sure to select an appropriate time prior to starting the sampler.

4.3.3.3 Start the sampler in the variable position if a variable rate air sampler is available.

4.3.3.4 The maximum flow rate should not exceed 2 CFM to ensure adequate collection efficiency for silver zeolite cartridges.

4.3.3.5 Determine the sampling time necessary to collect a sample volume of 10ft³ and collect sample.

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NOTE

If the air sampling cartridge binds in the air sampler, allow several minutes for the A/S head to cool, rather than forcing the cartridge.

- 4.3.3.6 Disassemble the sample head. Place the particulate filter in a plastic bag and label the bag with the date, time, location, sample volume and name of person taking sample.
- 4.3.3.7 Place the silver zeolite cartridge in a plastic bag and label as above.
- 4.3.3.8 Transport the sample to the designated counting location for analysis.
- 4.3.3.9 At the direction of the RAC, samples may be recounted in the unit chemistry lab or disposed of as radioactive material.
- 4.3.4 Noble Gas Air Samples
 - 4.3.4.1 Insert AgX cartridge into AgX holder. AgX cartridges for noble gas samples may be used repeatedly during a one day period.
 - 4.3.4.2 Place filter paper upstream of the AgX cartridge in the holder.
 - 4.3.4.3 Attach holder to one side of the gas collection chamber (marinelli beaker).
 - 4.3.4.4 Attach tygon tubing to the other petcock of gas collection chamber and to the air sample pump.

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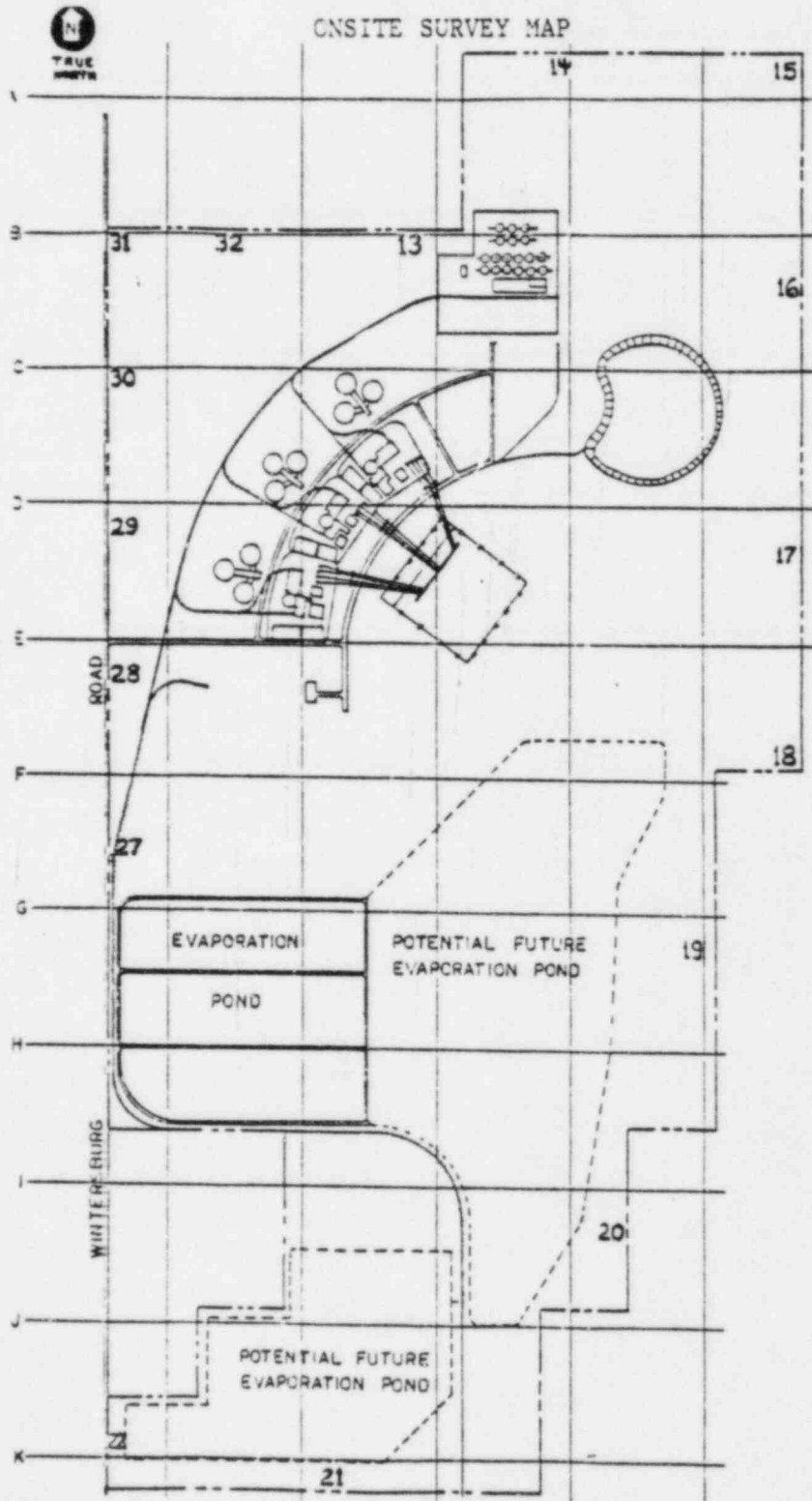
NOTE

