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CONTROLLED DOCUMENT TIST

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

V. Elish G. Fiorelli -R. Se ----.... Jacek Orlowski 12-22 Compliance Leon Trown 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 5-129 J. Cedercuist ----T. Shriver 5-8 T. Barsuk -D. Best 5-86 R. Johnson 5-12 Sec Cot 15-1 Doeg Nelson 5-41 EOF 17-1A EOF 17-13 EOF 17-1C EOF 17-1D EOF (Room 12) 17-1E EOF 17-1F Unit 2 Rad Protection 5-05 Martha Roettger 5-114 Mike Crusa 17-4 Gary Clyde <u>12-61</u> 5-79 M.L. Clyde Dennis Yows 5-36 Bill Knighton 15-2 Russ Papworth 5-7 13-18 Bruce Rash Dan Phillips 13-16 3 J. M. Allen 5-31 W. Fernow 5-14 C. Anderson 2 4 -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 8605270355 860417 PDR ADOCK 05000528 010

PDR

C	
Unit Control Room	5-28
Kris Oberdorf	5-6
Darrel Nissen	3-0
Unit I Radwaste	5-43
Frank Warriner	3-3
T. Warren	5-21
Startup Complex (Upstairs)	2-10A
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B. Rogers/ISC	5-94
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TSC	3-5
Galon Olson	3-8
Steve Grove	3-4
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Maintenance Manager TSC E Plan Anal	3-11
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Unit 2 Control Room	5-25
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M. Zimmerman	20-1
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TOWN' FL QUINN/4057 W/NRC LETT	ER ON R/A
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Document Cont. Desk.	8-9B
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Falk Kantor	8-6

PROCEDI	JRE GROUP	
Dennis Yows	5-36A thru 3	-36I
Emergency Kits of	coordinate w/ J.	Sims

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PALO VERDE NUCLEAR GENERATING STATION EMERGENCY PLAN IMPLEMENTING PROCEDURES

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CHANGE L	IST DATE	DATE 03-21-86		
Procedure Number	Procedure Title	Rev.	Date Effective	
EPIP-03	Notification Of Unusual Evemt Implementing Actions	10	03-21-86	
EPIP-04	Alert Implementing Actions	09	03-21-86	

Sort COPY 8-9A

PALO VERDE N	NUCLEAR GENERATING STATION
	EDURE CHANGE NOTICE
SIGNED COPY	PAGE / of
NGS 8-94	INTENT CHANGE: NO YES
1. PROCEDURE TITLE _ Notification of Unus	ual Event Implementing Actions
2. PROCEDURE NUMBER EPIP.03	REV. 10 PCN /
2a.Manager concurrence N/K to exceed 5 PCNs	DATE
the ENS be manned continuously	Communicator aware that the NRC may request during an event.
4. EXPIRATION: permonent	
5. AFFECTED STEPS:	CHANGE REQUIRED:
Page 5, Section 3.D	Delete Aq 5; Insert Sa
6. PREPARED BY: Meralda. Simiele	
6. PREPARED BY: <u>Heralda. Simiele</u> SIGNATURE	ENTERED IN PROCEDURE BY:
6. PREPARED BY: Meralda. Simiele	ENTERED IN PROCEDURE BY:
6. PREPARED BY: <u>Herald a. Simiele</u> SIGNATURE 7. TEMPORARY APPROVAL: <u>NK</u> SIGNATURE	<u>Delek Ry 5; Insert Sa</u> <u>Zluglag</u> DATE SIGNATURE
6. PREPARED BY: <u>Herald a. Simiele</u> SIGNATURE 7. TEMPORARY APPROVAL: <u>NK</u>	<u>Delek Ry 5; Intert Sa</u> <u>ENTERED IN PROCEDURE BY:</u> <u>2/16/86</u> DATE SIGNATURE

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION	Page 1 of 26

ASSIGNED COPY. PVNGS #8-9/A

DEPT. HEAD Harry f. Billing for Barris Town DATE 12/4/25 DATE 4/2/88 PRB/PRG/TRRG REVIEW DATE 1/6 APPROVED BY EFFECTIVE DATE 01.15.86 DN-1598A/0787A

EPIP-03
10 Page 2 of 26
RY
Comments
Revised Appendices and
Callouts
Incorporated PCN's #01 & 02
of Rev. 5 Revised Appendice
and Callouts.
Incorporated PCN #01 of Rev
6 and added step for
cancellation using group
page.
Added_termination_message
form and instructions
Changed initial and follow-
up message 50 actions
(circle vs cross-ouc) are
consistent. Changed initia
and follow-up message to
match changes the state
requested. Capitalized
announcements to make stand
out. Updated all reference
to the correct appendices.

	EMERGENC		PHOCEDURE NO. EPIP-03	
	IFICATION OF UN T IMPLEMENTING		REVISION 10	Page 3 cf 26
		REVISION HI	STORY	
Rev. No.	Date	Revised Pages		Comments
9	09-10-85	4, 5, 7, 9,	Incorporate	ad PCN# 1 & 2
	(d) man and an and	10, 11, 12,	of Rev. 8.	Added specific
		19, 20, 24,	announceme	nt instructions,
al advanced a contactor		25 26	instruction	as for notifing
	agam in mark and		compliance	, new group paging
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10	01-16-000 09-16-85-	4, 9, 9, 16, 11		ed PCN# 1 & 2 of
		12, 13, 14,	Rev. 9. D.	elecad Time/
		16, 17, 24,	Initials Co	elumn in
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	
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### APPENDICES

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Appendix	B	•	Emergency Notification Call List - PVNGS Security	12
Appendix	С	*	Initial Emergency Message Form	13
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<ol> <li><u>OBJECTIVE</u></li> <li>1.1 This procedure provide taken upon declaration</li> <li>2.0 <u>REFERENCES</u></li> <li>2.1 Implementing References</li> <li>2.1.1 ERIP-02, "Emergency</li> </ol>	of a NOTIF:	ICATION OF UNUS	actions to be UAL EVENT.
		/	
		enter/Satel/ite	ISC Activation
		/	
2.1.4 EPIP-23, "Fire Fig		/	
2.1.5 9N219.05.00, "Docur		Tarnover Contr	01"
2.2 Developmental Referend	es /		
2.2.1 NUREG-0654, Rev. 1 of Radiological Em Support of Nuclear	ergency Rest	oonse Plans and	n and Evaluatio Preparedness
2.2.2 PVNGS Emergency P1	n, Rev.		
3.0 LIMITATIONS AND PREDAUTIC	ONS		
3.1 Continued surveillance necessary to ensure the appropriately revised a information is obtained	at the emerg as condition	renew classific	ation is
3.2 Notifications to State, Notification Call List shall be commenced with emergency.	- Emergency	Coordinator/S'	TSN Communicate
/			/
			. \

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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.

	EMERGENCY PLAN NTING PROCEDURE	PROCEDURE NO. EPIP-03	
	FICATION OF UNUSUAL IMPLEMENTING ACTIONS	REVISION 10	Page 6 of 26
4.0 <u>DETA</u>	ILED PROCEDURE		
4.1 Pe	rsonnel Indoctrination/Resp	onsibilities	
4.1.1	In a NOTIFICATION OF UNUS available to take precaut prevent a more serious ev consequences that may occ plant in a readiness posi routine activities and/or No releases of radioactiv response are expected. A state/county authorities	ionary and construc ent and/or to mitig ur. This event sta tion for possible c augmentation of on e material requirin ppropriate notifica	tive steps to ate any tus places the essa ion of shift resources. g offsite
4.1.2	The Shift Supervisor shal procedure. The Emergency for completing the implem	Coordinator shall	be responsible
4.2 Pr	erequisites .		
4.2.1	The emergency has been cl Classification."	assified per EPIP-0	2, "Emergency
4.3 In	structions		
4.3.1	The affected unit Shift St following:	upervisor shall per	form the
	<u>N</u>	DTE	
	Designated Unaffected to assume the role o Coordinator in the O Organization are:	f the Emergency	isor
	Affected Unit Una Unit 1 Unit 2 Unit 3 Entire Site	ffected Unit Shift Unit 2 Unit 1 Unit 2 Unit 2 Unit 1	Supervisor

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	
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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 not provide the plant wide)

"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". 10

(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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NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION	Page 8 of 26	

#### 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

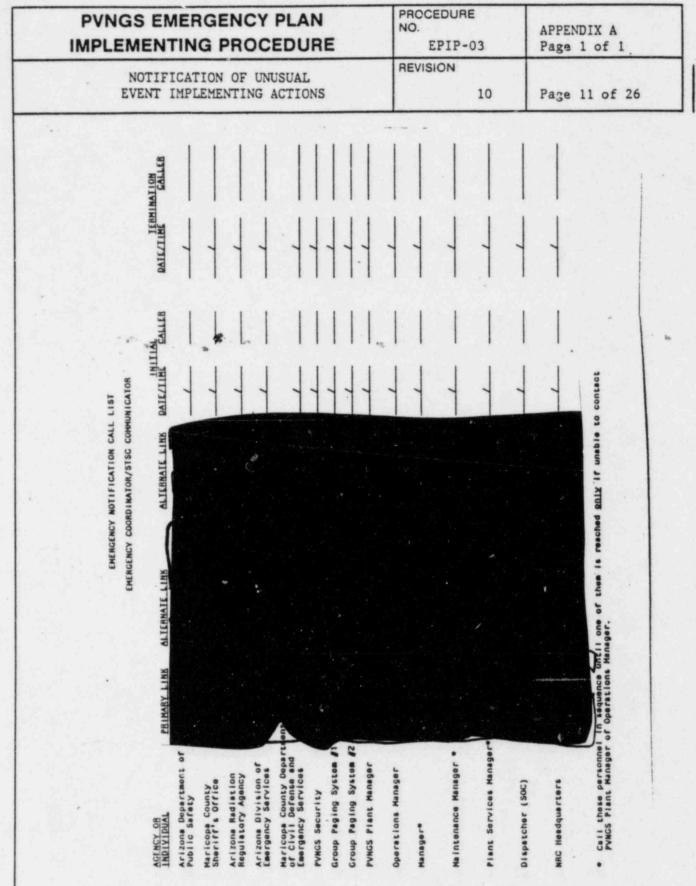
If the emergency is terminated before initial notifications are finished, complete the notifications per Appendix A, then repeat Appendix A with the notification of termination. If the emergency is terminated before initial notification can be started, provide both initiating and terminating messages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

	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS		Page 9 of 26
4.3.2.3	4.3.2.3 Determine the need for needed, additional pers existing on-shift organ		
4.3.2.4	If it is determined the support the emergency deactivate and allow to normal work stations.	response, notify th	he OSC to
4.3.2.5	Direct the STSC Commun "Follow-up Emergency M instructions provided	lessage Form" in ac	Appendix D, cordance with
4.3.2.6	Reevaluate the emerger licensee actions as co EPIP-02.	ncy classification of onditions change by	and perform implementing
4.3.2.7	When the situation war NOTIFICATION OF UNUSUA implementing and notif Shift Supervisor to an the public address sys Rooms. Keep PVNGS Pla event.	L EVENT, proceed to fication procedures mounce the reclass tem and inform the	and direct the ification over other Control
4.3.2.8	Provide over all direc emergency response as Coordinator Response.	tion and control of per Appendix I - En	f the <u>ONSHIFT</u> margency
UNU ter Not	GS Security, after bein ordinator or STSC Commun SUAL EVENT is in progree minated, shall complete dification Call List - P Lividuals or departments	ss or has occurred Appendix B, "Every VNGS Security." and	FICATION OF , or has been
4.3.4 Eme	rgency Situation Termin	ated	
4.3.4.1	Consult with the PVNGS emergency.	Plant Maneger pric	or to closing out

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	RGENCY PLAN	PROCEDURE NO. EPIP-03	
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS		Page 10 of 26
4.3.4.2	The Shift Supervisor ensure the following wide telephone page (	announcement is mad	inator) shall e over the plant
	DECLARED IN UNIT	ASSONNEL, THE EMERGE HAS NOW BEEN T INSTRUCTIONS AS NEC	TERMINATED."
4.3.4.3	Ensure the announceme the site warning sire	ent in step 4.3.4.2 en/public address sys	is repeated over stem.
4.3.4.4	Ensure the announceme repeated once.	ent in steps 4.3.4.2	and 4.3.4.3 is
4.3.4.5	Direct the STSC Commu "Emergency Terminatic provided in Appendix	n Message Form," per	Appendix E, r instructions
4.3.4.6	Direct the STSC commu per Appendix A.	nicator to transmit	the termination
4.3.4.7	The S.S./E.C. shall m ext. (or beeper during off hours) and provided to offsite a S.S./E.C. shall provi room logs, etc. as re preparation of the re	No. request a written s outhorities within 24 de copies of shift i quested by Compliand	summary be hours.
4.3.5 Rec	cord Retention	port.	
4.3.5.1	Appendices A, B, C, D the Emergency Plannin ensure they are forwa accordance with 9N219 Control."	g Dept., mail static rded to DDC for prov	on 6010, to



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NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS 10 Page 12 of 26	PVNGS EMERGEN		PROCEDURE NO. EPIP-03	APPENDIX B Page 1 of 1
REAGENCY NOTIFICATION CALL LIST - PYNGS SECURITY REAGENCY NOTIFICATION CALL LIST - PYNGS SECURITY REAGENCY NOTIFICATION CALL LIST - PYNGS SECURITY Outra only.				Page 12 of 26
urity tion se stions: ancy ring vo		PRIMARY LINK ALTERNATE LINK DATECTION CALL LIST - PWICS SECURITY		
AGENCY OR INDIVIDUAL Corporate Security Site Construction Sec Office Nucleer Administratic ANPP Site Constructic ANPP Site Constructic ANPP Site Constructio Sechtel Eastgency Bechtel Eastgency Bechtel Eastgency Bechtel Eastgency		AGENCY OR INDIVIDUAL Corporate Security Site Construction Security Office Nuclear Administration	ANPF Site Construction Office* Bechtel Esergency Control Center *Available during vork	

	NGS EMERGENCY PLAN	PROCEDURE NO. EPIP-03	APPENDIX C Page 1 of 1
	NOTIFICATION OF UN SUAL	REVISION	
	EVENT IMPLEMENTING ACTIONS	10	Page 13 of 26
	INITIAL EMERGENC NOTIFICATION OF ALERT, SITE AREA EMERGENC	UNUSUAL EVENT	GENCY
1	Verbatim text of Message: THIS IS IS PALO VERDE NUCLEAR GENERATING S (ALERT) (SITE AREA EMERGENCY) (GEN (circle applica	TATION (NOTIFICATI	ON OF UNUSUAL EVENT
declared	i at $\frac{1}{(time)} - \frac{1}{(date)}$ - Wind is fr	com degrees -	Atmph. (speed)
PALC	VERDE AUTHENTICATOR(authenti	cator letters)	
2. This		he Palo Verde Nucl	ear Generating
Stat	(name/title) tion Unit		
3. (Cin	rcle One)		
(a)	There is <u>NO</u> , repeat <u>NO</u> , radioact protective actions are recommend OR	led at this time.	place and no spec:
(b)	There is <u>NO</u> , repeat <u>NO</u> , radioact operating limits and <u>NO</u> protecti OR	ve actions are rec	ess of allowable ommended at this t
(c)	There is <u>NO</u> , repeat <u>NO</u> , radioact However, the following protectiv Sectors	ive release taking e actions are reco Distance ()	mmended.
(d)	OR A radioactive release <u>IS</u> , repeat people in affected sectors remai Sectors	IS, taking place.	dows and doors clos
	OR		
(e)	A radioactive release <u>IS</u> , repeat evacuation of affected sectors b Sectors	IS, taking place.	
4. THIS	S IS (IS NOT) A DRILL!! (Circle Or	ne)	
	Annual Da		
1.1.1.1.1.1	Approved By (SS/EC/EOD)		

IM	VNGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX D Page 1 of 3
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 14 of 26
	FOLLOW-UP EMERGENCY	MESSAGE FORM	
1.	Verbatim text of Message: THIS IS THIS IS A PALO VERDE NUCLEAR GENER message concerning the (NOTIFICATI AREA EMERGENCY) (GENERAL EMERGENCY (circle applic	ATING STATION foll ON OF UNUSUAL EVEN	ow-up informatic T) (ALERT) (SITE
	declared at	-	
2.	(time) (date) This is, at P Unit (name/title)	alo Verde Nuclear	Generating Stati
	Brief description of event		
4.	Meteorological Data		
4.	Meteorological Data a. Wind direction from	(degrees) - at (sp	miles per hou eed)
4.	a. Wind direction from	(sp	miles per hou eed)
4.	<pre>a. Wind direction from</pre>	(sp r) G	miles per hou eed)
4.	<ul> <li>a. Wind direction from (direction)</li> <li>from to (sector)</li> <li>b. Stability Class: A B C D E F</li> </ul>	(sp r) G e)	miles per hou eed)
	<ul> <li>a. Wind direction from (direction)</li> <li>from to</li> <li>b. Stability Class: A B C D E F (Circle On</li> <li>c. Precipitation Yes No</li> </ul>	(sp r) G e)	miles per hou eed)
5.	<ul> <li>a. Wind direction from (direction)</li> <li>from to</li> <li>b. Stability Class: A B C D E F (Circle On</li> <li>c. Precipitation Yes No (Circle One</li> </ul>	(sp r) G e)	miles per hou eed)

IMP	LEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX D Page 2 of 3
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 15 of 2
5.	b. Release Time		
	c. Reactor Trip Time	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	d. Location/Source of Release		
6.	Current Release Rates	~ ~	
	a. I-131 Equivalent	Çi/second	
	b. Noble Gas	C1/secona	
7.	Two-hour plume centerline projecte		
	Distance Sector Whole Body	Child Thyroid	
	Dose (REM)	Dose Commitment (REM)	
	지난 그는 그는 것을 알았는 것		
	Site Boundary		
	2 miles		
	2 miles		
	2 miles		
	2 miles		
8.	2 miles		
8.	2 miles 5 miles 10 miles		
8.	2 miles 5 miles 10 miles Plume arrival time offsite: 2 mi 5 mi		
8.	2 miles 5 miles 10 miles Plume arrival time offsite: 2 mi	01	
8.	2 miles 5 miles 10 miles Plume arrival time offsite: 2 mi 5 mi 10 mi		

10. The Following Emergency Measures Including Protective Actions Recommended:		EMERGENCY PLAN	PROCEDURE NO. EPIP-03	APPENDIX D Page 3 of 3
Recommended:				Page 16 of 2
12. We Request the Following Onsite Support and Assistance from Onside Support and Assistance from Onsources:			Including Protectiv	e Actions are
Sources:	11. The Fo	llowing Emergency Response	Actions are Underway	y:
13. Our Prognosis of the Emergency is that Conditions: Are Under Control Can Be Expected to Terminate Withinhours Are Worsening 14. Other Information:	12. We Req Source	S:	Support and Assistan	ce from Offsite
Are Under Control Can Be Expected to Terminate Withinhours Are Worsening 14. Other Information:		age, ste		
Can Be Expected to Terminate Withinhours Are Worsening 14. Other Information:	13. Our Pr	ognosis of the Emergency is	s that Conditions:	
	C	an Be Expected to Terminate	e Withinhours	
김 씨는 집에 가장 이 것 같아. 아이는 것 같아. 아이는 것 같아. 아이들의 것이 많이	14. Other	Information:		
<ul> <li>a) Power Prior to Event</li> <li>b) Current Power on mode</li> <li>c) Mode of Operation Till Correction</li> <li>d) Estimated Time to Restart</li> </ul>	b) Cu c) Mo	rrent Power on mode de of Operation Till Correc	ction	
15. THIS IS (IS NOT) A DRILL !! (Circle One)	15. THIS I	S (IS NOT) A DRILL!! (Circ)	le One)	

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	NO. EPIP-03	APPENDIX E Page 1 of 1
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION	Page 17 of 2
EMERGENCY TERMINATI	ON MESSAGE FORM	
<ol> <li>Verbatim text of message: THIS THIS IS PALO VERDE NUCLEAR GENE UNUSUAL EVENT) (ALERT) (SITE AR (circle approprite classificati AT</li> </ol>	RATING STATION. THE EA EMERGENCY) (GENERA	(NOTIFICATION O L EMERGENCY)
(Time) (Date		
(Time) - (Dat		
2. This is(Name)	(Title)	_, at Palo
Verde Nuclear Generating Statio	the second se	
3. PALO VERDE AUTHENTICATOR	(Authenticator Lett	ers)
성 이 가 같은 것 같아.		
Approved: (SS/EC/EOD)	Date/1	lime

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX F Page 1 of 3
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 18 of 26

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

* se +

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

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 g not answer the NAN phone or NA drill, or actual emergency, th Communicator) shall notify the (numbers listed in App. A)	N backup radio dur ne nuclear operator	ing a test, (or STSC
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 obtai Emergency Message Form verbati verbatim.	ned a copy, read t m and request MCSO	he completed to read back
1.8	Offer to repeat information an	nd reiterate as nec	essary.
	NOTE		
	To verify the group page pager installed in the ST much as two (2) minutes m dial-up and the broadcast	ISC. Be aware that may lapse between	
1.9	Notify additional personnel as and inform them of the situation for both Group Paging Systems	ion. Provide the f	ollowing message
	"THIS IS PVNGS, UNIT PLEASE RESPOND APPROPRIAT once).		
1.10	If an individual requests info Emergency Message Form, make a give the information only after been made.	reasonable efforts	to obtain and
1.11	Contact the NRC via the Emerge dedicated telephone within 60 If the ENS phone fails, use co alternate line.	minutes of declar:	ing an emergency.
1.17	When contact is made, the cal the completed Emergency Messa Verde Authenticator).		
1.13	Offer to repeat information a	nd reiterate as ne	cessary.

2.0 <u>FO</u> 2.1	OTIFICATION OF UNUSUAL ENT IMPLEMENTING ACTIONS LLOW-UP EMERGENCY MESSAGE FOR Fill in data required by step: Emergency Message Form." <u>NOT</u> If the emergency is non- steps 4-9 may be deleted	s 1–3 of Appendix D <u>E</u>	Page 20 of 26
2.1	Fill in data required by step Emergency Message Form." <u>NOT</u> If the emergency is non-	s 1–3 of Appendix D <u>E</u>	, "Follow-up
	Emergency Message Form." <u>NOT</u> If the emergency is non-	E	, "Follow-up
	If the emergency is non-		
		andialanianl in mary	
	accha + 2 may no dereced		ire,
	Obtain from the Radiation Pro complete steps 4-9.	tection Monitor dat	a required to
	Obtain from the Emergency Coo steps 10-14.	rdínator data requi	red to complete
2.4	Circle appropriate wording in	step 15.	
	Dispense information when req ARRA).	uested by offsite a	gencies (NRC or
3.0 <u>EM</u>	ERGENCY TERMINATION MESSAGE F	ORM (APPENDIX E)	
3.1	Fill in data required by step Termination Message Form."	os 1-3 to Appendix E	, "Emergency
3.2	Obtain approval from SS/EC/EO	D.	
3.3	Transmit termination per Appe	endix A.	
	NOT	TE	
	To verify the group page pager installed in the S		
	much as two (2) minutes dial-up and the broadcas		
3.4	When using the Group Paging S termination, use the followin		event
	"THIS IS PVNGS, UNIT TERMINATED. PLEASE CANO	, EMERGENCY CEL RESPONSE TO EMER	GENCY."