It may be possible to collect the noble gas air sample at the same time as the particulate/iodine sample. Be sure the sample flow rate does not exceed 2 CFM.

- 4.3.4.5 With both petcocks open, draw a minimum of 5 volume changes or if NG/P/I samples are collected at the same time select an appropriate sampling period.
- 4.3.4.6 Close both petcocks on the gas collection chamber.
- 4.3.4.7 Place the gas collection chamber in a plastic bag. Label the bag with the sample location, date, time and name of person taking sample.
- 4.3.4.8 Save the noble gas sample for analysis in the unit count rooms or as directed by the RAC.
- 4.3.5 Additional sampling media (soil, water, vegetation, etc.) may be collected under the direction of the Environmental Monitoring Group as part of the recovery effort following an accident.
- 4.3.6 Report to the RAC for debriefing upon completion of assigned surveys.

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FIELD MONITORING TEAM RESPONSE

POSITION FILLED BY: Radiation Protection Technicians
Maintenance Technicians (as drivers)

RESPONSIBILITY: Perform onsite/offsite radiation monitoring.

IMMEDIATE ACTIONS

1. Obtain briefing from Supervisory Individual:
 - (a) Radiation Protection Monitor (Onshift) or
 - (b) Radiological Assessment Coordinator (Onsite).
2. Obtain keys for the Radiological Emergency Response Vehicle and other RP Response vehicles from the key cabinet in the RP office or the Security Office and check that the vehicle has an adequate fuel supply.
3. Obtain keys to Meteorological Tower and Gate (as required) from the key cabinet in the RP Office or the Security Office.
4. Obtain the following equipment from the RERV as required:
 - (1) Map of onsite TLD locations
 - (2) Map of offsite TLD locations
 - (3) Offsite Survey Team Kit
5. Perform instrumentation preoperational checks and prestage required sampling equipment prior to departing from the RERV assembly point.
6. Conduct surveys and sampling, as required, per EPIP-17 for:
 - (1) Dose Rate Measurements.

CONTROLLED DOCUMENT

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FIELD MONITORING TEAM RESPONSE

- (2) Particulate and radioiodine air samples
 - (3) Noble gas air samples
9. Save all samples for recount or dispose of sampling media as radioactive waste as directed by the RAC.

SUBSEQUENT ACTIONS

Reporting

10. Communicate with the Radiation Protection Monitor (onshift) or the Radiological Assessment Communicator (onsite) at least every one half hour via portable radio.

Documentation

11. Complete Appendix A and all utilized survey maps and retain for DDC.



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TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

RECORD OF CHANGES AND REVISIONS

PAGE	REVISION	PAGE	REVISION	PAGE	REVISION
All	1				
All	2				

FOR INFORMATION ONLY

Approved By:

[Handwritten Signature]
Signature

Effective Date:

3/5/86
Date

4/24/86



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TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

1.0 PURPOSE AND SCOPE

This Procedure specifies personnel by title designated to perform roles in the Emergency Organization and sets forth the authority and responsibility of each Emergency Organization position.