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX G Page 1 of 2
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#### NOTIFICATION ALERT NETOWRK (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.

- 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."
- 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.

- 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?" (MCDCD&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.
- Upon completion of the second roll call, announce: "K-O-N 5-1-1 Palo Verde off." This is the required FCC sign-off.

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6. Continue notifications per Step 1.8 of Appendix F.

A. S. A.

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NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 23 of 26

#### PROTECTIVE ACTION RECOMMENDATIONS

Classification	Protective Actions
Category	Recommendations

Notification of Unusual Eventevents 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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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX I Page 1 of 2	
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 24 of 26	10

EMERGENCY COORDINATOR RESPONSE

POSITION FILLED BY:

#### Onshift Organization

Shift Supervisor of the designated unaffected unit
 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 <u>ONSHIFT</u> 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.
- Activate the Satellite STSC per EPIP-11, "Technical Support Center/Satellite TSC Activation."
- 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.
- Provide plant wide public address announcement when the the STSC is activated.
- 7. Implement EPIPs according to the situation that resulted in the classification.

#### SUBSEQUENT RESPONSE

- As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
  - 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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	IMPLEMENTING PROCEDURE	NO. EPIP-03	APPENDIX I Page 2 of 2
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 25 of 26
	EMERGENCY COORDINA	TOR RESPONSE	
	(2) For personnel injury, contact the of the situation. Dispatch a Firs coordinate any required offsite as	st Aid Team, if nec	and inform them essary, and
9.	Determine the need for additional pers Director to initiate call out.	sonnel and directth	e Security
10.	If it is determined that the OSC is no response, notify the OSC to deactivate to return to normal work stations.	ot required to supp e and allow the res	ort the emergenc ponse personnel
11.	As appropriate, complete Follow-up Eme	ergency Message For	m.
12.	Reevaluate the emergency classification reclassify as necessary. Keep PVNGS H of event.	on as conditions ch Plant Manager infor	ange per EPIP-02 med as to status
13.	Reassess corrective and protective act	tions. Verify acti	vities underway.
	Recovery		
14.	Consult with the PVNGS Plant Manager p	prior to closing ou	t emergency.
15.	Complete notifications per Appendix F direct the STSC Communicator to do the	when emergency is same.	closed out or
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. event termination. Provide logs as re	equested.	af the second second
* Co	ntinuing Activity		

10

Γ-	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX J Page 1 of 1	
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 26 of 26	10

#### STSC COMMUNICATOR RESPONSE

POSITION FILLED BY: Nuclear Operator from affected unit

<u>RESPONSIBILITY</u> Initiate the notification process as directed by the <u>onshift</u> 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

- Complete the Initial Emergency Message Form as directed by the onshift Emergency Coordinator or Shift Supervisor.
- 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.
- 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 <u>onshift</u> Emergency Coordinator or Shift Supervisor upon event termination.
- 10. Transmit termination per Appendix A.

* Continuing Activity

	PROCEDURE CHANGE NOTICE
SSIGNED COPY	PAGE 1 0
VNCS 8-9A	INTENT CHANGE: NO YES
. PROCEDURE TITLE Alert Implem	menting Actions
. FROCEDURE NUMBER EPIP-04	
a. Manager concurrence	DATE
request the ENS be manned	STEC Communicator oware that the NRC may
in any management in the second	touring a coopt
a characteristic and an experimental sector to the sector sector sector well as a sector of a sector to the	
EXPIRATION:	
	CHANGE REQUIRED: Delete poge 6; Insert 6a
AFFECTED STEPS:	
. EXPIRATION: <u>permanent</u> . AFFECTED STEPS: <u>Page 6 soften 3.0</u>	
AFFECTED STEPS: <u>Page (o sochen 3.0</u> PREPARED BY:	ENTERED IN PROCEDURE BY:
AFFECTED STEPS: <u>Page 6 soften 3.0</u>	Delete page 6; Insert 6a ENTERED IN PROCEDURE BY:
AFFECTED STEPS: <u>Page 6 soften 3.0</u> PREPARED BY: <u>Heinella</u> . <u>Hinicle</u> SIGNATURE	ENTERED IN PROCEDURE BY:
AFFECTED STEPS: <u>Page 6 soften 3.0</u> PREPARED BY: <u>Heisella</u> . <u>Hinicle</u> SIGNATURE TEMPORARY APPROVAL:	Delete page 6; Insert 6a ENTERED IN PROCEDURE BY:
AFFECTED STEPS: <u>Page 6 soften 3.0</u> PREPARED BY: <u>Heinella</u> . <u>Hinicle</u> SIGNATURE	Delete page 6; Insert 6a ENTERED IN PROCEDURE BY:
AFFECTED STEPS: <u>Page 6 soften 3.0</u> FREPARED BY: <u>Heisella</u> . <u>Hiniele</u> SIGNATURE TEMPORARY APPROVAL: <u>NA</u>	Delede page 6; Insert 6a ENTERED IN PROCEDURE BY: DATE SIGNATURE

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ASSIGNED COPY 8-90 PVNGS

DEPT. HEAD Wary f. Bulling for Darris Tous DATE 12/4/85 PRB/PRG/TRRG REVIEW CA BULLINGUL DATE 1/2/85 _ DATE _1/6 APPROVED BY 01-15.86 EFFECTIVE DATE DN-1599A/0180A

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE			PROCEDURE NO. EPIP-04			
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		PEVISION	HISTORY			
Rev. No.	Date	Revised Pag	85	Comments		
5	2-28-85	A21	Revised Fr	ocedure and		
			Appendicie	s; added steps to		
			clarify pr	ocedure and added		
			appendix t	o provide NAN		
			backup ins	backup instructions		
6	6 05-10-85 10, 11 and 1		Incorporated PCN #01 of Rev			
			5 and adde	d step for		
			cancellati	on of emergency		
			with group	page.		
7	06-19-85	3, 5, 7, 8,	Added term	ination message		
		9, 10, 13,	form and i	nstructions;		
		14, 17, 18,	Capitalize	Capitalized announcements		
		19, 20, 22,	make easy	make easy to indentify;		
	· `	24, 25, & 21	Added step	Added step for announcement		
			if account.	if accountability is		
			performed;	Changed and		
			updated al	l referrals to		
			various app	pendices. Also		
			added note	to provide		
			guidance or	n notifications.		
			Added infor	Added information on 15		
			minute time	minute time requirement.		

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		REVISION HIS	TORY	
Rev. No.	Date	Revised Pages		Comments
8	09-10-85	4,6,9,11,12,	Revised to	add new plan #'s
<u></u>	14 <u>12 12 1</u> 2 1	13,14,21,22,	STSC Commu	nicate checklist,
		26,27,29,30,	and specif	ic instructions
		33,34,36,37,	for announ	cements
		38		
9	<u>c1.15-60</u>	4,9,10,11,13,0	, Incorporat	ed PCN #1 and 2
		14,15,16,18,	of Rev. 8,	delated
		19,26,27,28,	time/initi	als column in
		29,30,31,32,	Appendices	I and J.
		33,34,35,36,		
		37,38		
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3.0 LIMITATIONS AND PRECAUTIONS		6

 4.0 DETAILED PROCEDURE
 6

 4.1 Personnel Indoctrination/Responsibilities
 6

 4.2 Prerequisites
 7

 4.3 Instructions
 7

### APPENDICES

Appendix	4	1	Emergency Notification Call List - Emergency Coordinator/STSC Communicator	13
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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 EPIP-02, "Emergency Classification" 2.1.1 EPIP-11, "Technical Support Center/Satellite TSC Activation" 2.1.2 EPIP-12, "Operations Support Center Activation" 2.1.3 EPIP-13, "Emergency Operations Facility Activation" 2.1.4 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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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	1
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2.1.19 EPIP-31, "Recovery"		,
2.1.20 EPIP-33, "Offsite Assistan	nce"	1.
2.1.21 71AC-92201, "Event Related	d Reporting"	
2.1.22 9N219.05.00, "Document/Red	cord Turnover Contr	rol"
2.2 Developmental References		/
2.2.2 NUREG-0654, Rev. 1, "Crite of Radiological Emergency Support of Nuclear Power I	Response Plans and	
2.2.2 PVNGS Emergency Plan, Rev	. 6	
3.0 LIMITATIONS AND PRECAUTIONS	/	
3.1 Continued surveillance and ass necessary to ensure that the appropriately revised as condi- information is obtained.	emergency classific	ation is
3.2 Notifications to State County Notification Call List-Emerger shall commence within 15 minut	ncy Coordinator/STS	C Communicator"
4.0 DETAILED PROCEDURE		
4.1 Personnel Indoctrination/Respo	onsibilities	
4.1.1 In an ALERT situation, lin material may occur and rad information may have to be and offsite consequences. ALERT includes activation centers. An ALERT calls in notification to offsite em The ALERT status is mainta	diological meteorol e obtained for asse The emergency res of onsite and offs for prompt initial mergency management	ogical essment of onsite ponse for an site emergency and follow-up organizations.

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- 2.1.19 EPIP-31, "Recovery"
- 2.1.20 EPIP-33, "Offsite Assistance"
- 2.1.21 71AC-92Z01, "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/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.

	IERGENCY PLAN	PROCEDURE NO. EPIP-04	
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	The Shift Supervisor or responsible for initiati actions of this procedur	ng and completing im	r shall be plementing
4.2 Prer	equisites		
4.2.1	The emergency has been c Classification."	lassified per EPIP-0	2, "Emergency
4.3 Inst	ructions		
4.3.1	The affected unit Shift : following:	Supervisor shall per	form the
		NOTE	
	Designated Unaffector to assume the role of Coordinator in the O Organization are:	ed Unit Shift Superv of the Emergency <u>Onshift</u> Emergency	isor
	Affected Unit Una Unit 1 Unit 2 Unit 3 Entire Site	affected Unit Shift : Unit 2 Unit 1 Unit 2	Supervisor
		Unit 1 ervisor of the design	
4.3.1.	HOULLY LE SAITE SUDE	IVISOF OF THE DESIGN	INTER UNATTOCTO

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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 dremed 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 telephone plant

> "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 UNITL 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 not set of the plant set of the p

"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 actio procedures have been	ns of the appropria implemented.	te Recovery
	e Emergency Coordinator llowing:	/Shift Supervisor s	hall perform the
4.3.2.1	Ensure activation of EPIP-11, "Technical S Activation."		
4.3.2.2	Implement additional Procedures according the emergency being c	to the situation th	at resulted in
4.3.2.3	Direct the Security D Offsite Emergency Org appropriate computer	anization personnel	the Onsite and by utilizing the
4.3.2.4	Direct the STSC Commu Engineer) to prepare Message Form" in acco Appendix F.	Appendix D, "Follow	up Emergency
4.3.2.5	Determine the need fo is necessary, direct required agency per E	a Communicator to c	ontact the
4.3.2.6	Reevaluate the emerger license actions as com procedure EPIP-02.	ncy classification nditions change by	and perform implementing
4.3.2.7	When the situation wa ALERT, proceed to app notification procedur to announce the reclar system and inform the	ropriate implementi es and direct the S ssification over th	ng and hift Supervisor e public address
4.3.2.8	Provide overall direc emergency response as Coordinator Response.	per Appendix I - E	the <u>ONSHIFT</u> mergency
Coc or App Sec	GS Security, after bein ordinator or STSC Commu- has occurred, or has be bendix B, "Emergency No- curity," and notify the cuation.	nicator that an ale een terminated, sha tification Call Lis	rt is in progress 11 complete t - PVNGS

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4.3.4 Ope	rations Support Center	(OSC) Activation	
4.3.4.1	The OSC Coordinator sh Support Center Activat		-12, "Operations
4.3.5 Eme	rgency Operations Facil	lity (EOF) Activation	on
4.3.5.1	The Emergency Operation EPIP-13, "Emergency Op	ons Director shall perations Facility .	implement Activation."
4.3.6 Eme	ergency Situation Termin	nated	
	. <u>N</u>	DTE	
	Sound the 'All Clear assembly and accounts initiated.		
4.3.6.1	The Shift Supervisor ensure the All Clear s (1) minute and that the over the plant wide to	signal is sounded f ne following announ	or approximately cement is made
	"ATTENTION ALL PERSON SITUATION DECLARED IN BEEN TERMINATED". (Prinstructions as necess	UNIT HAS NOW	
4.3.6.2	Ensure the announcement the Site Warning Sires	nt in step 4.3.6.1	
4.3.6.3	Ensure steps 4.3.6.1		
4.3.6.4	Direct the STSC Commun Engineer) to fill out Message Form," per in:	Appendix E, "Emerg	ency Termination
4.3.6.5	Direct the STSC Commun Engineer) to transmit		
4.3.6.6	At closeout or reduct S.S./E.C. shall notif or beeper written summary be pr eight (8) hours. S.S logs, control room lo for preparation of th	y the PVNGS Complian or control of the second secon	and request a authorities within the copies of shift

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4.3.7 Record Retention

4.3.7.1 Appendices A, B, C, D, E, 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 Turn Over Control."

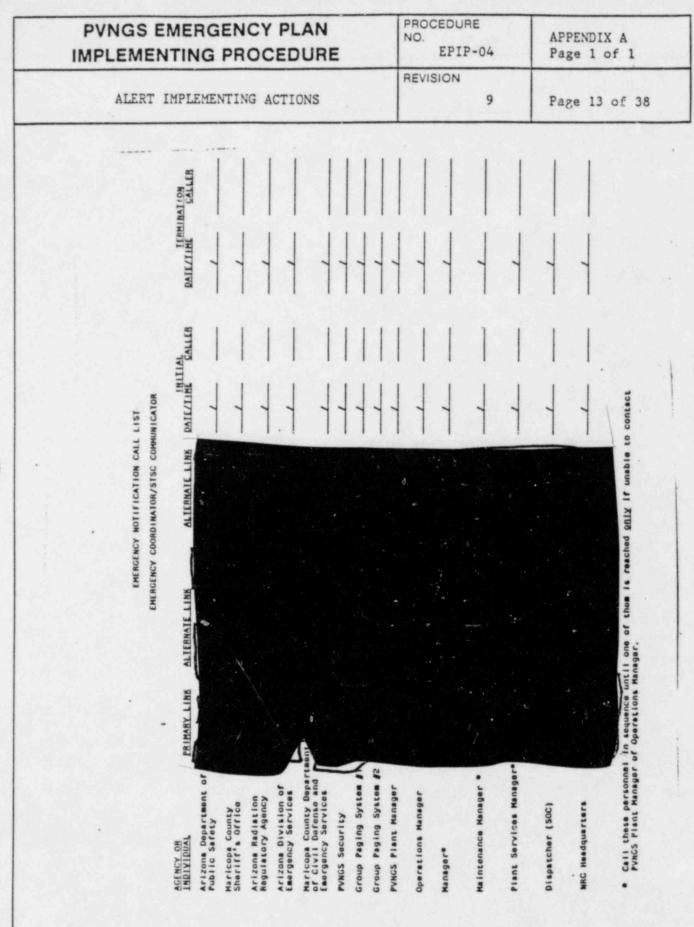
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ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 14 of 38
a	11	
PAIL/IFRMIMALION		
SSECURIT		
ALL LIST - PVNGS SEC		
DALEZ		
OTIFICATI		
ENERGENCY NOTIFICATION CALL LIST - PVNGS SECUNITY		
THINKING STATES	h	
. BAHIN	ur only.	
	ton orking to	
Security ruction S ministrat	Construct argancy ntar during v	
AGENCY OR INDIVIDUAL Corporate Security Site Construction Security Office Mucieer Administration AMPP Communications*	AMPP Site Construction Office* Bechtel Eergency Control Center Available during vorking hours only.	

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	PVNGS EMERGENCY PLAN MPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX C Page 1 of 1
	MPLEMENTING PROCEDURE		rage i or i
	ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 15 of 38
		NCY MESSAGE FORM F UNUSUAL EVENT, NCY, OR GENERAL EMER	GENCY
1. dea	IS PALO VERDE NUCLEAR GENERATING (ALERT) (SITE AREA EMERGENCY) (GE (circle applicab clared at Wind is f	STATION (NOTIFICATI NERAL EMERGENCY) le classification)	ON OF UNUSUAL EVEN
	(time) (date)		(speed)
	PALO VERDE AUTHENTICATOR		
	. (authent	icator letters)	
2.	This is, a Station Unit (name/title)	t the Palo Verde Nu	clear Generating
3.	(Circle One)		
	<ul> <li>(a) There is <u>NO</u>, repeat <u>NO</u>, radioac special protective actions are</li> <li>0</li> </ul>	tive release taking recommended at this R	place and no time.
	(b) There is <u>NO</u> , repeat <u>NO</u> , radioac operating limits and <u>NO</u> protect O	ive actions are reco	ess of allowable ommended at this t
	(c) There is <u>NO</u> , repeat <u>NO</u> , radioac time. However, the following p Sectors	tive release taking rotective actions a Distance ()	re recommended.
		P	
	(d) A radioactive release <u>IS</u> , repea people in affected sectors rema Sectors	t IS, taking place.	iows and doors clos
	0	P	
	(e) A radioactive release <u>IS</u> , repea evacuation of affected sectors Sectors	t IS, taking place.	
4.	THIS IS (IS NOT) A DRILL (Circle One	)	
	Approved		
	(SS/EC/EOD)	Date	Time

	NGS EMERGENCY		PROCEDURE NO. EPIP-04	APPENDIX D Page 1 of 3
			REVISION	
	ALERT IMPLEMENTING ACT	IONS	9	Page 16 of 3
	FOLLO	W-UP EMERGENC	Y MESSAGE FORM	
1.	Verbatim text of Messa A PALO VERDE NUCLEAR G concerning the (NOTIFI EMERGENCY) (GENERAL EM (cir	ENERATING STA' CATION OF UNU ERGENCY)	TION follow-up i	nformation messa RT) (SITE AREA
	declared at			
	(time)	(date)		
2.	This is (name/tit	le), at Pa	lo Verde Nuclear	Generating Stat
3.	Brief description of e	vent		
4.	Meteorological Data			
4.	Meteorological Data a. Wind direction fro	m( (direction)	degrees) - at (s	miles per ho peed)
4.		m (o (direction) to (sector)	(s	miles per ho peed)
4.	<ul> <li>a. Wind direction fro</li> <li>from</li></ul>	(direction) to(sector)	(s <del>)</del> 3	miles per ho peed)
4.	<ul> <li>a. Wind direction from</li> <li>from</li></ul>	(direction) to (sector) A B C D E F (	(s <del>)</del> 3	miles per ho
	<ul> <li>a. Wind direction from</li> <li>from</li></ul>	(direction) to (sector) A B C D E F ( (Circle One) Yes No	(s <del>)</del> 3	miles per ho peed)
5.	<ul> <li>a. Wind direction from</li> <li>from (sector)</li> <li>b. Stability Class:</li> <li>c. Precipitation</li> </ul>	(direction) to (sector) A B C D E F ( (Circle One) Yes No (Circle One)	(s <del>)</del> 3	miles per ho peed)

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IM	VNGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX D Page 2 of 3
	ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 17 of 3
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 Ci/second	
7.	Two-hour plume centerline projecte	d dose at:	
	Distance Sector Whole Body Dose (REM)	Child Thyroid Dose Commitment (REM)	
	Site Boundary		
	Boundary		
	Boundary 2 miles		
	Boundary		
	Boundary 2 miles		
	Boundary 2 miles		
8.	Boundary 2 miles 5 miles		
8.	Boundary 2 miles 5 miles 10 miles Plume arrival time offsite:2 mi		
8.	Boundary 2 miles 5 miles 10 miles Plume arrival time offsite:		
8.	Boundary  2 miles  5 miles  10 miles  Plume arrival time offsite: 2 mi 5 mi		

IMP	VNGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX D Page 3 of 3
	ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 18 of 3
10.	Following Emergency Measures Incl Recommended:	uding Protective Ad	ctions are
11.	The Following Emergency Response	Actions are Underwa	ıy:
12.	and a second state of the second state of the		
	We Request the Following Onsite S Sources:	upport and Assistar	ice from Offsite
13.	We Request the Following Onsite S Sources: Our Prognosis of the Emergency is		ace from Offsite
13.	Sources:	that Conditions:	
	Sources: Our Prognosis of the Emergency is Are Under Control Can be Expected to Termina	that Conditions:	
	Sources: Our Prognosis of the Emergency is Are Under Control Can be Expected to Termina Are Worsening	that Conditions: te Withinhour	
	Sources: Our Prognosis of the Emergency is Are Under Control Can be Expected to Termina Are Worsening Other Information: a) Power Prior to Event (%) b) Current Patter or Mode	that Conditions: te Withinhour	
	Sources: Our Prognosis of the Emergency is Are Under Control Can be Expected to Terminal Are Worsening Other Information: a) Power Prior to Event (%) b) Current Power or Mode c) Mode of Operation till Correct	that Conditions: te Withinhour	
14.	Sources: Our Prognosis of the Emergency is Are Under Control Can be Expected to Termina Are Worsening Other Information: a) Power Prior to Event (%) b) Current Patter or Mode	that Conditions: te Withinhour	

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX 2 Page 1 of 1
ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 19 of 3
EMERGENCY TERMINAT	TION MESSAGE FORM	
<ol> <li>Verbatim text of message: THI THIS IS PALO VERDE NUCLEAR GEN UNUSUAL EVENT) (ALERT) (SITE A (circle approprite classificat AT</li></ol>	NERATING STATION. THE AREA EMERGENCY) (GENERA tion) DECLARED HAS BEEN TERMI	(NOTIFICATION O AL EMERGENCY)
(Time) (Dat	ce)	
(Time) (Da	ite)	
2. This is		_, at Palo
(Name)	(Title)	
Verde Nuclear Generating Stati	ion Unit .	
3. PALO VERDE AUTHENTICATOR		ers)
3. PALO VERDE AUTHENTICATOR	(Authenticator Lett	ers).
		ers).
3. PALO VERDE AUTHENTICATOR		
Approved:	(Authenticator Lett	

	GS EMERGENCY PLAN EMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX F Page 1 of 3
A	LERT IMPLEMENTING ACTIONS	REVISION 9 Page 20 of 38	
	INSTRUCTIONS FOR COMPLET	TING APPENDIX C, D C	DR E
1.0	Initial Emergency Message Form	(Appendix C)	
1.1	Fill in data required by Step Emergency Message Form." Obt envelope marked on the outsid sequence number (if it is a d	ain Authenticator f	from the confidenti.
1.2	Obtain from the Radiation Pro Radiological Assessment Coord required to complete Step 3 o	inator (if EOF is a	
1.3	Circle appropriate wording of	Step 4 of Appendix	¢ C.
	NOT	E	
	When the NAN ring button appears that all the rec line or the ring has sto originating station shal in order listed below. day)	eiving stations are pped, the PVNGS 1 initiate a roll of	all
	NOT	E	
	If the NAN dedicated tel Appendix G, "Notificatio Radio Backup," for instr 8, KON-511, for notifica	n Alert Network (NA uctions on using ch	N)
1.4	By means of a single call on dedicated telephone, contact listed in Appendix A.	the Notification an the following State	nd Alert Net e/County agencies
	Duty Hours (8:00 a.m. to 5:00	p.m. Monday-Friday	7)
	Maricopa County Sheriff's Off Maricopa County Department of Arizona Department of Public Arizona Division of Emergency Arizona Radiation Regulatory	Civil Defense and Safety Services	Emergency Services

	GS EMERGENCY PLAN MENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX F Page 2 of 3	
A	ALERT IMPLEMENTING ACTIONS 9 Page 21 of 38			
	Off-Duty Hours (5:00 p.m. to 8 day Saturday, 3	:00 a.m., Monday-F Sunday and Holiday		
	Maricopa County Sheriff's Offic Department of Public Safety	ce		
1.5	In the event that an offsite go not answer the NAN phone or NAN or actual emergency, the nuclea shall notify the agency via reg in Appendix A).	N backup radio dur ar operator (or ST	ing a test, dril SC Communicator)	
1.6	When contact is made, the calls request that the individuals of Emergency Message Form.	er shall identify btain a copy of th	himself and e appropriate	
1.7		and request MCSO	he completed to read back	
1.8	Offer to repeat information and	i reiterate as nec	essary.	
	NOTE			
	To verify the group page ac pager installed in the STSC much as two (2) minutes may and the broadcast announcem	. Be aware that in lapse between di	as	
1.9	Notify additional personnel as and inform them of the situation for both Group Paging Systems N	on. Provide the fo	ollowing message	
	"THIS IS PVNGS, UNIT, O PLEASE RESPOND APPROPRIATELY once).	LASSIFICATION TWO	ge	
1.10	If an individual requests infor Emergency Message Form, make re give the information only after been made.	asonable efforts t	to obtain and	
1.11	Contact the NRC via the Emergen dedicated telephone within 60 m If the ENS fails, use the comme alternate line.	inutes of declaring	19 AD AMATRADOU	
1.12	When contact is made, the calle the completed Emergency Message Verde Authenticator)	er shall identify h Form verbatim (on	nimself and read bit the Palo	

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	GS EMERGENCY PLAN MENTING PROCEDURE	PROCEDURE NO. EPIP-04	AFPENDIX F Page 3 of 3	
		REVISION		
ALERT IMPLEMENTING ACTIONS 9 Page				
1.13	Offer to repeat information an	d reiterate as neo	cessary.	
2.0	Follow-up Emergency Message Form	(Appendix D)		
2.1	Fill in data required by Steps Emergency Message Form."	1-3 of Appendix I	), "Follow-up	
	NOTE			
	If the emergency is non-r steps 4-9 may be deleted.		ure,	
2.2	Obtain the Radiation Protection Assessment Coordinator (if ZOF complete Steps 4-9.			
2.3	Obtain the Emergency Coordinat Coordinator (if EOF is activat 10-14.			
2.4	Circle appropriate wording in a	Step 15.		
2.5	Dispense information when aske	d by offsite Agend	ies (NRC or ARRA	
3.0	EMERGENCY TERMINATION MESSAGE FO	RM (APPENDIX E)		
3.1	Fill in data required by steps Termination Message Form."	1-3 of Appendix E	. "Emergency	
3.2	Obtain approval from SS/EC/EOD			
3.3	Transmit termination per Appen	dix A.		
	NOTE			
	To verify the group page as pager installed in the STS much as two (2) minutes may and the broadcast announces	C. Be aware that y lapse between di	as	
3.4	When using the Group Paging System termination, use the following	stems to announce message:	event	
	"THIS IS PVNGS, UNIT PLEASE CANCEL RESPONSE TO	, EMERGENCY TERMIN EMERGENCY."	ATED.	