2.0 DEFINITIONS AND ABBREVIATIONS

- 2.1 ANPP - Arizona Nuclear Power Project
- 2.2 APS - Arizona Public Service (Company)
- 2.3 CEC - Corporate Emergency Center
- 2.4 CED - Corporate Emergency Director
- 2.5 CHIC - Corporate Headquarters Information Center
- 2.6 CR - Control Room
- 2.7 EOC - Emergency Operations Center
- 2.8 EOD - Emergency Operations Director
- 2.9 EOF - Emergency Operations Facility
- 2.10 EPIP - Emergency Plan Implementing Procedure
- 2.11 FEMA - Federal Emergency Management Agency
- 2.12 ISEG - Independent Safety Engineering Group
- 2.13 JENC - Joint Emergency News Center
- 2.14 KI - Potassium Iodide
- 2.15 NRC - Nuclear Regulatory Commission
- 2.16 OS - OPS/Support



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

3.1.1.2* Notifies:

- a. Company emergency response personnel
- b. Local noncompany emergency support groups
- c. Nuclear Regulatory Commission
- d. State and county agencies

3.1.1.3* Initiates activation of on-site and off-site emergency response organizations for an ALERT or higher level emergency classification.

3.1.1.4* Declares changes in the emergency classification level.

3.1.1.5* Provides protective action recommendations to off-site emergency management agencies regarding evacuation, sheltering or similar protective measures.

3.1.1.6* Authorizes emergency worker exposures in excess of 10 CFR 20 limits, but not greater than emergency exposure limits.

3.1.1.7* Determines the necessity for evacuation of nonessential personnel from the site and for evacuating personnel from on-site emergency centers.

3.1.1.8 Coordinates and directs emergency operations performed by company personnel within the site boundary.

3.1.1.9 Maintains communication with off-site emergency support groups.

3.1.1.10 Authorizes overtime and other expenses associated with establishing and maintaining emergency response.

3.1.1.11 Initiates the deployment of emergency teams as needed (e.g., Search and Rescue, Emergency Repair, Field Monitoring).

* The responsibility for these items cannot be delegated.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

3.1.5 Operations Shift Personnel

- 3.1.5.1 Responsible for the safe and proper operation of the unit.
- 3.1.5.2 Responds to abnormal and emergency conditions as necessary to mitigate such situations.
- 3.1.5.3 In the event of a fire, one Nuclear Operator will man the Fire Brigade in the capacity of the Fire Team Advisor.

3.1.6 Radiation Protection Monitor

- 3.1.6.1 Responsible for initial on-site and off-site dose projections.
- 3.1.6.2 Responsible for initial direction of on-site and off-site Field Monitoring Teams.
- 3.1.6.3 Provides technical advise (e.g., on-site radiation levels, radiation exposure criteria) to the Emergency Coordinator.
- 3.1.6.4 Performs dose rate and airborne activity surveys as required in the STSC/CR.

3.1.7 Security Director

Responsibilities and functions include:

- 3.1.7.1 Directs the on-site security force in the functions of personnel accountability, site access control and medical transportation.
- 3.1.7.2 Maintains station security and implements security contingency measures as appropriate per the PVNGS Physical Security Plan.
- 3.1.7.3 Calls out station emergency response personnel at the direction of the Emergency Coordinator.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

3.1.13 Satellite TSC Communicator

3.1.13.1 Upon direction from the Emergency Coordinator, commences initial notifications in accordance with applicable EPIPs.

3.1.13.2 Maintains records of communications received from or transmitted off-site.

3.1.14 Fire Team

Responds to fire alarms and reports to the location of the fire with assigned equipment to combat the fire and to assess the need for off-site assistance.

3.2 On-site Emergency Organization

The Emergency Coordinator of the on-shift Emergency Organization shall order the activation of the on-site Emergency Organization when an ALERT or higher classification level is declared. The primary functions of the on-site Emergency Organization shall be to manage the emergency by:

- Diagnosing plant conditions.
- Identifying and implementing corrective actions.
- Coordinating on-site emergency activities.
- Implementing protective actions for station personnel.
- Communicating with off-site agencies and off-site company emergency organizations until the Emergency Operations Facility (EOF) is activated.