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX G Page 1 of 2	
ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 23 of 38	And in case of the local division of the loc

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.

- 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?" (MCDCD&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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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX G Page 2 of 2
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4. Upon completion of roll call, transmit the notification message verbatum. Take acknowledgement roll call, allowing MCSO to read the message back in its entirety, and provide assistance or clarification, as needed.

 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	Protective Actions
 Category	Recommandations

#### 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 responibility 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	11	Appendix I Page
STSC		1 - 4
TSC		5 - 8
TSC/EOF		9 - 11

INITIAL RESPONSE

- Receive notification from the Shift Supervisor and report to the Control Room of the affected unit.
- 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.
- Review plant status, initiating event, corrective actions and emergency classification with the Shift Supervisor per EPIP-02, "Emergency Classification."

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		EMERGENCY COORDIN	the second second second	
4.	Assu	me position of the <u>onshift</u> Emerg	gency Coordinator.	
5.		vate the Satellite STSC per EPH er/Satellite TSC Activation."	P-11, "Technical Sup	port
6.		ence notification process per Ap unicator to do so.	ppendix F <u>or</u> direct	the STSC
	(1)	Direct the Security Director to offsite Emergency Organization		onsite and
7.	Prov	ide plant wide public address an	nnouncement when the	STSC is activat
8.	Veri	fy personnel resources are on st	tandby in the OSC.	
9.		aluate the emergency classificat rgency Classification," reclass:		hange per EPIP-0
10.		ecessary, direct implementation -22, "Personnel Injury."	of EPIP-23, "Fire F	'ighting" and
	(1)	For a fire, dispatch the Fire 7 contact the Bechtel or alternat assistance (if required).		
	(2)	For personnel injury, contact of of the situation. Dispatch a l coordinate any required offsite	First Aid Team, if n	
11.	to s	rmine any additional protective tate and county response agencie elines."		
12.	As a	ppropriate, complete Follow-up 1	Emergency Message Fo	orm.
13.		rmine the need for offsite support location(s) in EPIP-33, "Offsite		

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX I Page 3 of 11	7
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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 prepare 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 EP1P-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 <u>onsite</u> Emergency Coordinator, provide a briefing and transfer responsibilities.

#### OSC Activation

- 20. If a release is occuring, 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 Coordator 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 necessry 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 Proection 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 evalute 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 PYNGS Compliance at ext. o provide written summary within 8 hours to offsite authorities. Provide documentation as requested.

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#### EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

#### INITIAL RESPONSE

- Receive notification from the <u>onshift</u> Emergency Coordinator and report to TSC. Upon arrival, sign in on the TSC Staffing Board.
- Receive a briefing from the <u>onshift</u> Emergency Coordinator and assume responsibilities.
- 3. Brief TSC staff and evalute 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

- Reevaluate the emergency classifications conditions change per EPIP-02, "Emergency Classification," reclassify as necessary.
- As necessary, direct implementaion of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
  - 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 pesonnel 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

- 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.
- Be prepared to implement EPIP-21, "Search and Resue," by provicing necessary data to the OSC Coordinator (via Emergency Maintenance Coordinator).
- 14. Receive report on site area accountability.

#### Emergency Exposures and KI

- Per EPIP-18, "Emergency Exposure Guidelines" and as neccessary, 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 occuring, consult Appendix B of EPIP-12, "Operations Support Center Activation" to determine habitability of primary OSC.

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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 Coordator 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."

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX I Page 8 of 11	
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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."

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Event Termination or Reduction

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

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX I Page 9 of 11
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#### EMERGENCY COORDINATOR RESPONSE TSC AND EOF ACTIVATED

#### INTIAL RESPONSE

- Receive notification from the <u>onshift</u> 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.
- Receive a briefing from the <u>onshift</u> Emergency Coordinator and assume responsibilities.
- 3. Brief TSC staff and evalute 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.
- 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

- Reevaluate the emergency classifications conditions change per EPIP-02, reclassify as necessary.
- As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
  - 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 pesonnel 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	PVNGS EMERGENCY PLAN WPLEMENTING PROCEDURE	NO. EPIP-04	APPENDIX I Page 10 of 11
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	EMERGENCY COORDINA TSC AND EOF AG	the second second second second second	
9.	Determine the need for offsite support locations(s) in EPIP-33, "Offsite Ass Security Director per EPIP-24, "Secur Administration and Logistics Coordina <u>Personnel Assembly and Account</u> (If Assembly/Accountability Pe	sistance" and arran rity," and coordina ator at the EOF. cability	ige access with t
10			
10.	Within 30 minutes of the accountabili accountability in the protected area	ity signal, receive from the Security	a report on Director.
11.	Be prepared to implement EPIP-21, "Se necessary data to the OSC Coordinator Coordinator).	earch and Rescue," (via Emergency Ma	by providing intenance
12.	Receive report on site area accountab	oility	
	Emergency Exposures and KI		
13.	Per EPIP-18, "Emergency Exposure Guid emergency exposures.	lelines" and as nec	cessary, authori
14.	As necessary, authorize administratic workers desiring to use it. Consult Coordinator.	on of KI per EPIP-2 with the Radiologi	6 to emergency cal Protection
	OSC Activation		
15.	If a release is occuring, consult EPI Activation" to determine habitability	P-12, "Operations of primary OSC.	Support Center
16.	If uninhabitable, direct the OSC Coor equipment/supplies to the alternate O also uninhabitable, direct the OSC Co area (Control Room/ STSC, TSC or EOF)	SC (Service Buildi ordator to relocat	ng) If this is

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX I Page 11 of 11	
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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.
- 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)

 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."

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#### Event Termination or Reduction

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

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURG NO. TP-04	AFPENDIX J Page 1 of 2
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STSC COMMUNICAT	OR RESPONSE	
POSITION FILLED BY:		
Nuclear Operator	from affected unit	
RESPONSIBILITY: Initiate the notifica onshift Emergency Coo communications equipm	ordinator. Ensure op	erability of
IMMEDIATE ACTIONS		
STSC Activation		
1. Report to the STSC upon notification	L.	
Notification of ALERT, S GENERAL EME		
<ol> <li>Complete the Initial Emergency Messa Emergency Coordinator or Shift Super</li> </ol>		by the <u>Onshift</u>
3. Initiate notification process per Ap Coordinator (or Shift Supervisor in		i by the Emergency
4. Inform the Emergency Coordinator whe	en initial notificati	ions are complete.
<ol><li>Contact the Security Director and in personnel if so directed by the Emer</li></ol>		additional
<ol> <li>Prepare the Follow-up Emergency Mess Coordinator.</li> </ol>	age Form as directed	i by the Emergency
* 7. Provide follow-up information when r	requested by the Stat	ce/County agencies

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX J Page 2 of 2
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Notification of ALERT, SITE AREA EMERGENCY, GENERAL EMERGENCY

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

#### Offsite Assistance

- Contact required offsite assitance (EPIP-33, "Offsite Assitance", Appendix
   A) via telephone if directed by the Emergency Coordinator.
- 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 ORGAN ZATION

- 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.

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15. Notify the Emergency Coordinator when responsibilities have been transferred to the Government Liaison Engineer.

*Continuing Activity.

CONTROLLED DOCUMENT LIST I

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EPIP-02	EMERGENCY CLASSIFICATION	04	850827	C1-03	Y	806827	z
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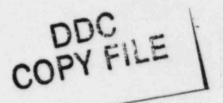
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PROCEDURE CHANGE NOTICE

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2a.Manager concurrence	REVPCN_/DATE
3. REASON FOR PCN: To update Protective Action arrest regulatory guidelines.	Recommendations to reflect
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5. AFFECTED STEPS: Appendix A, pg 2.	CHANGE REQUIRED: Délete page 11; Insert 11a
6. PREPARED BY: Meralda Armele 12/23/85	ENTERED IN PROCEDURE BY:
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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 <u>RECOMMENDATIONS</u>. Only these agencies are authorized to implement the protective actions.

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3.2	Protective action recommendation containment conditions and the when no release is in progress transmitted to government offi "NOTIFICATION OF UNUSUAL EVENT "ALERT Implementing Actions," Implementing Actions," or EPIN	ese recommendations . These recommend icials using EPIP-0 Implementing Action or EPIP-05, "SITE P-06, "GENERAL EMER	are made even ations are 3, ons," EPIP-04, AREA EMERGENCY GENCY
3.3	Amplementing Actions," depend: Protective action guides repre-	esent trigger level	-/-
3.4	intended to represent acceptable PAGs for the general public as	re given in ranges.	
	dose values should be used if constraints in providing prote constraints max, however, make use, but in no case should the determining a need for protect	ection at this leve a the lower values a higher value be e	1. Local impractical to
3.5	The projected dose and affected curies released, release rate, isotopic mixture of the release and meteorological conditions	duration of the reference (varies with eff	elease,
3.6	At times, selection of protect subjectively as conditions be exist.	void the score of t	l be considered this procedure
3.7	The protective action recomment actual loss of physical control mile evacuation.	ndation for potenti ol of the facility	al and/or is a 360°, 2
3.8	When the wind is blowing into P or Q) and protective actions sectors on either side of the included in the recommendation shall require consideration of recommendation.)	s are being conside affected sector st n (e.g., a plume in	ared, the two all be sector P
3.9	Protective actions recommender SHALL NOT be transmitted to the	d to state authorit he JENC.	ies by ANPP
8.10	Government officials should in implementing protective action	nform EC/EOD prior ns.	to
3.11	If actual airborne radioactiv results are available (either field measurements) this info dose projections for making p	from RMS filter as rmation may be used	alysis or instead of

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4.1 Per	sonnel Indoctrination/Respo	onsibilities	
4.1.1	Dose estimates which popul receive, are calculated in "Initial Dose Assessment". to as the projected dose. action taken to avoid or no the benefits derived from offset any undesirable fea	A accordance with E This dose estima A protective active reduce this project such action are su	PIP-14B, te is referred on is an ted dose when officient to
4.1.2	The Protective Action Guid projected dose to individu warrant taking protective effort to minimize the ris occurring or has already o	als in the populat actions. It is us sk from an event wh	ion which ed in an
4.1.3	The responsibility for the recommend protective action authorities belongs to the is relieved of this respon Operations Director.	ons to the appropri e Emergency Coordin	late nator until he
4.1.4	The Radiation Protection f shall be responsible for a and/or projections.		
4.1.5	The Radiation Assessment ( Monitor, on shift) shall refining dose assessments locations and evaluating (	be responsible for for critical recep	updating and otor site
4.1.6	The Radiological Protection Assessment Coordinator) sindose assessment and protection Emergency Coordinator (Emergency Coordinator (Emerg	hall be responsible ctive action evaluation	e for relaying ations to the
4.2 Pre	erequisites		
4.2.1	Projected whole body and dose for critical recepto calculated in accordance warrant evaluating, and i protective actions.	r site locations have with EPIP-14B, and	ave been such doses

+

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-15	
PROTECTIVE ACTION GUIDELINES	REVISION 3	Page 7 of 15

4.3 Instructions

4.3.1 Radiological Assessment Coordinator (Radiation Protection ' Monitor, onshift) shall: 3

- 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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	RGENCY PLAN	PROCEDURE NO. EPIP-15	
		REVISION	
PROTECTIVE ACTION	GUIDELINES	3	Page 8 of 15
4.3.3.1	If evacuation is comp then evacuation is 100 determine the time of necessary to calculat The plume arrival time	0 percent effective exposure to the pl e the plume arrival	ume, it is time T(PA).
	$T(PA) = T_B + T_{TR}$		
	Where:		
	T _B = Time proje	cted before release	begins.
	T _{TR} = Time proje	cted for plume trav	el for given
		and downwind distan elease. To calcula	
		re EPIP-14B.	IX
4.3.3.2	Evaluate constraints estimated evacuation plume arrival time, T	time T(EV) with the	Compare the estimated
4.3.3.3	Under the following c of sheltering vs. the	ondítions evaluate benefits of evacua	the benefits ation.
	<ol> <li>In cases where th to the arrival of</li> </ol>	ere is no time to e the plume.	evacuate prior
	(2) The projected eva plume arrival are	cuation time and ti nearly equal.	lme before
4.3.3.4	If evacuation appears in dose (greater than to the appropriate co	sheltering) recomm	end evacuation
4.3.4 Sh	eltering Effectiveness		
4.3.4.1	If evacuation does no avoidance or if local recommend that offici to:	constraints preven	it evacuation
	(1) Seek shelter.		
	(2) Close windows.		
	(3) Turn off ventilat	ion systems.	

(4) Seal cracks in doors with wet rags.

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	RGENCY PLAN	PROCEDURE NO. EPIP-15	
		REVISION	
PROTECTIVE ACTION	GUIDELINES	3	Page 9 of 15
4.3.4.2	Control access to the	affected area.	,
4.3.5 Eva pas	luate the possibility of sed.	of evacuation after	the plume has'
4.3.5.1	After the plume has pa of ground deposition i "Onsite/Offsite Survey	in accordance with 1	significance EPIP-17,
4.3.5.2	Determine if dose rate subsequent evacuation.	es are sufficient to	o warrant
4.3.5.3	Multiply the projected factor (Appendix B).	dose by the extern	nal shielding
4.3.5.4	Compare the projected gamma dose (Appendix A	dose to the PAG for A).	r whole body
fac	luate the significance tors for inhalation dos Shielding factors are	ies are presented in	Appendix
4.3.6.1	Multiply the projected shielding factor to de inhalation dose from t dose to the PAG for th	termine the reduct: the plume. Compare	ion in the projected
the	ermine the critical org thyroid. Compare the an to the PAG for that	projected dose for	the critical
en an an the second second Second second			

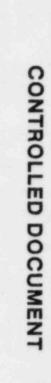
	GUIDEDINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR GASEOUS PLUME EXPOSURE CONDITION RECOMMENDED ACTION	PROTECTIVE	IMPLEMENTING
1.	Notification of Unusual Event declared indicating that events are to progress which indicate potential degradation of the level of safety of the plant; however no release of radioactive material requiring offsite response/monitoring is expected unless further degradation of safety systems occurs.	PROTECTIVE ACTION GUIDELINES	ENTING PROCEDURE
2.	An alert has been declared; any releases are expected to be limited to small frac- tions of the EPA/PAG exposure levels at the site boundary unless further degrada- tion of safety systems occur.		RE
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 2 mile radius of the plant and within 10 miles in affected sectors as warranted based on lant/containment conditions.		NO. EPIP-15 REVISION
*NOTE	: References for this table are a combination of Table 5.1, page 5.31, Rev. 6/80 - Manual of Protective Action Goldes and Protective Actions for Nuclear Incidents and NUREG-0654, published 11/80.	ω	5
•	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. $\overrightarrow{PCN}$	Page 10 of 15	APPENDIX A Page 1 of 4

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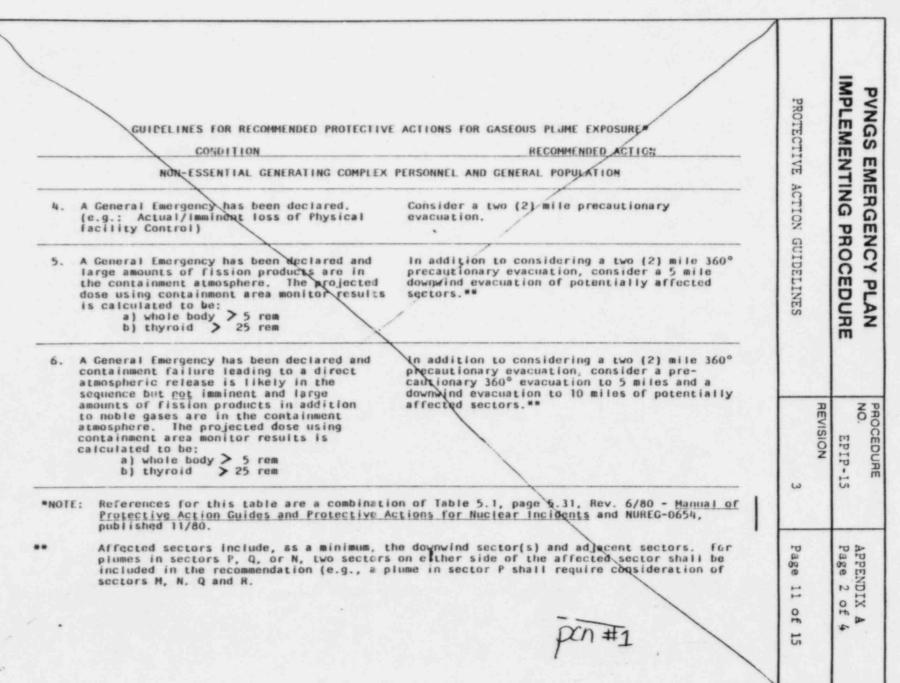
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	CONDITION	RECOMMENDED ACTION	명	L Z
۱.	Notification of Unusual Event declared; events are in progress which indicate potential degradation of the level of safety of the plant; however no release of radioactive material requiring off- site response/monitoring 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.	PROTECTIVE ACTION GUIDELINES	IMPLEMENTING PROCEDURE
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 noless fur- ther 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.	GUIDELINES	ROCEDURE
	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.	HE	
	A General Emergency has been declared as per EPIP-02, "Emergency Classifi- cation."	Shelter within 2-mile radius and 5 miles in potentially affected sectors.**	HEVISION 3	NO. EPIP-15
wor	E: References for this table are a combin Manual of Protective Action Guides and and NUREG-0654, published 11/80,	ation of Table 5.1, page 5.31, Rev. 6/80 Protective Actions for Nuclear Incidents		
• • N()	TE: Affected sectors include, as a minimu sectors. For planes in sectors P. 0.	or N, two sectors on either side of the the recommendation (e.g., a plume in sector	Page 10a o	APPENDIX A Page 1 of

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	GUIDELINES FOR RECOMMENDED PROTECTIVE	ACTIONS FOR GASEOUS PLUME EXPOSURE*	PROTECTIVE	IMPLEMENTING
-	NON-ESSENTIAL GENERATING COMPLEX P			NT
4.	A General Imergency has been declared. [e.g.: Actual/Imminent loss of Physical lacility Control]	Recommend shelter within a 2 mile radius and out to 5 miles within potentially affected sectors. Consider a 2 mile precautionary evacuation.	ACTION G	INTING PRO
5.	A General Emergency has been declared and large amounts of flssion 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.**	GUIDELINES	PROCEDURE
6.	atmospheric release is likely in the sequence but not imminent and large	In addition to considering a two (2) mile 360° precautionary evacuation, consider a pre- cautionary 360° evacuation to 5 miles and a downwind evacuation to 10 miles of potentially affected sectors.**		
	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		HEVISION	NO. EPIP-
*NOT	<ul> <li>b) thyroid &gt; 25 rem</li> <li>References for this table are a combination Protective Action Guides and Protective Act published 11/80.</li> </ul>	of Table 5.1, page 5.31, Rev. 6/80 - Manual of ions for Nuclear Incidents and NUREG-0654,	ιJ	15 T
	plumes in sectors P. Q. or N. two sectors o	downwind sector(s) and adjacent sectors. For n either side of the affected sector shall be me in sector P shall require consideration of	Page X of 15	APPENDIX A Page 2 of 4

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# CONTROLLED DOCUMENT

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	CONDITION	RECOMMENDED ACTION
5.	EPA Protective Action Guidelines are projected to be exceeded.	In accordance with EPA Protective Action Guidelines:
	a) whole body > 1 rem to $\leq 5$ rems thyroid > 5 rems to $\leq 25$ rems	Recommend shelter, as a minimum, for affected sectors ^{k3} 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.
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.**
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. ⁶⁹
1.	Imminent containment failure is pro- jected such that a "puff" release greater than design leak rate willows occur, in conjuction with 2. or 2. above. 6 7	Shelter for areas that cannot be evacu- ated before plume arrival; evacuation of remainder of 5-mile radius and 10-mile in potentially affected sectors.**

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 K).

and NUREG-0654, published 11/80.