3.2.1 Emergency Coordinator

The functions and responsibilities of the on-site Emergency Coordinator in addition to those assumed from the on-shift Emergency Coordinator (see Section 3.1.1) are:



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

3.2.2 Radiological Protection Coordinator (On-site)

- 3.2.2.1 Relieving the Radiation Protection Monitor of the responsibility for overall control and direction of on-site and in-plant field monitoring and for plant radiological controls.
- 3.2.2.2 Providing direction to the Radiological Protection Support Staff at the OSC in matters pertaining to plant radiological controls.
- 3.2.2.3 Providing technical advice to the Emergency Coordinator on radiological aspects of on-site emergency activities.
- 3.2.2.4 Supervising dose rate projection activities at the TSC.
- 3.2.2.5 Providing technical advice to the Emergency Coordinator and/or the Radiological Assessment Coordinator concerning recommendations for off-site protective actions based on the results of dose projections.
- 3.2.2.6 Evaluating the need for the administration of Potassium Iodide to personnel.
- 3.2.2.7 Evaluating conditions requiring emergency radiation exposure.
- 3.2.2.8 Directing the decontamination of PVNGS personnel and equipment.
- 3.2.2.9 Providing radiological update status to the Radiological Assessment Coordinator.
- 3.2.2.10 Authorizing exposures in excess of PVNGS Administrative Radiation Exposure Limits up to the limits of 10 CFR 20.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

3.2.8 Chemistry Coordinator (On-site)

- 3.2.8.1 Provides evaluation of coolant samples and air samples to aid in diagnosing reactor core conditions and release potentials.
- 3.2.8.2 Interprets results of chemical analyses for evaluation of plant systems.

3.2.9 Reactor Analyst (On-site)

Performs detailed analyses of core physics and heat transfer parameters to assess reactor core status and to evaluate the integrity of fuel cladding.

3.2.10 Emergency Maintenance Coordinator

- 3.2.10.1 Coordinates repair and damage control for plant systems including mechanical, electrical, and instrument and control equipment.
- 3.2.10.2 Advises the Emergency Coordinator on matters that deal with repair, maintenance and deployment of Emergency Repair Teams.
- 3.2.10.3 Directs the OSC Coordinator to assemble and dispatch all Emergency Teams.
- 3.2.10.4 Assesses mechanical operation of various plant systems and equipment.
- 3.2.10.5 Determines the need for additional mechanical support personnel.

3.2.11 Mechanical Coordinator

Shall determine and recommend repair/damage control and corrective actions for plant mechanical, HVAC and piping systems.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

3.2.16 OSC Coordinator

3.2.16.1 Functionally supervises the OSC.

3.2.16.2 Coordinates manpower resources available at the OSC.

3.2.16.3 Assembles and dispatches emergency teams (e.g., Search and Rescue, Emergency Repair, or Field Monitoring) at the direction of the Emergency Maintenance Coordinator.

3.2.17 Repairs Coordinator

Ensures that maintenance technicians and Emergency Repair Teams are dispatched at the direction of the Emergency Maintenance Coordinator.

3.2.18 Chemistry Support Staff

3.2.18.1 Takes and analyzes postaccident samples according to procedures.

3.2.18.2 Provides chemistry support as directed by the Chemistry Coordinator.

3.2.19 Radiological Protection Support Staff

3.2.19.1 Shall be dispatched to conduct in-plant on-site/off-site radiation surveys.

3.2.19.2 May be available for dispatch with Search and Rescue or Emergency Repair Teams (as required).

3.2.20 Security Director

3.2.20.1 Relieves the Security Shift Captain of his responsibilities as on-shift Security Director.

3.2.20.2 Maintains plant security and implements security contingency measures as appropriate per the PVNGS Physical Security Plan.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

3.2.24 NRC Liaison, Health Physics

Responsible for maintaining continuous phone communications with the NRC concerning radiological aspects of the event until relieved by a member of the NRC Site Team.

3.2.25 Operations Advisor

3.2.25.1 Provides technical and operational advice to the Shift Supervisor and, via Operations Coordinator (On-site), the Emergency Coordinator.

3.2.25.2 Acts as an interface to maintain the flow of information between the TSC and Control Room.

3.2.25.3 Analyzes conditions and develops guidance for the Emergency Coordinator and Operations personnel.

3.2.25.4 Assists in the development of emergency operating and other procedures, as necessary, for conducting emergency operations.

3.2.26 Radiation Protection Monitor

The Radiation Protection Monitor shall monitor on-site and off-site radiation dose projections in the Satellite TSC. He shall maintain communication with the Radiological Protection Coordinator at the TSC and shall keep the Operations Advisor apprised of the on-site and off-site radiological conditions.

3.2.27 Satellite TSC Communicator

The on-site Satellite TSC Communicator shall maintain the communications link for the Operations Advisor with the Emergency Coordinator in the TSC.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

3.2.32 Fire Team

Responds to fire alarms and reports to the location of the fire with assigned equipment to combat the fire and to assess the need for off-site assistance.

3.3 Off-site Emergency Organization

The on-shift Emergency Coordinator shall order the activation of the off-site Emergency Organization concurrently with the activation of the on-site Emergency Organization when an ALERT or more severe classification level is declared.

3.3.1 Emergency Operations Director

- 3.3.1.1 Commands and coordinates ANPP emergency operations from the EOF.
- 3.3.1.2 Responsible for overall command of ANPP on-site and off-site emergency functions.
- 3.3.1.3 Provides interface between ANPP and federal/state/ county emergency response agencies.
- 3.3.1.4 Communicates plant status updates and radiological release data to NRC/FEMA, state/county, EOC, CEC, CHIC, and Joint ENC personnel.
- 3.3.1.5 Provides administrative, technical and logistical support to station emergency operations.
- 3.3.1.6 Ensures continuity of emergency organization resources.
- 3.3.1.7* Makes the decision to notify off-site emergency management agencies.
- 3.3.1.8* Makes protective action recommendations as necessary to off-site emergency management agencies.

* The responsibility for these items cannot be delegated.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

- 3.3.3.2 Receives and evaluates dose rate projection information from the Radiological Protection Coordinator. Performs independent dose rate projections.
- 3.3.3.3 Advises the Emergency Operations Director of protective action recommendations to be provided to off-site authorities.
- 3.3.3.4 Coordinates the off-site field monitoring efforts.
- 3.3.4 Technical Analysis Coordinator
Functions as the primary interface with NRC/state/county personnel stationed in the EOF to provide updates on the status of the reactor and unit.
- 3.3.5 Radiological Assessment Communicator
 - 3.3.5.1 Maintains a record of matters pertaining to radiological assessment.
 - 3.3.5.2 Maintains communications with radiological assessment personnel at the TSC and Satellite TSC.
 - 3.3.5.3 As directed, positions off-site field monitoring teams.
- 3.3.6 Government Liaison Engineer
 - 3.3.6.1 Makes the initial notifications of the emergency, and subsequent notifications, if the emergency is reclassified.*

* The Government Liaison Engineer relieves the Satellite TSC Communicator of this responsibility.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

3.3.12 Off-site Technical Representative

3.3.12.1 Coordinates ANPP emergency response activities with federal/state/county agencies at the State EOC/TOC.

3.3.12.2 Provides up-to-date site information.

3.3.12.3 Interprets substantiated data regarding PVNGS emergency status and conditions for emergency response agencies assigned to the State EOC/TOC.

3.3.13 JENC Technical Advisor

Provides any necessary technical explanations to the JENC Spokesperson: APS or to the media as requested by the JENC Facility Manager.

3.3.14 JENC Facility Manager

Responsible for state/media coordination and subsequent release of all information to the media.

3.3.15 JENC Spokesperson: ANPP

3.3.15.1 Maintains liaison with the Emergency Operations Director and the Corporate Emergency Director.

3.3.15.2 Is the only person within the JENC organization (unless otherwise directed by the Corporate Emergency Director) who maintains direct communications with the news media representatives at the ALERT or more serious emergency classification.

3.3.15.3 Participates in news briefings.

3.3.15.4 Responds to direct inquiries from the news media.

3.3.16 Corporate Emergency Director

Directs corporate level response in support of the emergency organization at the Corporate Emergency Center.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

4.0 PROCEDURE

4.1 The PVNGS Emergency Organization operates from eleven onsite emergency centers (CR, STSC, and OSC of each Unit, TSC and Service Building) and is supported by four offsite centers (EOF, Corporate Emergency Center (CEC), Joint ENC and CHIC). For a NOTIFICATION OF UNUSUAL EVENT, the emergency is directed from the affected unit Control Room/STSC and command of the situation remains there with the on-shift Emergency Coordinator until either de-escalation/close-out or reclassification to a more severe emergency level occurs. The Corporate Headquarters Information Center shall be partially activated for a NOTIFICATION OF UNUSUAL EVENT classification and the Forward Newscenter fully activated. In the event of an ALERT or more severe classification the TSC, EOF, Joint ENC, CHIC and OSC are fully activated and the Forward News Center deactivated. The Corporate Emergency Center shall be activated and fully operational and shall provide the Emergency Operations Director and his staff with the resources (e.g., engineering, legal, financial) available within the APS organization.