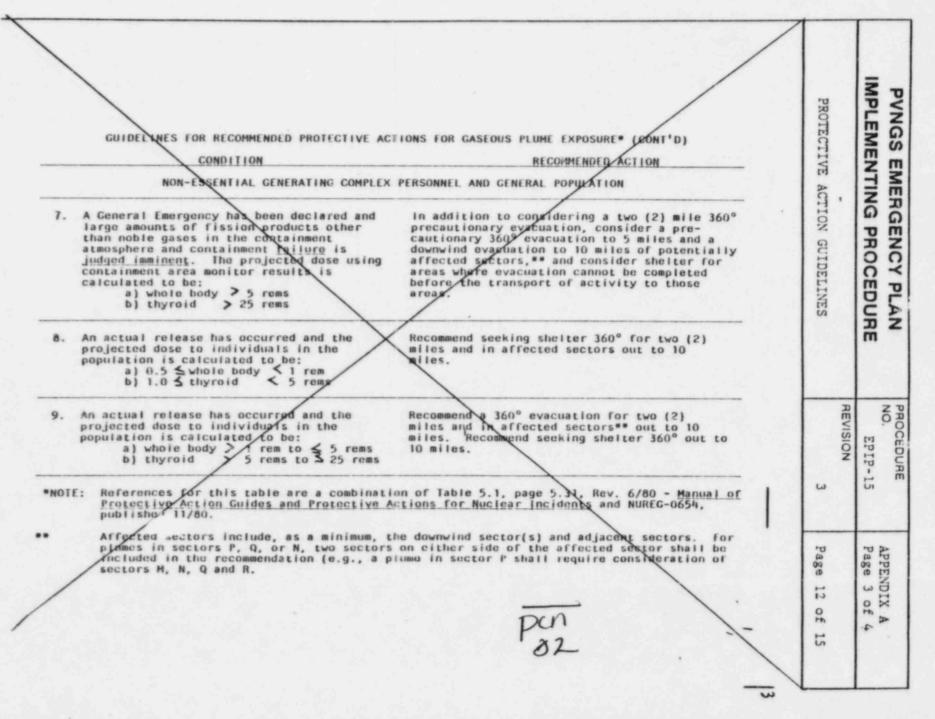
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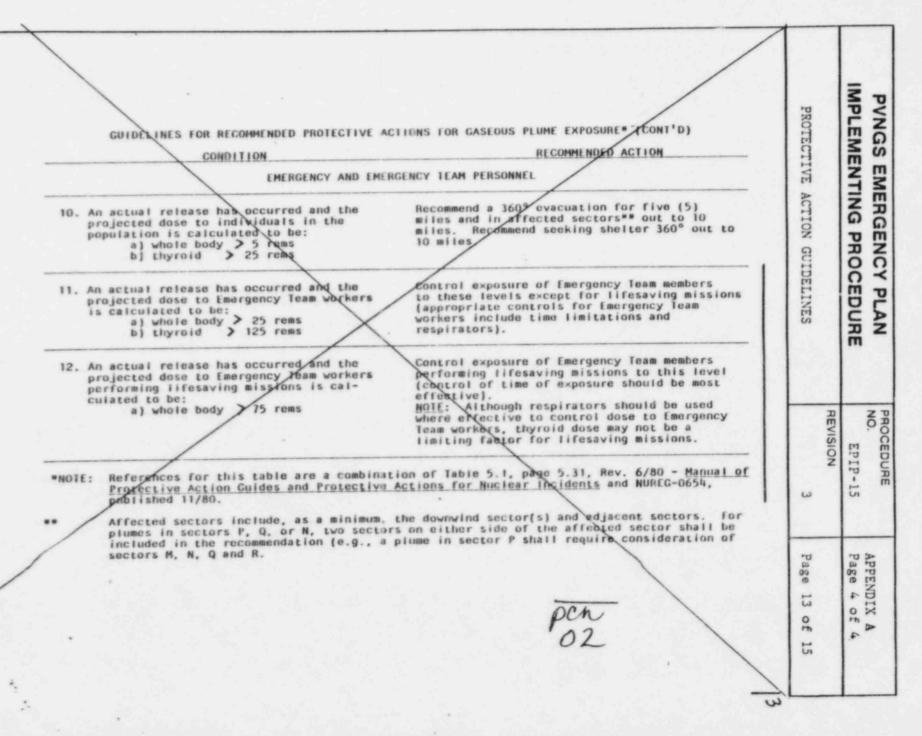
PROTECTIVE ACTION GUIDELINES	IMPLEMENTING PROCEDURE
REVISION	PROCEDURE NO. EPIP-15
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CONTROLLED DOCUMENT

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REDUCTION IN EXTERNAL GAMMA DOSE FROM PASSING CLOUD

TR	JCTURI	E OR LOCATION	SHIELDING AVERAGE	FACTOR	
	(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 :

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- (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).

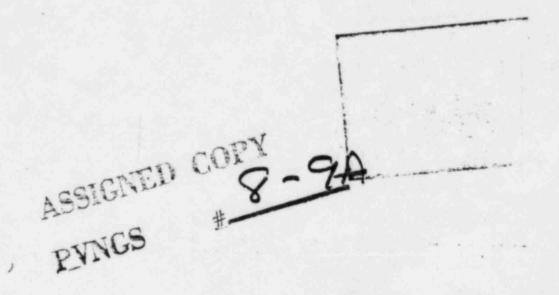
PVNGS EMERGENCY FLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-15	APPENDIX C Page 1 of 1
PROTECTIVE ACTION GUIDELINES	REVISION 3	Page 15 of 1
INHALATION SHIELDING FACTORS I SNUG DOORS, CLOSED W	FOR A WOOD HOUSE VINDOWS	i,
(3 mph (3.5 M/S)		<u> </u>
A mp (1.3.5 .6 .4 .1 .3.5 Wind Spe	:/5)	
(JUISNI .4	ed = 1 mph (	447 11/5)
BIS .2	ph = 0.447 M/	s I

EXPOSURE TIME (HRS)

ASSIGNED COPY PROCEDU	URE CHANGE NOTICE
PVNCS #8-9A	PAGE O INTENT CHANGE: NO YES
PROCEDURE TITLE _ Sile Area Emergency -	Implementing Actions
PROCEDURE NUMBER EPIP.05	REV. 9 PCN
Manager concurrence NA to exceed 5 PCNs	DATE
REASON FOR PCN: To update Protective A guidance front in ZEIN 53-28. A during events.	added statement concerning the EUS manning
EXFIRATION:	
AFFECTED STEPS: <u>Appendix 4</u> <u>Page 6, section 3.0</u>	CHANGE REQUIRED: Delete page 6 ; Insert 24a Delete page 6 ; Insert Ga
PREPARED BY: Secult a Armicle 2/25	ENTERED IN PROCEDURE BY:
Heinella Armielo 2/25 SIGNATURE I TEMPORARY APPROVAL:	/
Heald a Armicho 2/25 SIGNATURE I TEMPORARY APPROVAL:	18%

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SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 1 of 39



DEPT. HEAD Them & Bulin' for Dennis Your DATE 12/4/85 PRB/PRG/TRRG REVIEW AND ALLINGILL DATE 1/2/86 APPROVED BY DATE 1/6/86 EFFECTIVE DATE 9111

DN-1600A/0787A

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#### REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
5	3/4/85	all	Revised callouts and
			announcements. Added NAN
			Backup instruction Appendix.
			Added emergency coordinator
			checklists.
6	4/9/85	App. A & B	Revised to incorporate PCN
			#01 of Rev. 5. PCN
			corrected phone #s in App.
			<u>A</u> & B.
7	01.15.66	3, 7, 8, 9,	Added termination message
		10, 11, 13,	form and instructions. Added
		14, 17, 18,	note to provide guidance
		19, 20, 22,	on notifications. Changed
		24, 25 and 28	sequence of notifications in
			App. A. Updated references
			to all appendices. Capital
			announcements to make easier
		<u> </u>	to identify.
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#### REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
8	09/10/85	4, 6, 9, 10,	Incorporated PCN #1 of
		11, 12, 13,	Rev. 7. Added new phone #'s
		20, 21, 25,	STSC Communicator checklist
		26, 30, 33,	and specific instructions
		34, 37, 38,	for announcements.
		39	
9		4, 8, 9, 10,	Incorporated PCN #1 and 2 of
		11, 12, 13,	Rev. 8. Deleted
		14, 15, 17,	Time/Initials column in
		18, 25, 26,	Appendices I and J.
		27, 28, 29,	
		30, 31, 32,	
·		33, 34, 35,	
		36, 37, 38,	
		39	
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	<ul> <li>4.1 Personnel Indoctrination/Responsibilities</li> <li>4.2 Prerequisites</li> <li>4.3 Instructions</li> </ul>	6 7 7

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#### 1.0 OBJECTIVE

 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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<ul> <li>2.1.20 EPIP-33, "Offsite Assistan</li> <li>2.1.21 71AC-9ZZO1, "Event Related</li> <li>2.1.22 9N219.05.00, "Documentation</li> <li>2.2 Developmental References</li> <li>2.2.1 NUREG-0654, Rev. 1, "Crited of Radiological Emergency Support of Nuclear Power I</li> <li>2.2.2 PVNGS Emergency Plan, Rev.</li> <li>3.0 LIMITATIONS AND PRECAUTIONS</li> <li>3.1 Continued surveillance and assist necessary to ensure that the empropriately revised as condition formation is obtained.</li> <li>3.2 Notifications to state/county Notification Call List-Emergence</li> </ul>	d Reporting" on/Record Turnover eria for Preparatio Response Plans and Plants" . 6 sessment of plant c emergency classific itions change or mo agencies per Appen	n and Evaluation Preparedness in onditions are ation is re definitive dix A, "Emergency C Communicator"
<ul> <li>4.0 <u>DETAILED PROCEDURE</u></li> <li>4.1 Personnel Indoctrination/Response</li> <li>4.1.1 In a SITE AREA EMERGENCY, material may occur. Any response boundary. Considerate actions, based on actual of site boundary. Considerate actions, based on actual of All onsite evacuation will be station shall provide update information to offsite emer The SITE AREA EMERGENCY state event is terminated or responsible for initiating actions of this procedure.</li> </ul>	onsibilities substantial releas releases are not ex deline exposure lev tion of appropriate or projected data, ergency centers are initiated if appro ated radiological/m ergency management tatus shall be main classification take mergency Coordinato g and completing th	es of radioactive pected to exceed els beyond the protective is warranted. activated. priate. The eteorological organizations. tained until the s place. r shall be

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- 2.1.20 EPIP-33, "Offsite Assistance"
- 2.1.21 71AC-92201, "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.

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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 <u>Onshift</u> Emergency Organization are:

Affected	Unit	Unaffected	Unit	Shift	Supervisor
Unit 1			Ur	it 2	
Unit 2			Un	it 1	
Unit 3			Un	it 2	
Entire	Site		Ur	it 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 repeate 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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4.3.1.4 Ensure the accountability signal is sounded for approximately one minute.

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		REVISION 9	Page 9 of 39	
4.3.1.5	Silence the signal and is made over the plan			
	EMERGENCY SITUAT AREA EMERGENCY E ASSEMBLY AND ACC PROGRESS. ALL A RESPONSE PERSONN YOUR EMERGENCY L PERSONNEL REPORT	OUNTABILITY ARE NOW FFECTED UNIT EMERGE EL AND ALTERNATES F OCATION. ALL OTHER TO YOUR ASSIGNED A instructions on re	SITE IN NCY EPORT TO SSEMBLY	
4.3.1.6	Ensure the announceme the Site Warning Sire	nt in step 4.3.1.5 n/Public Address Sy	is repeated over vstem.	
. 4.3.1.7	Ensure the accountabi announcement in steps	lity signal is reso 4.3.1.5 and 4.3.1	ounded and the .6 is repeated.	
4.3.1.8	Ensure that actions o procedures have been		recovery	
4.3.2 The	Emergency Coordinator	shall perform the	following:	
4.3.2.1		f the satellite TSC in accordance with Support Center/Satellite TSC		
4.3.2.2	Following accountabil initiate EPIP-19, "On	ility, and if conditions warrant, Onsite Evacuation."		
4.3.2.3	Procedures according	ditional Emergency Plan Implementing coording to the situation that resulted in y being classified as a SITE AREA EMERGENCY.		
4.3.2.4		y Director to call in Onsite and Organization personnel by utilizing the er call-out listing.		
4.3.2.5	Direct the STSC Commu Engineer) to prepare	Appendix D. "Follo	ment Liaison w-up Emergency	

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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 <u>ONSHIFT</u> 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 not

"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.

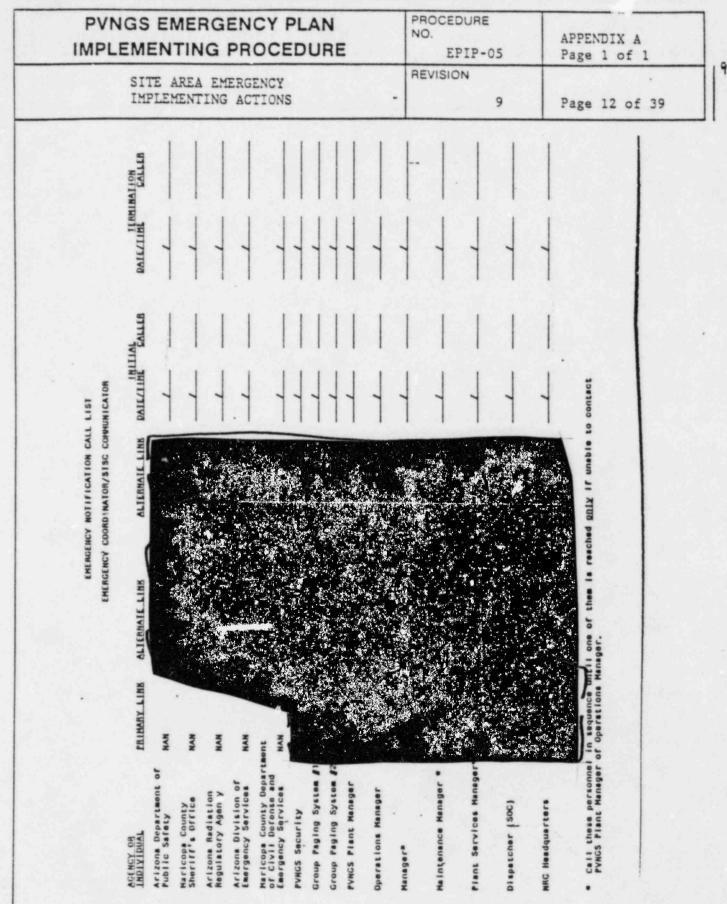
9

- 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. For beeper no. For or or beeper no. For or 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

Hex

4.3.7.1 Appendices A, B, C, D, E, 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."

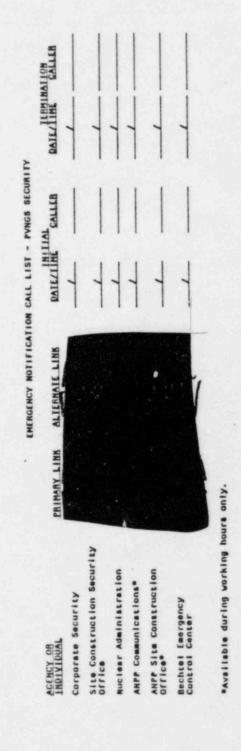


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SITE AREA EMERGENCY	REVISION		
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22. 4

F	VNC	GS EME	RGENCY P	LAN	PROCEDURE NO.	APPENDIX C
IM	PLE	MENTI	NG PROCE	DURE	EPIP-05	Page 1 of 1
		STTE ADD	A EMERGENCY		REVISION	
			TING ACTIONS		9	Page 14 of 39
t.			NOTI	FICATION OF U	MESSAGE FORM NJSUAL EVENT, , OR GENERAL EM	ERGENCY
1.	IS	PALO VEL	RDE NUCLEAR G ITE AREA EMER	ENERATING STA RGENCY) (GENER	(IS NOT) A DRILL TION (NOTIFICAT AL EMERGENCY) classification	!! (Circle One) <u>TH</u> ION OF UNUSUAL EVE )
decla	ared a	at (time)	) (date)	Wind is from	degrees	- Atmph. (speed)
P	ALO	VERDE AU	THENTICATOR _		and the strength of the	
				(authentica	tor letters)	
S	statio	is	(name/title)	, at the	e Palo Verde Nuc	lear Generating
3. (	Circ	le One)				
(	(a) 1 H	There is protectiv	<u>NO</u> , repeat <u>N</u> we actions ar	e recommended	ve release takin 1 at this time.	g place and no spe
(	(b) 1 c	There is operating	NO, repeat N g limits and	OR 10, radioactiv NO protective OR	ve release in ex action recomme	cess of allowable ndations at this t
(	(c) 1 1	However,	the followin	0, radioactiv	ve release takin actions are rec Distance	g place at this ti ommended. (Miles)
				OR		
(	(d) /	A radioa people in	ctive release a affected se Sectors	<u>IS</u> , repeat <u>l</u> ectors remain	<u>S</u> , taking place indoors with wi Distance	. We recommend the ndows and doors cl (Miles)
(	(e) /	Aradioa	tive release	OR IS TADAAT	S taking al	. We recommend th
		evacuati	on of affecte Sectors	d sectors be	considered. Distance	
4. I	THIS	IS (IS N	OT) A DRILL!!	(Circle One)	,	
	pprov	red				

	VNGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX D Page 1 of 3
	SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 15 of 3
1.	FOLLOW-UP EMERGENC Verbatim text of Message: THIS I THIS IS A PALO VERDE NUCLEAR GENE message concerning the (NOTIFICAT	S (IS NOT) A DRIL RATING STATION fo TION OF UNUSUAL EV	llow-up informati
	AREA EMERGENCY) (GENERAL EMERGENC (circle applica declared at (time) (date)	ible classificatio	n)
2.		Palo Verde Nuclea	r Generating Stat
3.	Brief description of event		
3.	Brief description of event		
	Meteorological Data		
		(degrees) - at (	
	Meteorological Data a. Wind direction from (direction from to	(degrees) - at ( i) ( tor) F G	miles per hor
	Meteorological Data a. Wind direction from fromto (sector) to(sector) b. Stability Class: A B C D E	(degrees) - at ( tor) F G Dne)	miles per hor
4.	Meteorological Data a. Wind direction from from to (direction from to (sector) to b. Stability Class: A B C D E (Circle C c. Precipitation Yes No	(degrees) - at ( tor) F G Dne)	miles per hor
4.	Meteorological Data a. Wind direction from	(degrees) - at ( tor) F G Dne)	miles per hor

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INAC	NGS EMERGENCY PLAN	PROCEDURE NO.	APPENDIX D
TIALL	LEMENTING PROCEDURE	EPIP-05	Page 2 of 3
	SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 16 of 3
	b Polosso Time		
۵.	b. Release Time		
	c. Reactor Trip Time		
4	d. Location/Source of Release Current Release Rates		
0.		ti /second	
	a. I-131 Equivalent ( b. Noble Gas (	Ci/second	
	c. Particulates(	Ci/second	
7.	Two-hour plume centerline projected	d dose at:	
	Distance Sector Whole Body	Child Thyroid	
	Dose (REM)	Dose Commitment (REM)	
	Site		
	Boundary		
	Boundary		
	Boundary 2 miles		
8,	Boundary 2 miles 6 miles		
8,	Boundary 2 miles 6 miles 10 miles Plume arrival time offsite: 2 mi		
8,	Boundary 2 miles 6 miles 10 miles Plume arrival time offsite:		
8,	Boundary  2 miles  6 miles  10 miles  Plume arrival time offsite:  2 mi 5 mi	51	

	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX D Page 3 of 3
	SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 17 of 39
۱.	The Following Emergency Measures Incl	uding Protective A	ctions are Recommen
	The Following Emergency Response Action	ons are Underway:	
	and the second	A Se in similar	
	We Request the Following Onsite Suppo	rt and Assistance	from Offsite Source
			from Offsite Source
	We Request the Following Onsite Suppo Our Prognosis of the Emergency is tha Are Under Control Can be Expected to Terminate Wi Are Worsening	t Conditions:	from Offsite Source
1.	Our Prognosis of the Emergency is tha Are Under Control Can be Expected to Terminate Wi	t Conditions:	from Offsite Source
1.	Our Prognosis of the Emergency is tha Are Under Control Can be Expected to Terminate Wi Are Worsening	t Conditions: thin hours.	from Offsite Source

SITE AREA EMERGENCY IMPLEMENTING ACTIONS       REVISION         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 O UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY) (circle approprite classification) DECLARED AT	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX E Page 1 of 1
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 O UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY) (circle approprite classification) DECLARED AT			Page 18 of 3
1. Verbatim text of message: THIS IS (IS NOT) A DRILL!! (Circle One) THIS IS PALO VERDE NUCLEAR GENERATING STATION. THE (NOTIFICATION O UNUSUAL EVENT) (ALERT) (SITE AREA EMERGENCY) (GENERAL EMERGENCY) (circle approprite classification) DECLARED AT			1
(Time) (Date) 2. This is, at Palo (Name) (Date) Verde Nuclear Generating Station Unit 3. PALO VERDE AUTHENTICATOR (Authenticator Letters) Approved:	<ol> <li>Verbatim text of message: THIS I THIS IS PALO VERDE NUCLEAR GENERA UNUSUAL EVENT) (ALERT) (SITE AREA (circle approprite classification AT</li> </ol>	S (IS NOT) A DRILL! TING STATION. THE EMERGENCY) (GENERA ) DECLARED	(NOTIFICATION O L EMERGENCY)
Verde Nuclear Generating Station Unit 3. PALO VERDE AUTHENTICATOR (Authenticator Letters) Approved:	(Time) (Date) 2. This is		_, at Palo
(Authenticator Letters)			
		(Authenticator Lett	ers)
(SS/EC/EOD) Date/Time			
		Date/T	ime
		Date/T	ime

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. • EPIP-05	APPENDIX F Page 1 of 3
SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 19 of 39

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 kadiation Regulatory Agency

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

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Maricopa County Sheriff's Office Department of Public Safety

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX F Page 2 of 3
SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 20 of 3

- 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 <u>initial</u> 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).

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1.13 Offer to repeat information and reiterate as necessary.

	GS EMERGENCY PLAN MENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX F Page 3 of 3
	SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 21 of 39
2.0	FOLLOW-UP EMERGENCY MESSAGE FORM	(APPENDIX D)	
2.1	Fill in data required by steps Emergency Message Form."	1-3 of Appendix D	, "Follow-up
	NOTE		
	If the emergency is non-r steps 4-9 may be deleted.		ure,
2.2	Obtain from the Radiation Prot Assessment Coordinator (if EOF complete steps 4-9.		
2.3	Obtain from the Emergency Coor Coordinator (if EOF is activat 10-14.		
2.4	Circle appropriate wording in	step 15.	
2.5	Dispense information when aske	d by offsite agenc	ies (NRC or ARRA)
3.0	EMERGENCY TERMINATION MESSAGE FO	RM (APPENDIX E)	
3.1	Fill in data required by steps Termination Message Form."	1-3 of Appendix E	, "Emergency
3.2	Obtain approval from SS/EC/EOD	ur gerregen i	
3.3	Transmit termination per Appen	dix A.	
	NOTE	et : : : : : : : : : : : : : : : : : : :	
	To verify the group page pager installed in the ST much as two (2) minutes m dial-up and the broadcast	SC. Be aware that ay lapse between	
3.4	When using the Group Paging Sy termination, use the following		event
	"THIS IS PVNGS UNIT , CANCEL RESPONSE TO EMERGEN	EMERGENCY TERMINAT	TED. PLEASE

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX G Page 1 of 2
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NOTIFICATION ALERT METWORK (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.

- 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."
- 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.

- 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?" (MCDCD&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."

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX G Page 2 of 2
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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.
- Upon completion of the second roll call, announce: "K-O-N 5-1-1 Palo Verde off." This is the required FCC sign-off.

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7. Continue notification per Step 1.8 Appendix F.

PROCEDURE	1
NO. EPIP-05	APPENDIX H Page 1 of 1
REVISION 9	Page 24 of 39
Protective Ad	
authorities of Emergency star recommend see within a 2 mi plant and wit affected sect based on plan conditions an	of Site Area tus/cause and king shelter le radius of the bin 5 miles in ors as warranted t/containment d projected and/o;
	Perl
	NO. EPIP-05 REVISION 9 COMMENDATIONS Protective Ac Recommendat Inform state authorities of Emergency sta recommend see within a 2 mi plant and wit affected sect based on plan

# PVNGS EMERGENCY PLAN PROCEDURE IMPLEMENTING PROCEDURE NO. SITE AREA EMERGENCY EPIP-05 IMPLEMENTING ACTIONS Page 1 of 1 9 Page 24 of 39

# PROTECTIVE ACTION RECOMMENDATIONS

Classification Category

Protective Actions Recommendations

Site Area Emergencyany 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 account 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.

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX I Page 1 of 13
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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.

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### NOTE

Refer to the following pages per appropriate facility activation

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

### INITIAL RESPONSE

- 1. Receive notification from the Shift Supervisor and report to the Control Room of affected unit.
- 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.

	PVNGS EME SENCY PLAN MPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX I Page 2 of 13
	SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 26 of 39
	EMERGENCY COORDIN STSC ACTI		
INIT	TAL RESPONSE		
5.	Activate the Satellite TSC per EPIP-1 Center/Satellite TSC Activation."	1, "Technical Suppo	ort
6.	Commence notification process per App Communicator to do so.	endix F or the dir	ect STSC
	(1) Direct the Security Director to offsite Emergency Organization P	call in the PVNGS generation of the call in the PVNGS generation of the call o	onsite and
7.	Provide plant wide public address ann	ouncement when the	STSC is activated.
8.	Verify personnel resources are on sta	ndby in the OSC.	
9.	Reevalute the emergency classificatio reclassify as necessary.	n as conditions cha	inge per EPIP-02,
10.	As necessary, direct implementation o EPIP-22, "Personnel Injury."	f EPIP-23, "Fire Fi	ghting" and
	<ol> <li>For a fire, dispatch Fire Team a contact the Bechtel or alternate assistance (if required).</li> </ol>	nd order the Securi offsite fire depar	ty Director to tment for
	(2) For personnel injury, contact th of the situation. Dispatch a Fi coordinate any required offsite	rst Aid Team, if ne	and inform them acessary, and
11.	Determine any additional protective a to state and county response agencies Guidelines."	ction recommendation per EPIP-15, "Prot	ons to be provided tective Action
12.	As appropriate, complete Follow-up Em	ergency Message For	
13.	Determine the need for offsite suppor call location(s) in EPIP-33, "Offsite the Security Director per EPIP-24, "S	Assistance" and an	TSC Communicator to trange access with

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX I Page 3 of 13	
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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.
- Be prepared to implement EPIP-21, "Search and Rescue", by providing necessary data to the OSC Coordinator.

### Emergency Exposures and KI

- 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

 When relieved by <u>onsite</u> Emergency Coordinator, provide a briefing and transfer responsibilities.

### OSC Activation

- 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 unihabitable, direct the OSC Coordinator to relocate to a protected area (Control Room/STSC, TSC or EOF).

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX I Page 4 of 13
SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 28 of 39

### 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.
- 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

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

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX I Page 5 of 13
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Event Termination or Reduction

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

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX I Page 6 of 13
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### EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

### INITIAL RESPONSE

- Receive notification from the <u>onshift</u> Emergency Coordinator and report to the TSC. Upon arrival, sign in on the TSC staffing Board.
- Receive a briefing from the <u>onshift</u> 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

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

22 2

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### EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

- 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 acccountability signal, receive a report on accountability in the protected area from the Security Director.
- 13. Receive a report on site accountability later.
- 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 Acces 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 addition 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

· 22 +

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

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX I Page 10 of 13
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### EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

### INITIAL RESPONSE

- Receive notification from the <u>onshift</u> Emergency Coordinator and report to TSC. Upon arrival, sign in on the TSC Staffing Board.
- Receive a briefing from the <u>onshift</u> 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.
- 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

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

14 4

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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. Reclive a report on site accountability later.
- 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

- Per EPIP-18, "Emergency Exposure Guidelines," and as necessary, authorize emergency exposures.
- 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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	NCY COORDINATOR		
	Security		
17. As necessary, implement EPI Director to limit access to Office for assistance in co necessary personnel not on and/or not having access to the	the station, ontrolling site the Emergency	contact Maricop access, and a Personnel Acces	pa County Sheriff's rrange access for ss list
<ol> <li>Ensure the Security Directo to arrange access.</li> </ol>	or is appraised	d of offsite as	sistance requests
Co	prrective Actio	ons	
19. Determine needs, consult wi "Reentry for Emergency Oper	ith staff, auth rations."	norize reentry ;	per EPIP-25,
As	ssessment Actio	ons	
20. Ensure that the Radiologica data using EPIP-14A, "Release Ra assessment," EPIP- 16, "Inplant "Onsite/Offsite Surveys and Samp	ate Determinat: Surveys and Sa	ion." EPIP-14B.	"Initial Dose
Pr	cotective Actio	ons	
<ol> <li>Determine the need for earl EPIP-19, "Onsite Eavcuation</li> </ol>	ly dismissal/ev n."	vacuation of not	n-essentials per
<ol> <li>Establish evacuation order, inform the Security Director</li> </ol>	, offsite reass	sembly area, ev	acuation route and
<ol> <li>Order evacuation signal whe preparations are complete.</li> </ol>	en the Security	7 Director repo	rts that
	Recovery		
24. Consult with the Emergency EPIP-31, "Recovery."	Operations Din	rector concerni	ng implementing

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	Event Termination or Reduction
25.	Contact PYNGS Compliance at ext. or beepe
	authorities. Provide documentation as requested.

	CONTROLLED D	OCUMENT	
	RGENCY PLAN	PROCEDURE NO. EPIP-05	APPENDIX J Page 1 of 2
	EMERGENCY ING ACTIONS	REVISION 9	Page 38 of 39
	STSC COMMUNICAT	COR RESPONSE	
POSITION FILLED BY:			
	Nuclear Opera	ator from affected a	unit
RESPONSIBILITY:	onshift Emergency	fication process as Coordinator. Ensui- lipment. Maintain o	re operability of
IMMEDIATE ACTIONS			
	STSC Activ	vation	
1. Report to the S	TSC upon notification.		
No	tification of ALERT, S GENERAL EME		
	itial Emergency Messag inator or Shift Superv		by the <u>Onshift</u>
<ol> <li>Initiate notifi Shift Supervise</li> </ol>	cation process as dire or in his absence).	ected by the Emerge	ncy Coordinator (or
4. Inform the Emer	gency Coordinator when	n initial notificat	ions are complete.
	urity Director and ind directed by the Emerg		additional
<ol> <li>Prepare the Fol Coordinator.</li> </ol>	low-up Emergency Messa	age Form as directe	d by the Emergency

*7. Provide follow-up information when requested by the State/County agencies.

* 24 x

* *

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Notification of ALERT, SITE AREA EMERGENCY, GENERAL EMERGENCY

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

### Offsite Assistance

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

### ACTIVATION OF ONSITE EMERGENCY ORGANIZATION

- 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

PALO VERDE	E NUCLEAR GENE	RATING STATION	
PF	ROCEDURE CHANG	E NOTICE	
ASSIGNED COPY		PAGE	1 01
2.	20		
PVNGS # 8-9	7+	INTENT CHANGE	
			YES
PROCEDURE TITLE Jereral Emergency .	Implementing A	ctions	
PROCEDURE NUMBER EPIP-06	7	REV. 9	PCN
to exceed 5 PCNs		DATE	
REASON FOR PCN: To update Protection	e Action Remm	mendations to reflect	the and
found in IEIN 93.28. Also, odded	L statement con	ncerning the EUS Mannie	ne your
events.		4	0 0
-			•
EXPIRATION:			
1			
AFFECTED STEPS: Section 30 sace to		CHANGE REQUIRED:	
AFFECTED STEPS: Section 30 page la		Delete page 6 ; Tosert	
AFFECTED STEPS:		Delete page 6 ; Tosert	L 600
AFFECTED STEPS: Section 30 page la		Delete page 6 ; Tosert	4 6.1. ect 24a
AFFECTED STEPS: Section 30 page (a Appendix 4		Delete pages 24 and 25; 50	
AFFECTED STEPS: Section 30 page (a Appendix 4 PREPARED BY:	2/20/86	Delete page 6 ; Tosert	
AFFECTED STEPS: Section 30 page (a Appendix 4 PREPARED BY:	2126(86 DATE	Delete pages 24 and 25; 50	
AFFECTED STEPS: Section 30 parce la Appendix H PREPARED BY: <u>Herafel A. Annele</u> SIGNATURE		Delete page 6 : Tosert Delete pages 24 and 25; Zo ENTERED IN PROCEDU	
AFFECTED STEPS: <u>Section 30 page (a</u> <u>Appendix 4</u> PREPARED BY: <u>Merald a. shimele</u> SIGNATURE TEMPORARY APPROVAL:		Delete page 6 : Tosert Delete pages 24 and 25; Zo ENTERED IN PROCEDU	
AFFECTED STEPS: Section 30 parce la Appendix H PREPARED BY: <u>Herafel A. Annele</u> SIGNATURE		Delete pages 24 and 25; In Delete pages 24 and 25; In ENTERED IN PROCEDU SIGNATURE	
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ASSIGNED COPY PVNCS  $\# \frac{8-9A}{4}$ 

DEPT. HEAD Harry & Billing be Connis Your DATE 14/1/25 PRB/PRG/TRRG REVIEW A. BUMALLE DATE 1/2/86 APPROVED BY ____ DATE ____/6 EFFECTIVE DATE _____ CT-15-86 DN-1601A/0787A

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### REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
5	2-14-85	A11	Total Revision: Revises
			procedures and appendices.
			Included Emergency Coord.
			checklist.
6	05-01-85	App. A & B	Revised to incorporate PCN
	· · · · · · · · · · · · · · · · · · ·		#01 of Rev. 5. PCN
	· · · · ·	· · · · · · · · · · · · · · · · · · ·	corrected phone #'s in App.
			<u>A &amp; B.</u>
7	06-17-85	3, 6, 7, 8, 9	Added termination message
		10, 11, 13,	form and instructions. Added
		14, 17, 18,	event description to follow-
		19, 20, 22,	up form. Added note to
		25 & 29	provide guidance on
			notifications. Charged seq.
			of notifications in App. A.
			Capitalized announcement to
			make easy to identify.
			Updated all references to
			appendices.
		100 100 100 100 100 100 100 100 100 100	

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		REVISION HIS	TORY	
Rev. No.	Date	Revised Pages		Comments
88	09-10-85	4,6,8,9,10	Incorporat	ed PCN #1 of
		11,12,13,20,	Rev. 7, ad	ded new phone #'s
<u></u>		21,26,27,29	& STSC Com	munication Check-
		30,33,34,37,	List, plus	detailed instruc
		38,39	tions for	announcements.
9	01-15-100	4,8,9,10,12,14,	Incorporat	ed PCN #1 and 2 o
		13,14,15,17,	Rev. 8, De	leted Time/
		18,24,26,27,	Initials c	olumn in
		28,29,30,31,	Appendices	I and J.
		32,33,34,35,		
		36,37,38,39		
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4.0	DETAILED PROCEDURE	6
	<ul> <li>4.1 Personnel Indoctrination/Responsibilities</li> <li>4.2 Prerequisites</li> <li>4.3 Instructions</li> </ul>	6 7 7

# APPENDICES

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1.0 <u>OBJEC</u>	TIVE		
1.1 Thi tak	is procedure provides a serie ten upon declaration of a GEN	es of implementing MERAL EMERGENCY.	actions to be
2.0 <u>REFER</u>	LENCES		
2.1 Imp	lementing References		
2.1.1	EPIP-02, "Emergency Classif	fication"	
2.1.2	EPIP-11, "Technical Support	Center/Satellite	TSC Activation
2.1.3	EPIP-12, "Operations Suppor	t Center Activatio	on"
2.1.4	EPIP-13, "Emergency Operati	ons Facility Activ	vation"
2.1.5	EPIP-14A, "Release Rate Det	ermination"	
2.1.6	EPIP-14B, "Initial Dose Ass	essment"	
2.1.7	EPIP-15, "Protective Action	Guidelines"	
2.1.8	EPIP-16, "Inplant Surveys a	nd Sampling"	
2.1.9	EPIP-17, "Onsite/Offsite Su	rveys and Sampling	3"
2.1.10	EPIP-18, "Emergency Exposur	e Guidelines"	
2.1.11	EPIP-19, "Onsite Evacuation	"	
2.1.12	EPIP-20, "Personnel Assembl	y and Accountabil:	ity"
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 Recov	ery Operations"	
2.1.18	EPIP-26, "Potassium Iodide	(KI) Administratio	"ac

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<ul> <li>2.1.19 EPIP-31, "Recovery"</li> <li>2.1.20 EPIP-33, "Offsite Assistand</li> <li>2.1.21 71AC-92Z01, "Event Related</li> <li>2.1.22 9N219.05.00, "Document/Reco</li> <li>2.2 Developmental References</li> <li>2.2.1 NUREG-0654, Rev. 1, "Criter of Radiological Emergency For Support of Nuclear Power P1</li> <li>2.2.2 PVNGS Emergency Plan, Rev.</li> <li>3.0 LIMITATIONS AND PRECAUTIONS</li> <li>3.1 Continued surveillance and assencessary to ensure that the emappropriately revised as condition information is obtained.</li> <li>3.2 Notifications to State County a Notification Call List Emerges shall commence within 15 minute</li> </ul>	Reporting" ord Turnover Contr ria for Preparatio Response Plans and lants." 6 essment of plant of mergency classific tions change or mo	on and Evaluation Preparedness in conditions are ation is ore definitive dix A, "Emergency TSC Communicator"
<ul> <li>4.0 <u>DETAILED PROCEDURE</u></li> <li>4.1 Personnel Indoctrination</li> <li>4.1.1 In a GENERAL EMERGENCY, even occurred which involve acture degradation or melting with integrity. Radioactive relineasonably expected to exceed exposure levels offsite for area. There is prompt not is state and county authorities</li> </ul>	ents are in progre tal or imminent su h potential for lo leases which may o sed EPA Protective t more than the im ification of NBC a	ss or have bstantial core ss of containment ccur can be Action Guideline mediate site nd appropriate

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- 2.1.19 EPIP-31, "Recovery"
- 2.1.20 EPIP-33, "Offsite Assistance"
- 2.1.21 71AC-9ZZO1, "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. All notifications should be completed prior to contacting the NRC as the ENS

RUNI

- 3.3 must be manned continuously at the NRC's request. 4.0 DETAILED PROCEDURE
- DETRIBED 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.

	MERGENCY PLAN	PROCEDURE NO. EPIP-06	
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4.1.2	Accordingly, prompt consider actions, based on actual of Consideration of predeterm recommendations (in the every product barriers) may also emergency centers are action initiated if appropriate. radiological/meteorological management organizations and status shall be maintained reclassification takes pla	or projected data, bined protective ac- cent of potential 1 be warranted. On vated. Onsite eva The station shall al information to o is necessary. The until the event i	is warranted. tion oss of fission site and offsite cuation shall be provide updated ffsite emergency GENERAL EMERGENC
4.1.3	The Shift Supervisor or th	a Emergency Coordi	nator chall be
	responsible for initiating actions of this procedure.	and completing th	e implementing
4.2 Pre	erequisites		
4.2.1	The emergency has been cla Classification."	ssified per EPIP-0	2, "Emergency
4.3 Ins	structions		
4.3.1	The affected unit Shift Su following:	pervisor shall per	form the
	NO	TE	
	Designated Unaffected to assume the role of Coordinator in the <u>On</u> Organization are:	the Emergency	isor
		fected Unit Shift	Supervisor
	Unit 1 Unit 2	Unit 2 Unit 1	
	Unit 3	Unit 2	
	Entire Site	Unit 1	
4.3.3	unit (or Shift Supervi	sor of an unaffect	ed unit) to
	report to the Control assume the duties of t	he Emergency Coord	inator.

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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.

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* 12 ×

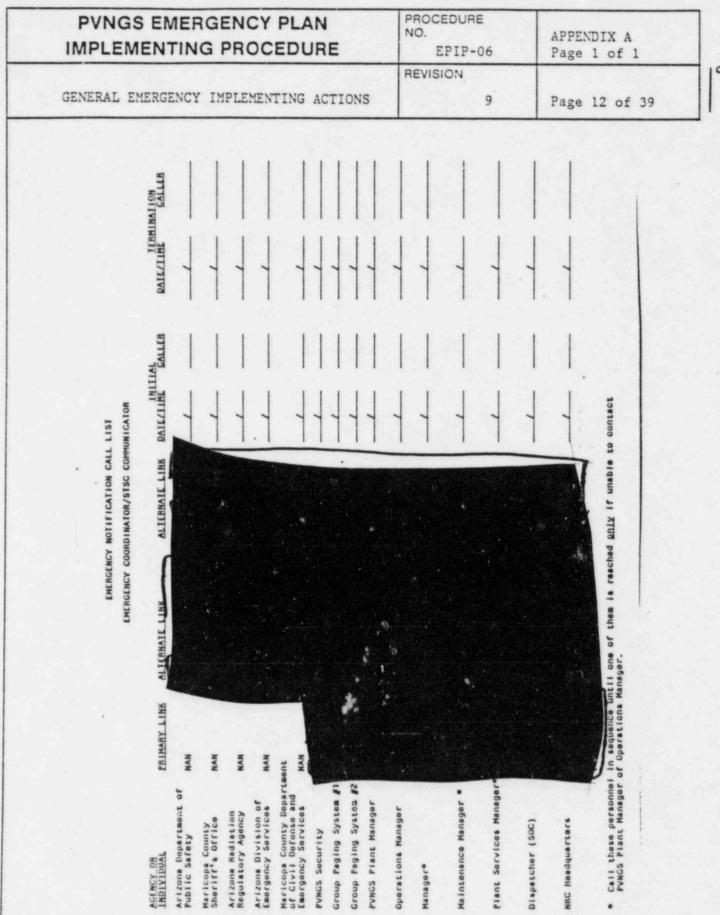
- 4.3.1.4 Ensure the accountability signal is sounded for approximately one minute.
- 4.3.1.5 Silence the signal and ensure the following announcement is made over the plant wide telephone page (phone no.

	RGENCY PLAN	PROCEDURE NO. EPIP-06	
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	"ATTENTION ALL PLANT CLASSIFIED AS A GENER UNIT ASSEMBLY PROGRESS. ALL AFFECT AND ALTERNATES REPORT OTHER PERSONNEL REPOR (Provide instructions appropriate).	AL EMERGENCY EXIS AND ACCOUNTABILI ED UNIT EMERGENCY TO YOUR EMERGENCY TO YOUR ASSIGNE	TTS IN TY ARE NOW IN RESPONSE PERSONNE Y LOCATION. ALL D ASSEMBLY AREA."
1011	and the second		
4.3.1.6	Ensure the announcement the Site Warning Siren/	in Step 4.3.1.5 Public Address Sy	is repeated over stem.
4.3.1.7			
	Ensure the accountabili announcement in Steps 4	.3.1.5 and 4.3.1.	ounded and the 6 is repeated.
4.3.1.8	Ensure that actions of	the appropriate r	ACOUATY OF
	casualty procedures hav	e been implemente	d.
4.3.2 The	Emergency Coordinator s	hall perform the	following:
4.3.2.1	Ensure activation of th EPIP-11, "Technical Sup	e satellite TSC i port Center/Satel	n accordance with lite TSC
	Activation."		
4.3.2.2	Following accountabilit initiate EPIP-19, "Onsi	y, and if conditi te Evacuation."	ons warrant,
4.3.2.3	Implement additional Em	ergency Plan Impl	ementing
	Procedures according to the emergency being cla	the situation th	at resulted in
4.3.2.4	Direct the Security Dir Offsite Emergency Organ appropriate computer ca	ization personnel	Onsite and by utilizing the
4.3.2.5	Direct the STSC Communi Engineer) to prepare Ap Message Form" in accord Appendix F.	pendix D, "Follow	-up Emergency
4.3.2.6	Determine the need for	offsite assistance	a If annious
	is necessary, direct th Administrative and Logi required agency per EPI	e STSC Communicat stics Coordinator	or (onshift) or to contact the
4.3.2.7	Reevaluate the emergenc licensee actions as con	y classification	and perform

PV	NGS EME	RGENCY PLAN	PROCEDURE	
IMP	LEMENTI	NG PROCEDURE	EPIP-06	1
			REVISION	1
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	1944 (M. 1977)			
	4.3.2.8	When the situation warr EMERGENCY, proceed to a notification procedures to announce the downgra system and inform the o	appropriate implem and direct the S ading over the pub	enting and hift Supervisor lic address
	4.3.2.9	Provide overall directi emergency response as p Coordinator Response.		
	Coo in con PV	NGS Security, after being ordinator or STSC Communi progress or has occurred mplete Appendix B, "Emerg NGS Security," and notify the situation.	cator that a Gene , or has been ter ency Notification	ral Emergency is minated, shall Call List -
	4.3.4 Op	erations Support Center (	OSC) Activation	
	4.3.4.1	The OSC Coordinator sha Support Center Activati	ll implement EPIP on."	-12, "Operations
	4.3.5 Em	ergency Operations Facili	ty (EOF) Activati	on
	4.3.5.1	The Emergency Operation procedure EPIP-13, "Eme Activation."	s Director shall rgency Operations	implement Facility
	4.3.6 Em	ergency Situation Termina	ted	
	4.3.6.1	The Shift Supervisor (o ensure the "All Clear" approximately (1) minut announcement is made ov	signal is sounded e and that the fo	for llowing
		"ATTENTION ALL PER SITUATION DECLARED NOW BEEN TERMINATE instructions as ne	IN UNIT HAS D. (Provide spec	5
	4.3.6.2	Ensure the announcement the Site Warning Siren/	in Step 4.3.6.1 : Public Address Sys	is repeated over stem.
	4.3.6.3	Ensure Steps 4.3.6.1 an	d 4.3.6.2 are rep	eated once.
	4.3.6.4	Direct the STSC Communi Engineer) to fill out A Message Form," per inst	ppendix E, "Emerge	ency Termination

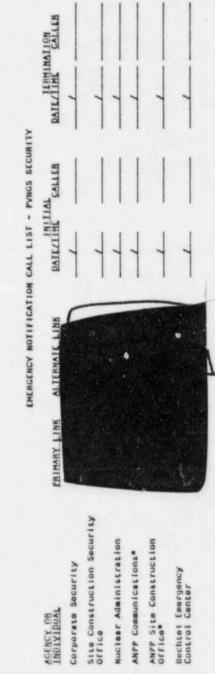
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	RGENCY PLAN	PROCEDURE NO. EPIP-06	
GENERAL EMERGEN	CY IMPLEMENTING ACTIONS	REVISION 9	Page 11 of 3
			l'age II OI .
4.3.6.5	Direct the STSC Communi Engineer) to transmit t	cator (or Governm he termination pe	ent Liaison er Appendix A.
4.3.6.6	At close out or reducti classification, the S.S Compliance Dept. at ext or to prov to offsite authorities shall provide shift log requested by Compliance	./E.C. shall noti for beeper ide written summa within eight (8) s, control room 1	fy PVNGS no. ry of the event hours. S.S./E. ogs, etc. as
4.3.7 Red	cord Retention		
4.3.7.1	Appendices A, B, C, D, the Emergency Planning they are forwarded to D accordance with 9N219.0 Control."	Dept., mail stati DC for proper sto	on 6010 to ensur rage in



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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX B Page 1 of 1
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"Available during working hours only.