NOTE: In an ALERT or more severe classification, the on-shift response organization is supplemented by the on-site response organization. Thus, the Emergency Coordinator role shall be transferred from the Shift Supervisor to the PVNGS Plant Manager or his alternate (Manager, Technical Support). Once the Emergency Coordinator role transfer has been completed, the Shift Supervisor shall assume his normal responsibilities as Unit Shift Supervisor.

NOTE: The designated Unaffected Unit Shift Supervisor to assume the role of the Emergency Coordinator in the On-shift Emergency Organization is:

<u>Affected Unit</u>	<u>Unaffected Unit Shift Supervisor</u>
Unit 1	Unit 2
Unit 2	Unit 1
Unit 3	Unit 2
Entire Site	Unit 1



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

4.1.6 Radiation Protection Monitor

This position shall be filled by a Radiation Protection Technician from the affected unit's shift complement. The Radiation Protection Monitor is stationed at the STSC and reports to the Emergency Coordinator.

In an ALERT or more severe classification, the Radiation Protection Monitor shall be relieved of the responsibility for directing in-plant and on-site Field Monitoring Teams and projecting doses by the Radiological Protection Coordinator (on arrival at the TSC). He shall be relieved of the responsibility for directing offsite Field Monitoring Teams by the Radiological Assessment Coordinator in the EOF. He shall remain in the STSC and monitor the radiological assessment activities being performed in the TSC and keep the Operations Advisor apprised of the situation.

4.1.7 Operations Support Center (OSC) Coordinator

This position shall be filled by the I&C Shift Maintenance Foreman or designated alternate who shall report to the Emergency Coordinator. The OSC Coordinator is stationed at the OSC. In the event of an ALERT or more severe classification, the I&C Shift Maintenance Foreman shall continue to fill the position of OSC Coordinator of the on-site Emergency Organization.

4.1.8 Security Director

This position shall be assumed by the Security Shift Captain. The Security Director is stationed at the TSC. The Security Director reports to the Emergency Coordinator and shall be relieved by the designated Security Director of the on-site Emergency Organization. Upon being relieved, he shall reassume his duties of Security Shift Captain in the Security Building.

4.1.9 Security Force

Security personnel located at the Central Alarm Station, Secondary Alarm Station, and other fixed posts shall main-



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

NOTE: Due to the limited number of Radiation Protection Personnel that may be available during an emergency, they shall be assigned duties in accordance with the following priority:

1. Accompany contaminated injured personnel off-site
2. Search and Rescue Team
3. Perform offsite dose calculations
4. Field Monitoring Team
5. Direction of Field Monitoring Teams
6. Repair Team
7. Decontamination Team (Area/Equipment)

4.1.14 Emergency Teams

Emergency teams (Search and Rescue, Emergency Repair, Field Monitoring) shall be formed from Emergency Response Shift Personnel assembled at the OSC. At a minimum, personnel assembled at the OSC include:

- ° One Radiation Protection Technician
- ° One Chemistry Technician
- ° Two Mechanical Maintenance Technicians
- ° One Electrical Maintenance Technician
- ° One I&C Maintenance Technician
- ° One Computer Technician

Emergency teams formed are as follows:



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

until he is relieved of this responsibility by the Radiological Assessment Coordinator in the off-site Emergency Organization.

4.1.14.4 Fire Team

The Fire Team shall consist of assigned Fire Department shift personnel. The Fire Team shall report to the Shift Supervisor. Two members of the Fire Team also constitute a First Aid Team if required.

4.2 On-site Emergency Organization

When an ALERT or higher classification level is declared, the on-site Emergency Organization positions shall be manned as soon as possible in accordance with the augmentation time goals set forth in the PVNGS Emergency Plan.

4.2.1 Emergency Coordinator

After being notified and following arrival on-site, the PVNGS Plant Manager or his alternate (Manager, Technical Support) should be briefed on plant conditions and the status of the emergency by the on-shift Emergency Coordinator. Following this briefing the PVNGS Plant Manager shall relieve the Shift Supervisor of the designated unaffected unit of his duties as Emergency Coordinator and shall assume management control of the on-site Emergency Organization. His station shall normally be in the TSC.

4.2.2 Radiological Protection Coordinator

This position shall be filled by the Manager, Radiological Services or his alternate (Radiological Engineer). The Radiological Protection Coordinator is stationed at the TSC. The Radiological Protection Coordinator reports to the Emergency Coordinator.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

4.2.8 Chemistry Coordinator

This position shall be filled by the Manager, Chemical Services or his alternate (Chemist). His location shall be in the TSC and he report to the Technical Engineering Coordinator.

4.2.9 Reactor Analyst

This position shall be filled by the Supervisor, Reactor Engineering or his alternate (Lead Reactor Engineer). His location shall be in the TSC and he reports to the Technical Engineering Coordinator.

4.2.10 Emergency Maintenance Coordinator

This position shall be filled by the Manager, Maintenance or his alternate (Superintendent Maintenance Control Center). The Emergency Maintenance Coordinator is stationed at the TSC and reports to the Emergency Coordinator.

4.2.11 Mechanical Coordinator

This position shall be filled by the Foreman, Mechanical Maintenance or his alternate (Mechanical Systems Engineer). He shall report to the Emergency Maintenance Coordinator and shall be stationed at the Service Building to facilitate access to tools and plant system schematics.

4.2.12 Electrical Coordinator

This position shall be filled by the Superintendent Electrical Maintenance Supervisor or his alternate (Electrical Systems Engineer). He shall report to the Emergency Maintenance Coordinator and shall be stationed at the Service Building.

4.2.13 Instrument and Control Coordinator

This position shall be filled by the I&C Supervisor or his alternate (I&C Systems Engineer). The I&C Coordinator shall report to the Emergency Maintenance Coordinator and shall be stationed at the Service Building.



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4.2.20 Security Director

This position shall be filled by the Manager, Operations Security or his designated alternate. The Security Director shall be stationed at the TSC. The Security Director reports to the Emergency Coordinator and is assisted by the Security Force.

4.2.21 Clerical Aid/Status Board Keeper

This position shall be filled by designated personnel with appropriate training. He shall be located in the TSC and report to the Personnel Resources Coordinator.

4.2.22 Information Monitor

This position shall be filled by the Compliance Manager or designated alternate and report to the Emergency Coordinator.

4.2.23 NRC Liaison, Operations

This position shall be filled by a License Training Instructor and report to the Operations Coordinator.

4.2.24 NRC Liaison, Health Physics

This position shall be filled by an ALARA Staff Engineer and report to the Radiological Protection Coordinator.

4.2.25 Operations Advisor (On-site)

This position shall be filled by the affected Unit Superintendent or his alternate (affected Unit Day Shift Supervisor). The Operations Advisor reports to the Emergency Coordinator.

4.2.26 Radiation Protection Monitor

This position shall be filled by a Radiation Protection Technician from the affected unit. The Radiation Protection Monitor shall be stationed in the Satellite TSC and shall report to the Operations Advisor.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

4.3.1 Emergency Operations Director

After being notified and following arrival on-site, the Assistant Vice President, Nuclear Production or his alternate (Manager, Operations) shall be briefed on plant conditions and the status of the emergency by the Emergency Coordinator. Following this briefing, the Assistant Vice President, Nuclear Production shall assume the duties of the Emergency Operations Director. He shall be stationed in the EOF.

4.3.2 Administrative and Logistics Coordinator

This position shall be filled by the Manager, Operations Computer Systems or designated alternate and be stationed in the EOF. The Administrative and Logistics Coordinator reports to the Emergency Operations Director.

4.3.3 Radiological Assessment Coordinator

This position shall be filled by the Manager, Radiation Protection and Chemistry or designated alternate. He shall be located in the EOF and report to the Emergency Operations Director.

4.3.4 Technical Analysis Coordinator

This position shall be filled by a designated person from Independent Safety Engineering Group (ISEG) or designated alternate. The Technical Analysis Coordinator shall be located at the EOF and reports to the Emergency Operations Director.