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PV	NGS EMERGENCY PLAN	PROCEDURE NO.	ADDENDTY C
IMP	EMENTING PROCEDURE	EPIP-06	APPENDIX C Page 1 of 1
		REVISION	
GENER	AL EMERGENCY IMPLEMENTING ACTIONS	9	Page 14 of 39
	INITIAL EMERGENCY M NOTIFICATION OF UNUS ALERT, SITE AREA EMERGENCY, ( Verbatim text of Message: THIS IS THIS IS PALO VERDE NUCLEAR GENERATI UNUSUAL EVENT) (ALERT) (SITE AREA E (circle appropriate of	SUAL EVENT, OR GENERAL EMERGEN( (IS NOT) A DRILL! ING STATION (NOTIF EMERGENCY) (GENERA)	! (Circle One) ICATION OF
declare			
	(time) (date)	om degrees -	(speed)
PAL	O VERDE AUTHENTICATOR		
		cator letters)	
2. Thi	s is, at the (name/title)	ne Palo Verde Nucle	ear Generating
Sta	tion Unit		
	rcle One)		
	There is <u>NO</u> , repeat <u>NO</u> , radioacti special protective actions are re	ive release taking accommended at this	place and no time.
(b)	OR There is <u>NO</u> , repeat <u>NO</u> , radioacti allowable operating limits and <u>NO</u> recommendations at this time.	ive release in exce protective action	ess of
1.1	OR		
(c)	There is <u>NO</u> , repeat <u>NO</u> , radioacti time. However, the following pro Sectors	ve release taking tective actions ar Distance (M	re recommended.
		-	
	OR		
(d)	A radioactive release <u>IS</u> , repeat that people in affected sectors r doors closed.	<u>IS</u> , taking place. remain indoors with	We recommend windows and
	Sectors	Distance (M	(iles)
1.54	OR		
(e)	A radioactive release IS, repeat that evacuation of affected secto	IS, taking place. rs be considered.	We recommend
	Sectors	Distance (M	iles)
. THIS	S IS (IS NOT) A DRILL!! (Circle One	)	
	to the strategies and the base set		
	Approved(S.S./E.C./E.O.D.)		te Time

	VNGS EMERGE	ENCY PLAN PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX D Page 1 of 3
			REVISION	
GENI	RAL EMERGENCY IM	PLEMENTING ACTIONS	9	Page 15 of 3
		FOLLOW-UP EMERGENCY	MESSAGE FORM	
1.	THIS IS A PALO message concern	of Message: THIS IS VERDE NUCLEAR GENER ing the (NOTIFICATI (GENERAL EMERGENCY (circle appropriat	ATING STATION fol ON OF UNUSUAL EVE )	low-up informatic NT) (ALERT) (SITT
	declared at			
	(	time) (date)		
2.	This is(na Unit	me/title), at P	alo Verde Nuclear	Generating Stat:
3.	Brief descripti	on of the event		
4.	Meteorological	Data		
4.		Data ion from (direction)	(degrees) - at	miles per hou peed)
4.		ion from (direction)	(s)	miles per hou peed)
4.	a. Wind direct	ion from (direction)	(s) r) G	miles per hou peed)
4.	<ul> <li>a. Wind direct</li> <li>from</li></ul>	ion from (direction) to tor) to (secto lass: A B C D E F	(s) G e)	miles per hou peed)
	<ul> <li>a. Wind direct</li> <li>from</li></ul>	ion from (direction) to tor) to lass: A B C D E F (Circle On on Yes No (Circle One	(s) G e)	miles per hou peed)
5.	<ul> <li>a. Wind direct</li> <li>from</li></ul>	ion from (direction) to tor) to (secto lass: A B C D E F (Circle On on Yes No (Circle One ta	(s) G e)	miles per hou peed)

	VNGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX D Page 2 of 3
GENE	RAL EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 16 of 3
-			
5.	b. Release Time		
	c. Reactor Trip Time	<u></u>	
	d. Location/Source of Release		
6.	Current Release Rates		
	a. I-131 Equivalent C	i/second	
	D. Noble GasC	i/second i/second	
7.	Two-hour plume centerline projected	dose at:	
	Distance Sector Whole Body		
	Dose (REM)	Dose Commitment (REM)	
	Site Boundary		
	Boundary		
	Boundary 2 miles		
	Boundary 2 miles		
8.	Boundary 2 miles 5 miles		
8.	Boundary 2 miles 5 miles 10 miles		

	NGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX D Page 3 of 3
GENEI	RAL EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 17 of 3
10.	The Following Emergency Measures In Recommended:	cluding Protectiv	ve Actions are
11.	The Following Emergency Response Ac	tions are Underwa	ıy:
12.	We Request the Following Onsite Supp Sources:	port and Assistan	ice from Offsite
			ice from Offsite
	We Request the Following Onsite Support Sources: Our Prognosis of the Emergency is the Are Under Control Can Be Expected to Terminate With Are Worsening	hat Conditions:	ice from Offsite
13.	Our Prognosis of the Emergency is theAre Under ControlCan Be Expected to Terminate W	hat Conditions:	ice from Offsite
13.	Our Prognosis of the Emergency is th Are Under Control Can Be Expected to Terminate Wi Are Worsening	hat Conditions: ithinhours	ice from Offsite

q

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX E Page 1 of 1
GENERAL EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 18 of 3
EMERGENCY TERMINATION	MESSAGE FORM	
1. Verbatim text of message: THIS IS THIS IS PALO VERDE NUCLEAR GENERAL UNUSUAL EVENT) (ALERT) (SITE AREA (circle approprite classification) AT	TING STATION. THE EMERGENCY) (GENERA	(NOTIFICATION OF L EMERGENCY)
(Time) (Date)		
<ol> <li>This is (Name)</li> <li>Verde Nuclear Generating Station I</li> </ol>	(Date)	_, at Palo
3. PALO VERDE AUTHENTICATOR		
		· · ·
	(Authenticator Lett	ers)
Approved:		
	(Authenticator Lett Date/T	
Approved:		

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	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 Monito_ (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 <u>initial</u> 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:

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"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.

- 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.

- 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?" (MCDCD&ES) Allow response: "5-1-1 Civil Defense copies."
  - 3.3 "5-1-1 Palo Varde to 5-1-1 Department of Public Safety. Do you copy?" Allow response: "5-1-1 DPS copies."

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- 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: "5-11 ARRA copies."

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GENERAL EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 23 of 39

4. Upon completion of roll call, transmit the notification message verbatum. Take acknowledgement roll call, allowing MCSO to read the message back in its entirety, and provide assistance or clarification, as needed.

 Upon completion of the second roll call, announce: "K-O-N 5-1-1 Palo Verde off." This is the required FCC sign-off.

100.00

6. Continue notification per Step 1.8 Appendix F.

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX H Page 1 of 2.
	REVISION	rage 1 OF 2.
GENERAL EMERGENCY IMPLEMENTING ACTIONS	9	Page 24 of 39
PROTECTIVE ACTION R	RECOMMENDATIONS	
Classification Category	Protectiv Recommen	re Actions
1. A General Emergency has been declared (imminent/actual loss of physical control of the plant)	mile rad within p sectors Consider	nd shelter within a 2 dius, and out to 5 mi potentially affected a 2 mile congry evacuation.
<ol> <li>A General Emergency has been declared large amounts of fission products are the containment atmosphere. The proje dose using containment area monitor re is calculated to be:         <ul> <li>a) whole body &gt; 5 rem</li> <li>b) thyroid &gt; 25 rem</li> </ul> </li> </ol>	in 2 mile e	ion to considering a evacuation, consider downwind evacuation tially affected *
3. A General Emergency has been declared 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 cose using containment area monitor readings is calculated to be: a) whole body > 5 rem b) thyroid > 25 rem	t 2 mile 3 evacuati tionary n miles an to 10 mi	tion to considering a 60° precautionary on, consider a precau 360° evacuation to 5 d a downwind evacuat les of potentially a ectors. *
<ul> <li>4. A General Emergency has been declared large amounts of fission products othe than noble gases in the containment atmosphere and containment <u>failure</u> is judged imminent. The projected dose u containment area monitor readings is calculated to be:</li> <li>a) whole body &gt; 5 rems</li> <li>b) thyroid &gt; 25 rems</li> </ul>	r 2 mile 3 avacuati tionary sing miles an to 10 mi fected s shelter evacuati complete	ion to considering a 60° precautionary on consider a precau- 360° evacuation to 5 d a downwind evacuat: les of potentially a: ectors,* and consider for areas where on cannot be d before the transpor- ity to those areas.

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Gen	eral Emergency Implementing Actions		REVISION 9	Page 24a of 39
	PROTECTIVE ACTIO	ON RECO	MMENDATIONS	
	Classification Category		ctive Action mendation	
1.	A General Emergency has been declared as per EPIP-02, "Emergency Classifi- tion."			le radius and 5 . y affected sectors.*
2.	EPA Protective Action Guidelines are projected to be exceeded.		cordance with 1 lines:	EPA Protective Action
	a) whole body > 1 rem to $\leq$ 5 rems thyroid > 5 rems to $\leq$ 25 rems	affec	ted sectors ^o and s time constrations	as a minimum, for nd consider evacuation ints make it imprac-
	b) whole body > 5 rems thyroid > 25 rems	secto		n for affected for those areas that 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.		ation for 2-mi tentially affe	le radius and 5 miles cted sectors.*
4.	Large fission product inventory (greater than fuel clad gap activity) has been released to containment.		ation for 5-mi stentially affe	le radius and 10 miles cted sectors.*
5.	Imminent containment failure is pro- jected such that a "puff" release greater than design leak rate will occur, in conjuction with 3. or 4. above.	ated remai	before plume a	hat cannot be evacu- rrival; evacuation of radius and 10-mile cted sectors.*
*	Affected sectors include, as a minimum, sectors. For plumes in sectors P, Q, o affected sector shall be included in th P shall require consideration of sector	or N, t he reco	wo sectors on ommendation (e.	either side of the
055	5/E			

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RUNZ

PVNGS EMERGENCY PLAN	PROCEDURE NO.	APPENDIX H
IMPLEMENTING PROCEDURE	EPIP-06	Page 2 of 2
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		1.000 00 00 07
PROTECTIVE ACTION RECO	MMENDATIONS (CONT	ימי /
Classification	Protective	
Category	Recommend	ations
5. An actual release has occured and the	Recommend	seeking shelter 360°
projected does to individuals in the	for 2 mil	es and in
population is calculated to be:		sectors out to 10
a) whole body $\geq 0.5$ to < 1 rem	miles.	/
b) thyraid ≥ 1.0 to < 5 rems		/
		/
6. An actual release has occured and the	Recommend	a 360° evacuation fo
projected does to individuals in the		nd in affected
population is calculated to be:		out to 10 miles.
a) whole body > 1 rem to < 5 rems	Recommend	seeking shelter
b) thyroid > 5 rems to < 25 rems	360° out	to 10 miles.
	1	
7. An actual release has occured and the		a 360° evacuation fo
projected does to individuals in the population is calculated to be:		nd in affected
a) whole body > 5 rems		out to 10 miles. seeking shelter
b) thyroid > 25 rems	360° out	to 10 miles.
* Plume width is equal to 3 finns or (as a	A	and a descent first
a such as equal to Sysigma y (as a	minum, the dow	nwind sector(s)
* Plume width is equal to 3 sigma y (as a and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minimum, the dow	nwind sector(s)
and adjacent sectors).	minimum, the dow	nwind sector(s)
and adjacent sectors).	minimum, the dow	nwind sector(s)
and adjacent sectors).	minimum, the dow	nwind sector(s)
and adjacent sectors).	minimum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)
and adjacent sectors).	minum, the dow	nwind sector(s)

	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX I Page 1 of 12
		REVISION	
	GENERAL EMERGENCY IMPLEMENTING ACTIONS	9	Page 26 of 39
	EMERGENCY COORDINA STSC ACTIV		
POSI	TION FILLED BY: 1) PVNGS Plant Manager 2) Manager, Technical 3) Shift Supervisor		
RESP	ONSIBILITY: The individual onsite w to immediately and unil including providing not recommendations to Gove implementing offsite em control and coordinatio	aterally initiate ification and prot ernmental authority bergency measures.	emergency actions, tective action les responsible for Provide for the
	NOTE		
	Refer to the foll per appropriate facil	owing pages ity activation	
	Facility Activated STSC	Appendix I	and a second differences
	TSC TSC/EOF	5 - 8 9 - 1	
INIT	TAL RESPONSE		
1.	Receive notification from the Shift Su Room of affected unit.	pervisor and repor	t to the Control
2.	Ensure site wide P.A. announcement is of this procedure.	made as per steps	4.3.1.5 and 4.3.1.
3.	Review plant status, initiating event, classification with the Shift Supervis	corrective action or.	is and emergency
4.	Assume the position of onshift Emergen	cy Coordinator.	
5.	Activate the Satellite TSC per EPIP-11 TSC Activation."	., "Technical Suppo	ort Center/Satellit
6.	Commence notification process per Appe do so.	endix F or direct S	TSC Communicator t

 Direct the Security Director to call in the PVNGS <u>onsite</u> and <u>offsite</u> Emergency Organization personnel. 19

 $*_{M^{(2)}}$ 

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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.
- Reevaluate the emergency classification as conditions change per EPIP-02, reclassify as necessary.
- As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."
  - 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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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 <u>onsite</u> 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.

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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 Accions

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.
- 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.

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29. Order evacuation signal when the Security Director reports that preparations are complete.

### Event Termination or Reduction

30. Contact PVNGS Compliance at Ext. For beeper No.

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#### EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

#### INITIAL RESPONSE

- Receive notification from the <u>onshift</u> Emergency Coordinator and report to the TSC. Upon arrival, sign in onthe TSC Staffing Board
- Receive a briefing from the <u>onshift</u> 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

 Reevaluate the emergency classification as conditions change per EPIP-02 "Emergency Classification," reclassify as necessary.

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 As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."

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#### EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

- 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.
- 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 Directorper 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.
- 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

 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 unihabitable, direct the OSC Coordinator to relocate to a protected area (control room/ STSC, TSC or EOF).

#### EOF Activation

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

#### Sacurity

- 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

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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. For beeper no. For beeper no. For or authorities. 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

- Receive notification from the <u>onshift</u> Emergency Coordinator and report to TSC. Upon arrival, sign in on the TSC Staffing Board.
- Receive a briefing from the <u>onshift</u> 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

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

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

#### OSC Activation

- 15. If a release is occuring, 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.
- 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

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

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25. Contact PVNGS Compliance at Ext. or beeper No.

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STSC COMMUNICATOR RESPONSE

POSITION FILLED BY: Nuclear Operator from affected unit.

RESPONSIBILITY Initiate the notification process as directed by the <u>onshift</u> 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

- Complete the initial Emergency Message Form as directed by the Onshift Emergency Coordinator or Shift Supervisor.
- Initiate notification process as directed by the Emergency Coordinator (or Shift Supervisor in his absence).
- Inform the Emergency Coordinator when initial notifications are complete.
- Contact the Security Director and inform him to call in additional personnel if so directed by the Emergency Coordinator.
- 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

- Contact required offsite assistance (EPIP-33, "Offsite Assistance," Appendix A) via telephone if directed by the Emergency Coordinator.
- Record name and time on "Telephone Communication Log Sheet" (EPIP-33, Appendix B).
- 11. Transfer call to Emergency Coordinator for clarificaton, 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

- Transfer continuous communications link with the NRC to the NRC Liaison - Operations in the TSC.
- 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.

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# EMERGE CONTROLLED DOCUMENT

CONTROLLED DOCUMENT

LIST I

* 2.

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	
R. Selman	8-1
NAME AND ADDRESS OF AD	5-37
Jacek Orlowski Compliance	12-22
Leon Brown	5-17
J. G. Sarver	5-33
V. Rhodes	5-102
Thomas P. Hillmer	1-1
T. Exum	5-121
DDC Library	5-40
M. W. Lantz	1-2
Penny Egebrecht	5-35
Harry Bieling	5-91
the second se	17-9
Gerald Simiele J. Cederquist	5-128
T. Shriver	5-20
T. Barsuk	5-8
D Bast	5-86
D. Best R. Johnson	5-88
Sec Cpt	5-42
Doeg Nelson	
EOF	5-41
EOF	17-1A
EOF	17-1B
EOF	17-10
EOF (Room 12)	17-1D
EOF	17-1E
Unit 2 Rad Protection	17-1F 5-95
Harold Lines	the second se
Martha Roettger	17-5
Harry F. Bieling	5-114
Gary Clyde	the second s
M.L. Clyde	<u>12-61</u> 5-79
Mary Richardson	
Dennis Yows	17-10
Bill Knighton	5-36
Russ Papworth	15-2
Bruce Rash	<u>5-7</u> 13-18
Dan Phillips	
Kevin Wright	13-16
J. M. Allen	17-11
W. Fernow	5-31 5-14 6-7
C. Anderson	6.7
Sim Obs Rm	5-89
C. R. Dunaway	5-89
D. Nelson	
M. Whitaker	5-18
J. Tench	5-38
A. Perouthka	5-19
J. R. Bynum	6-6
B. Simmons	5-22
F. Hicks	6-10
	6-9

Unit 1 Control Room	5-2B
Kris Oberdorf	5-6
Darrel Nissen	3-2
Unit l Radwaste	5-43
Frank Warriner	3-3
T. Warren	5-21
Startup Complex (Upstairs)	2-10A
B. Rogers/TSC	5-94
TSC	3-5
Galon 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
D. Fasnacht	19-1
Jim St. John	14-47
Dan Canady	13-42
WRF/DDC	1-7
Unit III Radwaste Library	5-130
Unit III Radwast- Library Unit III Control Rm.	<u>5-130</u> 5-39
Unit III I&C	3-33
Unit III Radiation Protection FOR NRC	5-96
TYNK FL QUINN/4057 W/NRC LETT	ED ON D/A
Jack Martin/Adm	8-8
Decoment Cont Deak	CONSTRUCTION OF
Document Cont. Desk	8-9B
Gail M. Temple	8-5
Falk Kantor	8-6

	PROCEDURE			GROUP		
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CONTROLLED DOCUMENT PALO VERDE NUCLEAR GENERATING STATION EMERGENCY PLAN IMPLEMENTING PROCEDURES CHANGE LIST DATE 04/08/86				
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	
	136	HGNE	D COPY.	
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PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

Daniel Carlos -	PAGE of
V7773	INTENT CHANGE: NO
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1. PROCEDURE TITLE Trabaval Support Cooler	/Satellite TSC Artication
2. PROCEDURE NUMBER EPIP-11	REV. 5 PCN 2
to exceed 5 PCNs	DATE
3. REASON FOR PCN: Phone author for Hissay	anpa Ring Stehen changed
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4. EXFIRATION: Nect revision	
5. AFFECTED STEPS:	CHANGE REQUIRED:
Appendix C - page 19	Delieke page 19; Insert Ma
Appendix C - prize 20	Delete page 20; Jrect 20a
. PREPARED BY:	ENTERED IN PROCEDURE BY:
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PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

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		INTENT CHANG	E: NO YES
1. PROCEDURE TITLE Technical Su	opert Center / Satell, 4	TSC Activition	
2. PROCEDURE NUMBER EPIP-	//		
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. EXPIRATION: <u>permanent</u> . AFFECTED STEPS:			
Appendix C, page 10f 6 - step	4	CHANGE REQUIRED:	l Iba
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TECHNICAL SUPPORT CENTER/SATELLITZ TSC ACTIVATION	REVISION 5	Page 1 of 48	

# DDC COPY FILE

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# ASSIGNED COPY.

DEPT. HEAD Herry Billing filler DATE 12/4/55 PRB/PRG/TRRG REVIEW A Billing filling DATE 1/2/56 APPROVED BY DATE 1/2/56 EFFECTIVE DATE 61.55.56 DN-1664A/0296A

PV216-00DA (8:82)

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Rev. No.	Date	Revised Page	s	Comments
3	5/10/85	ALL	Revised to	incorporate
			PCN #01 of	E Rev. 2 and to
			reflect ac	tual policies and
			practices	of Emergency
<u></u>			Planning.	
4	9/18/85	3,4,5,6,9,10,	Revised to	reflect new rev.
		15,16,17,19,	of E-Plan	and to incorporat
		20,22,23,24,	previous d	rill comments.
		25,26,28,30,		
		39,42		
5	9-15-64		Deleted Ch	ecklists
		14 <u>14</u> 14		
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3.0 LIMITATIONS AND PRECAUTIONS		6	
4.0 DETAILED PROCEDURE		7	
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Appendix B - Radiation Protection Monitor Res	ponse	13	
Appendix C - Security Director Response		16	
Appendix D - Technical Engineering Coordinato Response	r (Onsite)	22	
Appendix E - Technical Engineering Assistant Response	(Onsite)	24	
Appendix F - Radiological Protection Coordina Response	tor (Onsite)	25	

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Appendix H - Emergency Maintenance Coordinator (Onsite) Response		32
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Appendix U - TSC Equipment Layout

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TECHNICAL S	ACTIVATION	REVISION 5	Page 5 of 48
1.0 <u>OBJE</u>	CTIVE		
1.1 To Te	provide instructions for the chnical Support Center (TSC)	activation and op and the Satellite	eration of the TSC (STSC).
2.0 <u>REFE</u>	RENCES		
2.1 Im	plementing References		
2.1.1	EPIP-03, "NOTIFICATION OF U	NUSUAL EVENT Imple	menting Actions
2.1.2			
2.1.3	EPIP-05, "SITE AREA EMERGEN	CY Implementing Ac	tions"
2.1.4			
2.1.5			
2.1.6			
2.1.7	EPIP-15, "Protective Action	Guidelines"	
2.1.8			
2.1.9			
2.1.10	EPIP-18, "Emergency Exposure		
	EPIP-20, "Personnal Assembly		ty"
	EPIP-21, "Search and Rescue"		
2.1.13	EPIP-25, "Reentry for Emerge	ency Operations"	
	EPIP-26, "Potassium Iodide (		n"
	EPIP-28, "Personnel Monitori		
	EPIP-29, "Area/Equipment Mon		
	9N219.05.00, "Document/Recor		

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the state of the s	AL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 6 of 48
2.2	Developmental References		5
2.2	.1 NUREG 0654, Rev. 1, "Criter of Radiological Emergency I Support of Nuclear Power Pl	Response Plane and	n and Evaluation Preparedness in
2.2	.2 NUREG 0696, Feb. 1981, "Fur Response Facilities"	nctional Criteria	for Emergency
2.2	.3 PVNGS Emergency Plan, Rev.	6	
2.2	.4 75AC-92201, "Radiation Expo Control," Rev. 2.	sure Authoriztion.	Permits and
2.2	.5 ANSI N45.2.9-1974, " Requir and Maintenance of Quality Power Plants"	ements For Collect Assurance Records	ion, Storage, for Nuclear
2.2.	6 7N409.02.00, "Emergency Pre Staifing," Rev. 0.	paredness Organiza	tion and
3.0 · LI	MITATIONS AND PRECAUTIONS		
3.1	Activation of the TSC should be time goals set forth in the PVN	completed within GS Emergency Plan.	the augmentation
3.2	The Satellite TSC and the TSC ma for normal daily activities as a drills. Use of these facilities that will not degrade preparedne conditions or reduce system(s) a reviewed by the Site Emergency H	ay be used by desi well as for traini s shall be limited ess to react to ab	gnated personnel ng and emergency to activities normal
3.3	Each individual in the TSC/STSC submit any written documentation ensures they are forwarded to Em storage in accordance with 9N219 Control."	upon event termin to the Emergency	ation shall Coordinator who

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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 <u>onshift</u> 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 as been activated.
  - 4.1.1.1 Prior to activation of the <u>onsite</u> and <u>offsite</u> 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 <u>onsite</u> and <u>offsite</u> 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.

	MERGENCY PLAN	PROCEDURE NO. EPIP-11	
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4.1.3	The functions performed in	the TSC are:	
	(1) Manage onsite emerger	cy response.	
	(2) Direct onsite radiolo	gical protection	activities.
	(3) Direct emergency main	tenance.	
	(4) Direct personnel acco	untability and si	te security.
	(5) Direct safety and haz	ards control.	
	(6) Perform engineering a Room support.	nd technical anal	ysis for Contro
	(7) Perform reactor analy	sis.	
	(8) Provide emergency I&C	support.	
	(9) Provide computer and	chemistry technic	al support.
	(10) Direct Inplant/Onsite		
4.1.4	The TSC radiological emerge calibrated radiological mon clothing, portable lighting	ncy kit contains	a supply of
4.1.5	Activation of the Satellite declaration of a NOTIFICATI	TSC shall take p ON OF UNUSUAL EVE:	lace upon
4.1.6	Activation of the TSC and a staff by the <u>onsite</u> Emergen upon declaration of an ALER	cv Organization el	adl take -1
4.2 Pre	requisites		
4.2.1	A NOTIFICATION OF UNUSUAL E classification has been made	VENT or higher em	ergency

	RGENCY PLAN	PROCEDURE NO. EPIP-11	
	RT CENTER/SATELLITE TSC IVATION	REVISION 5	Page 9 of 48
4.3 Instru	ctions		
4.3.1 Act	tivation of the Satellite	TSC	
4.3.1.1	The following <u>onshift</u> E shall report to the aff	mergency Organiza ected unit Satell	tion personnel ite TSC:
	<ol> <li>The affected unit Supervisor of the (Onshift Emergency "Notification Of U Actions," EPIP-04, EPIP-05, "Site Are EPIP-06, "General</li> </ol>	designated unaffe Coordinator) - E nusual Event Impl "Alert Implement a Emergency Imple	cted unit PIP-03, ementing ary Actions," monting Actions "
	(2) Shift Technical Ad Technical Advisor	visor - Appendix Response."	A, "Shift
	(3) Designated Radiation (Radiation Protect) "Radiation Protect)	ion Monitor) - An	Dendiy P
	(4) Designated Nuclear	Operator (STSC C	ommunicator)
4.3.1.2	The following <u>onsite</u> Eme shall report to the affer required) to relieve the	Acted unit Satall	ita TCA /IE
	(1) Radiation Protectio	on Monitor - Appen	ndix B.
4.3.1.3	The affected Unit Super: Shift Supervisor) shall position of Operations A and operational advice t ensure that information TSC and the Control Room Advisor (Onsite) Response	report to the STA Advisor. He prove to the Shift Super flow is maintained as per Appendix	SC and assume the ides technical rvisor, and
	liminary Activation of th		

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	RGENCY PLAN	NO. EPIP-11		
TECHNICAL SUPPO	RT CENTER/SATELLITE IVATION	TSC REVISION	Page 10 of 48	
4.3.2.1	The Security Shift Captain shall report to the TSC, assume the duties of Security Director as per Appendix "Security Director Response."			
4.3.3 Con	plete Activation o	of the Technical Suppo	ort Center	
4.3.3.1	All Emergency Organization personnel reporting to the TS 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 th TSC as per Appendix D, "Technical Engineering Coordinato (ONSITE) Response."			
4.3.3.3	The Security Director of the <u>onsite</u> 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 ons shall report to the function:	ite Emergency Organiz he TSC and perform th	ation personnel eir designated	
	(1) Emergency Coo and EPIP-06,	ordinator - EPIP-03, "Emergency Coordinat	EPIP-04, EPIP-05, or Response."	
	(2) Technical En "Technical En	gineering Assistant - ngineering Assistant	Appendix E, Response."	
	(3) Radiological "Radiological Response."	Protection Coordinat l Protection Coordina	or - Appendix F, tor (Onsite)	
	(4) NRC Liaison - Liaison - Hea	- Health Physics - App alth Physics Response	pendix G, "NRC	
	(5) Emergency Ma: "Emergency Ma Response."	intenance Coordinator aintenance Coordinator	- Appendix H, r (Onsita)	

	RGENCY PLAN	PROCEDURE NO. EPIP-11		
	RT CENTER/SATELLITE TSC IVATION	REVISION 5	Page 11 of 48	
	(6) Hazards Control C	Coordinator - Anno	din y lluranda	
	Control Coordinat	or (Onsite) Respon	se."	
	(7) Personnel Resourc "Personnel Resour	es Coordinator - A ces Coordinator (O	ppendix K, nsite) Response."	
	(8) Chemistry Coordin Coordinator (Onsi	ator - Appendix L, te) Response."	"Chemistry	
	(9) Reactor Analyst - (Onsite) Response	Appendix M, "Reac "	tor Analyst	
	(10) Computer Support Support Coordinat	Coordinator - Appe or (Onsite) Respon	ndix N, "Computer se."	
	(11) Field Team Commun Communicator (Ons	icator - Appendix ite) Response."	O, "Field Team	
	(12) Information Monit Monitor Response.	•r - Appendix P, "	Information	
	(13) Operations Coordi Coordinator (Onsi	nator - Appendix Q te) Response."	, "Operations	
	<pre>(14) NRC Liaison - Ope - Operations Resp</pre>	rations - Appendix onse."	R, "NRC Liaison	
	(15) Clerical Aide/Sta "Clerical Aide/St	tus Board Keeper-T atus Board Keeper-	SC - Appendix S, TSC Response."	
4.3.4 De	claration of TSC Readine	55		
4.3.4.1	readiness and notify t	onsite Emergency Coordinator shall assure TSC liness and notify the onsite emergency response lities that the TSC is activated.		
4.3.4.2	coordinator shall reli	activation of the TSC, the <u>onsite</u> Emergency dinator shall relieve the onshift Emergency dinator of the Emergency Coordinator functions.		

IMPLEMENTING	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX A Page 1 of 1
	CENTE SATELLITE TSC	REVISION 5	Page 12 of 48
POSITION FILLED BY: RESPONSIBILITY:	SHIFT TECHNICAL ADVIS (1) Shift Technical A Advise and assist the on assessing plant co monitor SPDS, develop data to Control Room	Advisor e Shift Supervisor conditions. Activate and p trend data and provide these	
ACTIONS		personner.	
1.	Report to STSC.		
2.	Activate the SPDS.	•	
#3.	Monitor the SPDS.	nd provide these data to the Shift Control Room personnel.	
	Develop trend data and		
*4.	Supervisor and other	Control Room pers	onnel.

* Continuing Activity

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX B Page 1 of 3	
	CENTER/SATELLITE TSC	REVISION 5	Page 13 of 48	
RADIATION PROTECTION MONITOR RESPONSE				
POSITION FILLED BY:	(1) Radiation Protec	tion Technician f	rom affected unit	
<u>RESPONSIBILITY</u> :	Provide initial onsit Initially direct fiel technical advice to E radiological conditio recommendations. Mon activities of <u>onsite</u> relieved of dose asse responsibilities by R or the Radiological A Control Room with app	d monitoring team mergency Coordina ns and protective itor radiological Emergency Organiz ssment and field adiological Prote ssessment Coordin	s. Provide tor concerning action assessment ation upon being monitoring ction Coordinator ator. Provide	
IMMEDIATE ACTIONS				
1.	Report to the STSC up	on notification		
2.	Ensure operational st.	atus of dose calc	ulation computer.	
3.	Perform initial offsi EPIP-14A, "Release Ra "Initial Dose Assessm	te Determination	" and 1/D	
4.	Inform <u>onshift</u> Emerger projection esults and protective actions are "Protective Action Gu	d assist in deter	mining whee	
÷5.	Direct activities of o Teams per EPIP-16, "In and EPIP-17, "Onsite/0	in ant Surveys an	d Campling !!	
*6.	Evaluate need to admin per EPIP-26, "Potassin	nister Potassium um Iodide (KI) Adu	Iodide (KI) ministration."	
7.	If OSC is activated, a Radiological Assessmen	contact OSC Coord nt Line, to ensur	inator, using the e that:	
	<ol> <li>Sufficient radiolo available to OSC p</li> <li>Continuous habitab rate, contaminatio OSC.</li> </ol>	personnel. Dility surveys (a	irborne dore	
* Continuing Activity	. /			
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	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX B Page 2 of 3	7
-	TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 14 of 48	15

#### 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.

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#### Search and Rescue

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

* Continuing Activity PV216-000A (8/82)

IMPLEMENTING	GENCY PLAN PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX B Page 3 of 3
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 15 of 48
Acti	vation of Onsite Emerge	ency Organization	
15.	Contact Radiological using the Radiologica Assessment Line, to p	1 Assessment Line	or Environmental
	(1) OSC radiation pro	tection status	
	(2) Status of onsite/	in-plant field mo	nitoring teams
	(3) Transfer of respo Radiological Protection Coordin		ve to
16.	Transfer control of o projections, protectiv Radiological Assessmen of the EOF.	ve action recomme	ndations to the
			and the second
*17.	Monitor radiological a Emergency Organization personnel with appropr	n and provide Con	Erol Room

* Continuing Activity

PVNGS EMERGENCY PLAN	FROCEDURE		
IMPLEMENTING PROCEDURE	NC. EPIP-11	APPENDIX C Page 1 of 6	
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 16 of 48	
SECURITY DIRE RESPONSE			
		/	
SITION FILLED BY: Security Shift Capta Manager, Operations Security Shift Capta	Security (Onsite)	JY &	
SPONSIBILIN: Provide for site sec accountability, evac Call out the Emergen the Emergency Coordi	uation and medical	Franchartarian	
MEDIATE ACTIONS	/		
1. Report to TSC. Upon Staffing Board and e	arrival, sign in stablish responsib	on the TSC le area.	
<ol> <li>If necessary, assign as Security Shift Cap Security Building.</li> </ol>	a Security Shift ptain. Have him r	Sergeant to act	
3. Inform Access Roint ( access to only those	Guards to limit pr possessing ACADs.	otected area	
4. Call in additional per emergency classificat Coordinator (EC) by t	LION as directed h	Fmoreners	
NOTE			
If the Auto Dialer at PVNGS 411 Building Security and re activated at the 411 Buildin	quest the evetor !	APS	
5. If the Auto Dialer Li either the primary, a an Emergency Organiza Emergency Coordinator respondent.	ilternate or backup tion position, ini	respondent for	
EQUENT ACTIONS			
<ol> <li>Contact Security Shif or and establis access by arriving of</li> </ol>	h security measure	s for station	
or higher).			

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX C Page 1 of 6	
	CENTER/SATELLITE TSC	REVISION 5	16a Page 16 of 48	
	SECURITY DIREC RESPONSE	TOR		
POSITION FILLED BY:	Security Shift Captai Manager, Operations S Security Shift Captai	ecurity (Onsite)		
RESPONSIBILITY: Provide for site security, access control, personnel accountability, evacuation and medical transportation Call out the Emergency Organization, upon direction for the Emergency Coordinator.				
IMMEDIATE ACTIONS				
1.	Report to TSC. Upon Staffing Board and es	arrival, sign in tablish responsib	on the TSC le area.	
2.	If necessary, assign as Security Shift Cap Security Building.	a Security Shift tain. Have him r	Sergeant to act eport to the	
3.	Inform Access Point G access to only those	possessing ACADs.		
4. Notify except during day shift hours (ie., 7:00am-3:30pm, M-F), Gall-in additional personnel, appropriate to the emergency classification as directed by Emergency Goordinator (EG) by utilizing automatic dialing syst				
	NOTE			
411 B	e Auto Dialer at PVNGS uilding Security and re ated at the 411 Buildin	quest the system	APS	
5.	If the Auto Dialer Li either the primary, a an Emergency Organiza Emergency Coordinator respondent.	lternate or backu tion position, in	p respondent for form the	

SUBSEQUENT ACTIONS

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

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX C Page 2 of 6	7
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 17 of 48	-

#### SECURITY DIRECTOR RESPONSE (Continued)

#### TSC Access

 Determine need for additional security personnel and contact as necessary. 5

- Remain at TSC and complete following, as necessary, until relieved by <u>Onsite</u> 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.
- 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.) and the Craft Access Point guard (ext.) that assembly and accountability are in progress and to assist existing personnel.
- 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)
- Receive accountability reports from Security Shift Captain for Assembly Areas in protected area.

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE			PROCEDURE NO. EPIP-11	APPENDIX C Page 3 of 6	
TECHNICAL	SUPPORT ACTIV	CENTER/SATELLITE TSC ATION	REVISION 5	Page 18 of 48	
	17.	Report protected area Coordinator within 30	accountability t minutes.	o Emergency	
	18.	Receive accountabilit Captain from site ass	y reports from Se embly area.	curity Shift	
	19.	Direct security to ro buildings to ensure t	utinely check ANP hey are not occup	P controlled ied.	
	20.	Report overall accoun to EC as soon as prac	tability <u>outside</u> p ticable.	protected area	
	21.	Arrange to pick up In each area as soon as p	dividual Accountal practicable.	bility Sheets for	
		Search and Res	cue		
	22.	Inform EC of missing of known location so that EPIP 21, "Search and I	t search and rescu	nnel and last le can begin per	
		Onsite Evacuat:	ion		
	23.	Obtain information fro assembly area evacuat: evacuation route.	om Emergency Coord ion order, reassen	dinator on ably area and	
	24.	Contact Maricopa Count telephone or radio to evacuation route point reassembly area.	request traffic a	issistance at kou	
	25.	Dispatch a Security ve Member as Evacuation 7 to prepare to lead the area.	Team Leader to Bed	thel Gate No 1	
	26.	Contact Construction S (ext. and red traffic at the various	uest a Security T	ione Team to control	
	27.	Contact the Bus Transp (ext. to depl Construction Office pi Operations pickup point Facility pickup point. of the reassembly area	loy buses to the A lokup point, the N at, and the Water Have him inform	NPP/Bechtel Nuclear Reclamation	

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX C Page 4 of 6
	T CENTER/SATELLITE TSC VATION	REVISION 5	Page 19 of 48
	SECURITY DIRE RESPONSE (Cont		/
28.	Dispatch Security For to assure the follow different order is sy Coordinator):	ing order of evacu	ation (unless a
	<ol> <li>Bechtel parking Gate No. 1, 2,</li> </ol>	g lots (personal v and 3	ehicles) via
	(2) ANPP/Bechtel Co Gate No. 3	onstruction Office	buses via
	(3) ANPP van pools	via Gate No. 1A	
	(4) ANP parking 10 No. 3A	ots (personal vehi	cles) via Gate .
	(5) ANPP Nuclear Of	perations buses vi	a Gate No. 3A
양 건강 문화		lamation Facility	
29.	Contact the Radiolog: assure that a monitor been dispatched to th	ring/decontaminati	on team has
30.	Contact the reassembly Inner or Has and inform them of the	Sayampa Pump Stat	ion
31.	Contact Assembly Area locations to inform to signal and the location	them of the impend	ing evacuation
/	(1) ANPP Construct:	ion Office ext.	
/		acy Control Center	
/	Bechtel Medical	inform Bechtel Fir Staff to remain office and not to	at the
/	(3) Admin. Annex Bl	ldg. Assembly Area	ext
/		ion Facility ext	
	(5) Visitor's Cente	er ext.	-

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PVNGS E		'		PROCEDURE NO. EPIP-11	APPENDIX C Page 4 of 6
TECHNICAL SU	TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION			REVISION 5	Page 19 of 4
			SECURITY DIREC RESPONSE (Cont:	CTOR inued)	
-	28.	to as diffe	ssure the follow:	rce to bus pickup ing order of evacu pecified by the En	ation (unless a
		(1)	Bechtel parking Gate No. 1, 2,	g lots (personal wand 3	vehicles) via
		(2)	ANPP/Bechtel Co Gate No. 3	onstruction Office	buses via
		(3)	ANPP van pools	via Gate No. 1A	
		(4)	ANPP parking lo No. 3A	ots (personal vehi	icles) via Gaze
• 1 Marrie 11		(5)	ANPP Nuclear Or	perations buses vi	La Gate No. 3A
		(6)	ANPP Water Rec.	lamation Facility	via Gate No. 12
	29.	assur	re that a monito:	ical Protection Co ring/decontamination he reassembly area	ion team has
	30.	Inn	Dor Has	ly area by telepho ssayampa Pump Stat he impending evacu	ion
	31.	locas	tions to inform t	a Supervisor at the them of the impendion of bus pickups	ing evacuation
		(1)	ANPP Construct:	ion Office ext.	
e a persona de las secondos de		(2)	Bechtel Emerges	ncy Control Center	ext.
			Bechtel Medica.	inform Bechtel Fin 1 Staff to remain office and not to	at the
		(3)	Admin. Annex B	ldg. Assembly Are	a ext
		(4)	Water Reclamat	ion Facility ext.	
		(5)	Visitor's Cent	er ext	· · · · ·
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32. Notify been m 33. Dispat	SECURITY DIRE RESPONSE (Cont	inued)	Page 20 of 48
32. Notify been m 33. Dispat	RESPONSE (Cont the Emergency	inued)	. /
33. Dispat	the Emergency ade and the ev	Coordinator that	/
33. Dispat	ade and the ev		preparations have
		acuation signal ma	ay be given.
protec	ildings in the	rce to routinely of Administration and sure all non-essertes.	ea outside the
(ext.) Center	to rou	te Security by tel utinely check the offices, Bechtel	Visitor's
		/	
Geterm	at the of ine if any emer all needs to b	Administrative and	Pump Station area to e needed.
Offsite Emergenc	y Vehicle Perso	onnel Access to PV	NGS
36. Obtain that m	following info	ormation about eme inform the Securi	rgency vehicles ty Shift Captain.
(2) (3)	Color	er identification	number
/	Number of occup		
37. Dispat vehicl	ch a Security F es.	Force Member to ac	company all
to all or con	ow entry to pro tractors called	as Point by teleph btected area of the i to PVNGS who hav i normal accers.	OSA ANPP DATE
	Fire Fightin	1g	
direct locatio	echtel Fire Dep ion from EC, an on and extent o ecial equipment	nd inform of type of fire, special p	upon of fire, recautions,

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TECHNICAL SUPPORT CENTER/SATELLITE TSC	REVISION	20a
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SECURITY DIRECTOR RESPONSE (Couringed)

- 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 (ert. To routinely check the Visitor's Genter, construction offices, Bechtel Warehouse and associated ureas.
- 35. Contact the Evacuation Team Leader by radio or telephone (Palo Verde Inn) Hassayampa Pump Station 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
- Bispatch a Security Force Member to accompany all vehicles.
- 35. Direct Security Access Point by telephone (ext. to allow antry 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 upon direction from EC, and inform of type of fire, location and extent of fire, special precautions, and special equipment.

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX.C Page 6 of 6	
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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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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-11	APPENDIX D Page 1 of 2
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 22 of 48
TEC	HNICAL ENGINEERING COORI RESPONSE	DINATOR (ONSITE)	
POSITION FILLED BY:	<ol> <li>Manager, OPS Engi</li> <li>OPS Engineering S</li> </ol>	neering Supervisor	
RESPONSIBILITY	Direct engineering and development and relate contact with offsite t	l systems analyses d licensing effor	te Maintain
IMMEDIATE ACTIONS			
1.	Report to TSC upon not sign in on the TSC Sta	ification. Upon ffing Board.	arrival,
2.	. Obtain list of equipment out of commission prior to emergency.		ion prior to
*3.	Maintain list of equip emergency.	ment out of commi	ssion during
*4.	Access records managem materials throughout e	ent and obtain ne mergency.	eded technical
5.	Ensure that the follow per their appropriate	ing personnel are appendix:	responding as
	<ol> <li>Chemistry Coordinat</li> <li>Reactor Analyst</li> <li>Computer Support Co</li> <li>Technical Engineer:</li> </ol>	pordinator	
* Continuing Activity			

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX D Page 2 of 2
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 23 of 48

*6. Determine need for additional engineering and technical support personnel, and inform Personnel Resources Coordinator. 5

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SUBSEQUENT ACTIONS

- * 7. Assist Emergency Coordinator as needed to determine corrective actions.
- * 3. 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

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-11	APPENDIX E Page 1 of 1	
TECHNIC	AL SUPPOR	T CENTER/SATELLITE TSC	REVISION 5	Page 24 of 48
		TECHNICAL ENGINEERING RESPONSE	ASSISTANT	
OSITION FIL	LED BY:	(1) Shift Technical	Advisors, off-dut;	y
		<ul> <li>(2) Other designated</li> <li>appropriate train</li> </ul>	personnel with ning	
ESPONSIBILI	TY	Monitor plant system of liaision with Archited status and proposed re	ct-Engineer concer	Maintain rning technical
MMEDIATE AC	TIONS			
	1.	Report to TSC upon not sign in on the TSC Sta	tification. Upon affing Board.	arrival,
	2.	Relieve initial brief: Coordinator and establ	ing from Technical	Engineering
	#3.	Monitor plant systems		
UBSEQUENT A	CTIONS			
	*4.	If so directed, establ Corporate Emergency Ce Operations Ringdown ci	TTAT/Engineering	s link with the Group using the
	÷5.	Maintain communication NSSS Supplier and requ through the CEC/Engine plant status and recom corrective action.	with Architect-E	nnal
	*6.	Inform Technical Engin recommendations and si	eering Coordinato gnificant change	r of proposed in plant status.
	7.	Submit logs and status Technical Engineering ( cancelled.	board undate she	

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-11	APPENDIX F Page 1 of 6
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 25 of 48
RADI	OLOGICAL PROTECTION COO RESPONSE	DRDINATOR (ONSITE)	1
POSITION FILLED BY:	<ol> <li>Manager, Radiolo</li> <li>Radiological Eng</li> </ol>	ogical Services gineer	
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 no sign in on the TSC St responsible area.	stification. Upon affing Board and	arrival, establish
2.	Ensure that the follo	wing are availabl	e:
	<ol> <li>Meteorological ov</li> <li>Procedures and for</li> </ol>	erlays and base m	aps
3.	Ensure operational st	atus of dose calc	ulation computer.
4. Contact Radiation Pr the Radiological Ass Assessment Line and		ssment Line or En	t STSC using vironmental
	(1) Extent of radiolo conditions	gical releases an	d plant
	(2) Location of onsit (if dispatched)	e and offsite mon	itoring teams
	(3) Status of dose as recommendations	sessments and pro (If EOF is not ac	tective action tivated.)
5.	Determine need for ad in dose assessment.	ditional personne	l to assist
6.	Relieve Radiation Pro for control of:	tection Monitor o	f responsibility
	<ol> <li>(1) Onsite field moni</li> <li>(2) Inplant radiologi</li> <li>(3) Release rate dete</li> </ol>	cal controls	e calculations

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-11	APPENDIX F Page 2 of 6
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 26 of 48
7. UBSEQUENT ACTIONS	Inform Emergency Coor conduct dose assessme	dinator when TSC	is ready to
Ons	ite and Inplant Survey	's and Sampling	
8.	Form, brief, and disp Emergency Maintenance Survey and Sampling," Survey and Sampling."	Coordinator per and EPIP-17. "On	EPIP-16 Innlant
9.	Direct that appropria performed.	te surveys and sa	mpling be
*10.	Receive reports from	Inplant/Onsite mo	nitoring teams.
	Receive reports of sa Protection Technician	mple analysis fro	
*12.	Receive reports on con from Radiation Protect	ntaminated areas tion Technicians.	and/or equipment
	Onsite Evacuat	ion	
13.	Determine the appropri- route in conjunction of	iate reassembly a with Emergency Co	rea and evacuation ordinator.
14.	Dispatch personnel for areas through the Emer	r monitoring at o rgency Maintenance	ffsite reassembly e Coordinator.
*15.	Provide guidance to the at the reassembly area	he Radiation Monis a as requested.	toring Team
Continuing Activity			

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX F Page 3 of 6	
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 27 of 48	

#### Emergency Exposure Guidelines

- *16. Authorize doses up to the limits of 10CFR20.
- Provide the Emergency Coordinator with radiological evaluation of situation and conditions requiring emergency exposures in excess of 10CFR20 limits.
- Complete and sign Radiation Exposure Permit (75RP-92244, "Radiation Exposure Permits") or designate individual to complete this task.
- 19. Obtain initial estimates of radiation dose of exposed personnel as quickly as possible.
- Report exposures in excess of 10CFR20 (refer to EPIP-18, Appendix B) to Emergency Coordinator.
- 1. 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.
- Obtain bottle(s) of 130mg KI tablets from a Radiological Emergency Kit.
- 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.