4.3.5 Radiological Assessment Communicator

This position shall be filled by a designated staff member of the Radiation Protection Section. He shall be located at the EOF and report to the Radiological Assessment Coordinator.



TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

4.3.12 Off-site Technical Representative

This position shall be filled by a designated staff member of the Nuclear Operations Licensing Group or designated alternate. The Off-site Technical Representative shall be located at the State EOC/TOC at Arizona Division of Emergency Services headquarters in Phoenix and shall report to the Technical Analysis Coordinator.

4.3.13 JENC Technical Advisor

This position shall be filled by a designated member of the Nuclear Engineering Department or designated alternate. He shall be available at the Joint ENC at all times that media is present and shall review the technical content of all media releases. He reports to the Technical Analysis Coordinator and shall interface with the JENC Facility Manager.

4.3.14 JENC Facility Manager

This position shall be filled by the Supervisor, Audio/Visual-Photographic Services or his alternate (Senior Research Analyst). He shall be located at the JENC.

4.3.15 JENC Spokesperson: ANPP

This position shall be filled by the Executive Vice President, Project Director or his designated alternate. The JENC Spokesperson: APS shall be stationed at the Joint Emergency News Center and shall maintain liaison with the Emergency Operations Director and the Corporate Emergency Director.

4.3.16 Corporate Emergency Director

This position shall be filled by the Chairman of the Board and Chief Executive Officer or his alternate. The Corporate Emergency Director is located at the CEC and has access to the APS Board of Directors, as well as Chief Executive Officers of other utilities.



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TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

5.0 REFERENCES

5.1 Implementing References

None.

5.2 Developmental References

5.2.1 NUREG-0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"

5.2.2 PVNGS Emergency Plan, Rev. 6

6.0 FORMS AND ATTACHMENTS

6.1 None.

CONTROLLED DOCUMENT

EMERGENCY PLAN IMPLEMENTING PROCEDURE TRANSMITTAL

CONTROLLED DOCUMENT LIST I

EPIP NO. Re-issue cover page EPIP-04, pcn 01 Rev.09 DATE 3/24/86

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FOR NRC

FOR NRC QUINN/4057 W/NRC LETTER ON R/A
Jack Martin/Adm. 8-8

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Gail M. Temple	8-5
Falk Kantor	8-6

PROCEDURE GROUP

Dennis Yows 5-36A thru 5-36I
Emergency Kits coordinate w/ J. Sims

CONTROLLED DOCUMENT

PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

ASSIGNED COPY

PAGE 1 of 2

INTENT CHANGE: NO
YES

8-9A

1. PROCEDURE TITLE Alert Implementing Actions
2. PROCEDURE NUMBER EP1P-04 REV. 9 PCN 1
- 2a. Manager concurrence to exceed 5 PCNs N/A DATE _____
3. REASON FOR PCN: To make the STSC Communicator aware that the NRC may request the ENS be manned continuously during an event.
4. EXPIRATION: permanent
5. AFFECTED STEPS: Page 6, section 3.0
CHANGE REQUIRED: Delete page 6; Insert 6a
6. PREPARED BY: Herald A. Simola 2/26/86
SIGNATURE DATE
ENTERED IN PROCEDURE BY: _____
SIGNATURE DATE
7. TEMPORARY APPROVAL: N/A
SIGNATURE DATE
8. DEPT. MANAGER: James J. Green 2/26/86
SIGNATURE DATE
9. PRB/PRG/TRRG: John L. Williams 3/12/86
SIGNATURE DATE
10. APPROVED BY: [Signature] 3/13/86
DEPARTMENT MANAGER'S SIGNATURE
11. DATE EFFECTIVE: 03-21-86



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

May 21, 1986

50-528/529/530 Palo Verde

MEMORANDUM FOR: Chief, Document Management Branch, TIDC
FROM: Director, Division of Rules and Records, ADM
SUBJECT: REVIEW OF UTILITY EMERGENCY PLAN DOCUMENTATION

The Division of Rules and Records has reviewed the attached document and has determined that it may now be made publicly available.

Donnie H. Grimsley

Donnie H. Grimsley, Director
Division of Rules and Records
Office of Administration

A handwritten signature in black ink, appearing to read "Donnie H. Grimsley", written over the typed name and title.

Attachment: As stated