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* Continuing Activity

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX F Page 4 of 6
TECHNICAL SUPPOR ACTIV	T CENTER/SATELLITE TSC VATION	REVISION 5	Page 28 of 48
	Personnel Inju	iry	
	following items should tection Coordinator, if tological Support Staff.	possible, or by a	he Radiological member of the
27.	Determine, with advic priorities for:	e of plant nurse,	the order of
	<ol> <li>Treatment</li> <li>Evacuation</li> <li>Decontamination</li> <li>Necessity or protection</li> </ol>		
	(5) Other priorities of conditions.	dictated by radio	ogical/hazardou
28.	Request use of onsite	emergency vehicle	(s).
29.	Designate an individua ambulance to transport	al to prepare the tinjured personne	station 1 to hospital.
30.	Request Security to ca onsite vehicles are un to ambulance personnel	navailable, and to	nce service, if issue dosimetr
31.	Designate individual t patient's location.	to meet and accomp	any ambulance to
32.	Determine emergency ro "Personnel Injury," Ap	oute to be used pe opendix D.	r EPIP-22,
33.	Designate one or more G-M	individuals quali	fied in use of
	survey instruments and accompany patient to h	radiation contro	l procedures to
	Personnel and Area/Eq Monitoring and Deconta	uipment mination	
34.	Determine need for per nation per EPIP-28, "P Decontamination."	sonnel monitoring Personnel Monitori:	and decontami-

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PVNGS EMERGE		PROCEDURE NO. EPIP-11	APPENDIX F Page 5 of 6
	TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		Page 29 of 48
EI	etermine if crucial pnitoring and decont PIP-29, "Area/Equips econtamination."	tamination in acco	rdance with
36. Co	omplete, date, and s	sign Radiation Exp	osure Permit.
	tipulate method of o PIP-29.	decontamination as	described in
	Fire Fightin	ng	
mo	ispatch, upon notifi onitoring team to as ire emergency.	ication by Emergen ssist with radiolo	cy Coordinator, a ogical aspects of
fi de	nstruct monitoring t ighting assistance p econtamination evalu	personnel and supe nations prior to r	rvise
Ree	entry for Emergency	Operations	
PI	ontact OSC Coordinat hone, and provide, is pordinator and Emerg escription of:	in conjunction wit	h Emergency
	<ol> <li>Work to be perfor</li> <li>Number of people</li> <li>Necessary tools,</li> <li>Radiological cond</li> </ol>	work requires spare parts, and	equipment
ra	rovide Emergency Coo adiological evaluati mergency	ordinator, if requient ion of situation(s	ired, with ) requiring
er	xposure(s) and compl uthorizing emergency PIP-18.	lete Radiation Exp 7 exposure in acco	osure Permit ordance with
Ra	omplete or designate adiation Exposure Pe quipment, allowable atlined in EPIP-25.	ermit detailing so	petific protoction

 Obtain initial estimates of radiation dose of exposed personnel as soon as possible.

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX F Page 6 of 6	
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 30 of 48	

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.

> * 51.1

* Continuing Activity

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PVNGS EMER		PROCEDURE NO. EPIP-11	APPENDIX G Page 1 of 1
TECHNICAL SUPPORT ACTIV	CENTER/SATELLITE TSC ATION	REVISION 5	Page 31 of 48
	NRC LIAISON - HEALT RESPONSE	H PHYSICS	
POSITION FILLED BY:	ALARA Staff Engineer		
RESPONSIBILITY:	Establish continuous provide radiological Emergency Response Te	information until	the NRC
IMMEDIATE ACTIONS			
1.	Report to TSC. Upon TSC Staffing Board an	arrival, sign in d establish respo	on the ensible area
2.	Receive briefing from Coordinator on radiol	the Radiological ogical status.	Protection
*3.	Establish continuous PBX phone.	communications wi	th the NRC using
4.	Provide initial radio	logical condition	is to the NRC.
SUBSEQUENT ACTIONS			
*5.	Maintain continuous c the NRC Emergency Res	ommunications wit ponse Team arrive	th the NRC until as onsite.

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* Continuing Activity

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-11	APPENDIX H Page 1 of 2
	RT CENTER/SATELLITE TSC IVATION	REVISION 5	Page 32 of 48
EMERGE	NCY MAINTENANCE COORDINA	TOR (ONSITE) RESPO	DNSE
POSITION FILLED BY:	<ol> <li>Manager, Mainter</li> <li>Superintendent N</li> </ol>	nance MCC	
RESPONSIBILITY	Assume responsibility Coordinate repair and directing the OSC Coo Emergency Repair Team	d damage control is ordinator to assen	including
IMMEDIATE ACTIONS			
1.	Report to TSC upon no sign in on the TSC St responsible area.	otification. Upor affing Board and	arrival, establish
2.	Establish contact wit dedicated OSC Line.	th the OSC Coordin	ator via the
3.	Receive requests for the OSC Coordinator t	all emergency tea to form these team	ms and direct s.
4.	Access records manage	ment and obtain n	eeded materials.
5.	Determine need for ad personnel and inform Coordinator.	ditional maintena the Personnel Res	nce support ources
UBSEQUENT ACTIONS			
	Emergency Stat	us	
*6	Provide periodic updates to the OSC Coordinator of the status of the emergency.		ordinator of the
	Emergency Reentry an	d Repair	
*7.	Assess operation of p electrical, and I&C e	lant systems incl quipment.	uding mechanical,
#8.	Advise Emergency Coor with repair, maintena Repair Teams.	dinator on matter nce, and deployme	s dealing nt of Emergency

* Continuing Activity

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX H Page 2 of 2	
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 33 of 48	

#### 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

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

* Continuing Activity

PVNGS EMER	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX I Page 1 of 1
TECHNICAL SUPPORT ACTIV	CENTER/SATELLITE TSC ATION	REVISION 5	Page 34 of 48
HAZAR	DS CONTROL COORDINATOR	(ONSITE) RESPONSE	
POSITION FILLED BY:	<ol> <li>Health and Safet</li> <li>Safety Engineer</li> </ol>	y Administrator	
RESPONSIBILITY:	Advise Emergency Coor safety of plant perso potential or actual t chemical spills.	nnel. Evaluate h	azards of
IMMEDIATE ACTIONS			
1.	Report to TSC upon no sign in on the TSC St responsible area.	tification. Upon affing Board and	arrival, establish
2.	Determine areas that personnel and inform 1 Coordinator through the Coordinator.	Emergency Coordin	ator and OSC
3.	Assist Radiological P: ALARA considerations.	rotection Coordin.	ator with
UBSEQUENT ACTIONS			
	Search and Reso	cue	
4.	Request the Emergency direct the OSC Coordin Search and Rescue Team	nator to assemble	dinator to and dispatch
5.	Complete Search and Re EPIP-21, "Search and F	escue information Rescue," Appendix	sheet in D.
6.	Notify Emergency Coord rescue efforts.	inator of results	s of search and
	Fire Fighting		
7.	Provide technical advi an emergency.	lce to Fire Team I	leader during

IMPLEMENTING	GENCY PLAN	PROCEDURE NO. EPIP-11	APPENDIX J Page 1 of 1
TECHNICAL SUPPORT ACTIV	CENTER/SATELLITE TSC ATION	REVISION 5	Page 35 of 48
	OPERATIONS ADVISOR RESPONSE	(ONSITE)	
POSITION FILLED BY:	<ol> <li>(1) Operations Super</li> <li>(2) Operations Day S</li> </ol>	intendent of affe hift Supervisor o	ected unit of affected unit
RESPONSIBILITY:	Act as management lia plant conditions and Emergency Coordinator TSC and Control Room. procedures for conduc	advise Shift Supe . Ensure informa Assist in devel	ervisor and ation flow between comment of
MMEDIATE ACTIONS			
1.	Report to STSC upon n	otification.	
UBSEQUENT ACTIONS			
	STSC Activation/Op	eration	
*2.	Provide to chnical and Supervisor and Emerge	operational advi ncy Coordinator,	ce to Shift as necessary.
*3.	Analyze conditions us guidance to Emergency personnel.	ing SPDS and CRAC Coordinator and	S and provide Operations
#4.	Establish communication (Onsite) in the TSC.	ons with the Oper	ations Coordinator
*5.	Assist in developing for conducting emerged	emergency procedu ncy operations.	res as necessary
	Emergency Classifi	cation	
*6.	Advise Emergency Coord Coordinator (Onsite) classification of emer EMERGENCY or GENERAL 1	as to plant statu	s and re-
# Continuing Activity			

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PVNGS EMER	GENCY PLAN PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX K Page 1 of 2	
TECHNICAL SUPPORT ACTIV	CENTER/SATELLITE TSC	REVISION 5	Page 36 of 48	
PE	RSONNEL RESOURCES COORD RESPONSE	NATOR (ONSITE)		
POSITION FILLED BY:	<ol> <li>Adminstrative Se</li> <li>Manager, Office</li> </ol>	rvices Manager Services		
RESPONSIBILITY	Relieve Security Dire callout of additional hour emergency respon OSC Coordinator in me OSC. Serve as primary	emergency person se organization s eting the manning	nel. Plan for 24 taffing. Assist	
IMMEDIATE ACTIONS				
1.	Report to TSC upon no sign in on the TSC St responsible area.	tification. Upon affing Board and	arrival, establish	
2.	Assist Security Direc EPIP-20, "Personnel A	tor with accountai ssembly and Accourt	bility per mtability."	
3.	Develop 24-hour manni. staffing as required.	ng requirements ar	nd augment	
4.	Assess and assist OSC manning requirements of	Coordinator in me of the OSC.	eting the	
5.	Assign one Clerical A: to the Technical Engin the status boards.	ide/Status Board M meering Coordinato	eeper to report or and maintain	
SUBSEQUENT ACTIONS				
Pe	rsonnel Assembly and Ac	countability		
ó.	Assume role of primary Assembly Area Supervisor for TSG			
7.	Record names and badge reported to TSC on Ind per EPIP-20.	numbers of perso	anel who have	

 Contact Security Shift Captain and inform of personnel and badge numbers accounted for.

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX K Page 1 of 2
ACTI	T CENTER/SATELLITE TSC VATION	REVISION 5	Page 36 of 48
P	ERSONNEL RESOURCES COORD RESPONSE	DINATOR (ONSITE)	Sec. S.
POSITION FILLED BY:	<ol> <li>Adminstrative Se</li> <li>Manager, Office</li> </ol>	rvices Manager Services	
RESPONSIBILITY	Relieve Security Dire callout of additional hour emergency respon OSC Coordinator in me OSC. Serve as primary	emergency person se organization s eting the manning	nel. Plan for 24 taffing. Assist
IMMEDIATE ACTIONS			
1.	Report to TSC upon no sign in on the TSC St responsible area.	tification. Upon affing Board and	arrival, establish
2.	Assist Security Direc EPIP-20, "Personnel A	tor with accountai ssembly and Accourt	bility per htability."
3.	Develop 24-hour manni staffing as required.		
4.	Assess and assist OSC manning requirements of	Coordinator in me of the OSC.	seting the
5.	Assign one Clerical A: to the Technical Engin the status boards.	ide/Status Board M neering Coordinato	Geeper to report or and maintain
SUBSEQUENT ACTIONS			
P	ersonnel Assembly and Ad	countability	
ό.	Assume role of primary		pervisor for TSC
7.	Record names and badge reported to TSC on Ind per EPIP-20.	numbers of perso	anal who have

Contact Security Shift Captain and inform of personnel and badge numbers accounted for. 8.

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX K Page 2 of 2	
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 37 of 48	
FERSONNEL RESOURCES COORDINATOR (Continued)	(ONSITE) RESPONSE		_

Security

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

* Continuing Activity

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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.	PVNGS EMER	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX L Page 1 of 1
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.         INMEDIATE 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 to determine needs concerning plant chemistry data.         UESEQUENT ACTIONS       *5.         *5.       Evaluate coolant samples and air samples and interpret results of chemical analyses and assist Technical	TECHNICAL SUPPORT ACTIV	CENTER/SATELLITE TSC		Page 38 of 48
<ul> <li>(2) Chemist</li> <li>(2) 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.</li> <li>(2) Chemist</li> <li>(2) Chemist</li> <li>(2) Chemist</li> <li>(2) Chemist</li> <li>(3) Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.</li> <li>(4) Contact onshift Chemistry Technician using regular phone line and obtain pertinent chemistry plant data.</li> <li>(5) Determine the need for additional chemistry support personnel, and inform the Technical Engineering Coordinator.</li> <li>(5) Confer with Technical Engineering Coordinator to determine needs concerning plant chemistry data.</li> </ul>			DR (ONSITE)	
<ul> <li>to aid in diagnosing reactor core conditions and release potentials. Interpret results of chemical analyses for evaluation of plant systems.</li> <li>IMMEDIATE ACTIONS <ol> <li>Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.</li> <li>Contact <u>onshift</u> Chemistry Technician using regular phone line and obtain pertinent chemistry plant data.</li> <li>Determine the need for additional chemistry support personnel, and inform the Technical Engineering Coordinator.</li> <li>Confer with Technical Engineering Coordinator to determine needs concerning plant chemistry data.</li> </ol> </li> <li>SUBSEQUENT ACTIONS </li> </ul>	POSITION FILLED BY:	<ol> <li>Manager, Chemica</li> <li>Chemist</li> </ol>	al Services	
<ol> <li>IMMEDIATE ACTIONS         <ol> <li>Report to TSC upon notification. Upon arrival, sign in on the TSC Staffing Board and establish responsible area.</li> <li>Contact <u>onshift</u> Chemistry Technician using regular phone line and obtain pertinent chemistry plant data.</li> <li>Determine the need for additional chemistry support personnel, and inform the Technical Engineering Coordinator to determine needs concerning plant chemistry data.</li> </ol> </li> <li>SUBSEQUENT ACTIONS         <ol> <li>*5. Evaluate coolant samples and air samples and interpret results of chemical analyses and assist Technical</li> </ol> </li> </ol>	RESPONSIBILITY:	release potentials.	reactor core cond Interpret results	itions and
<ul> <li>Sign in on the TSC Staffing Board and establish responsible area.</li> <li>Contact <u>onshift</u> Chemistry Technician using regular phone line and obtain pertinent chemistry plant data.</li> <li>Determine the need for additional chemistry support personnel, and inform the Technical Engineering Coordinator.</li> <li>Confer with Technical Engineering Coordinator to determine needs concerning plant chemistry data.</li> <li>SUBSEQUENT ACTIONS</li> <li>*5. Evaluate coolant samples and air samples and interpret results of chemical analyses and assist Technical</li> </ul>	IMMEDIATE ACTIONS			
<ul> <li>phone line and obtain pertinent chemistry plant data.</li> <li>3. Determine the need for additional chemistry support personnel, and inform the Technical Engineering Coordinator.</li> <li>4. Confer with Technical Engineering Coordinator to determine needs concerning plant chemistry data.</li> <li>SUBSEQUENT ACTIONS</li> <li>*5. Evaluate coolant samples and air samples and interpret results of chemical analyses and assist Technical</li> </ul>	1.	sign in on the TSC St	tification. Upon affing Board and	arrival, establish
<ul> <li>4. Confer with Technical Engineering Coordinator to determine needs concerning plant chemistry data.</li> <li>SUBSEQUENT ACTIONS</li> <li>*5. Evaluate coolant samples and air samples and interpret results of chemical analyses and assist Technical</li> </ul>	2.	Contact <u>onshift</u> Chemi phone line and obtain	stry Technician us pertinent chemist	sing regular try plant data.
UBSEQUENT ACTIONS *5. Evaluate coolant samples and air samples and interpret results of chemical analyses and assist Technical	3.	personnel, and inform	r additional chem: the Technical Eng	istry support gineering
*5. Evaluate coolant samples and air samples and interpret results of chemical analyses and assist Technical	4.	Confer with Technical determine needs conce	Engineering Coord rning plant chemis	finator to stry data.
results of chemical analyses and assist Technical	SUBSEQUENT ACTIONS			
	*S.	resurcs or chemical a	nalyses and assist	es and interpret Technical

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* Continuing Activity

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE			PROCEDURE NO. EPIP-11	APPENDIX M Page 1 of 1	
	PPORT CENTER/SA ACTIVATION	TELLITE TSC	REVISION 5	Page 39 cf 48	
	REAC	TOR ANALYST RESPONSE			
POSITION FILLED		ervisor, Rea d Reactor En	ctor Engineering gineer		
RESPONSIBILITY:	transfer	Perform detailed analyses of core physics and heat transfer parameters. Assess reactor core status and evaluate the integrity of and fuel cladding.			
IMMEDIATE ACTIONS					
	sign in	o TSC upon n on the TSC S ble area.	otification. Upon taffing Board and	arrival, establish	
	2. Assess c	Assess core parameters.			
:	<ol> <li>Access r material</li> </ol>	ecords manag s.	ements and obtain :	needed technical	
	4. Determin and info	e need for a rm the Techn	dditional reactor ical Engineering C	support personnel pordinator.	
	5. Inform T recommen	echnical Eng dations for	ineering Coordinate	or of	
SUBSEQUENT ACTION					
	the inte	grity of play	analyses and assess nt systems and ass tor, as necessary.	s and evaluate ist Technical	
	#7 Contact ( needed by	Corporate And y normal phor	alytical Support (I	Deer Valley) as	

* Continuing Activity

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PVNGS EMER	Contract of the second second second	PROCEDURE NO. EPIP-11	APPENDIX N Page 1 of 1
TECHNICAL SUPPORT ACTIV	CENTER/SATELLITE TSC ATION	REVISION 5	Page 40 of 48
C	OMPUTER SUPPORT COORDIN. RESPONSE	ATOR (ONSITE)	
POSITION FILLED BY:	<ol> <li>Supervisor, Hards</li> <li>Computer Engineer</li> </ol>	ware Maintenance r	
RESPONSIBILITY:	Provide continuous sup plant conditions and o	pport of analyses dose assessment.	pertaining to
IMMEDIATE ACTIONS			
1.	Report to TSC upon not sign in on the TSC Sta responsible area.	tification. Upon affing Board and	arrival, establish
2.	Access CRACS and SPDS	as requested.	
3.	Determine need for add and inform the Technic	ditional computer al Engineering Co	support personnel pordinator.
SUBSEQUENT ACTIONS			

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

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* Continuing Activity

PVNGS EMER		PROCEDURE NO. EPIP-11	APPENDIX O Page 1 of 1
TECHNICAL SUPPORT ACTIV	CENTER/SATELLITE TSC ATION	REVISION 5	Page 41 of 48
	FIELD TEAM COMMUNICAT RESPONSE	OR (ONSITE)	
POSITION FILLED BY:	(1) Radiation Protec	tion Section Stat	ff Member
RESPONSIBILITY:	Maintain direct radio Inplant/Onsite Field Radiological Protecti projections.	Monitoring Teams.	Assist the
IMMEDIATE ACTIONS			
1.	Report to TSC upon no sign in on the TSC St responsible area.	tification. Upor affing Board and	arrival, establish
2.	Report to Radiologica obtain information on Monitoring Teams.	1 Protection Coor deployment of In	dinator and aplant/Onsite
3.	Ensure that radio commoperable.	munications equip	oment is
4.	Synchronize TSC clocks	s with affected u	unit clock.
SUBSEQUENT ACTIONS			
*5.	Maintain communication Monitoring Teams via	ns with Inplant/O radio or plant te	Dnsite Lephone.
"6.	Assist Radiological Pr performance of dose an necessary.	rotection Coordin ssessment calcula	ator in tions as

* Continuing Activity

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX P Page 1 of 1
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		ACTIVATION S Page 42 of	
	INFORMATION MONITOR	RESPONSE	
POSITION FILLED BY:	<ol> <li>Compliance Super</li> <li>Compliance Engin</li> </ol>	visor	
RESPONSIBILITY:	Shall monitor community Coordinator, Operation Advisor and periodica updates to the Onsite	cations between t ns Coordinator, a lly provide emers	ind the Operations
IMMEDIATE ACTIONS			
1.	Report to TSC. Upon a Staffing Board and est	arrival, sign in tablish responsib	on TSC le area.
2.	Establish communication Coordinator, Operation Operations Advisor.	ons link with the as Coordinator an	Emergency d the
3.	If so directed by the a Site Wide P.A. annou activated using the X8	incement that the	nator, make TSC is
☆4.	Provide periodic emerg announcements to the O (OSC, CR, STSC, etc.).	nsite Emergency (	tes via P.A. Organization
÷5,	Verify accuracy of inf Status Board.	ormation posted of	on TSC Event

N .....

* Continuing Activity

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX Q Page 1 of 1
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 43 of 48
OF	PERATIONS COORDINATOR (0)	NSITE) RESPONSE	
POSITION FILLED BY:	<ol> <li>Operations Super unaffected unit.</li> <li>Operations Day Si unaffected unit.</li> </ol>		
RESPONSIBILITY: Receive technical and Operations Advisor an		operational input from the d maintain the flow of information ontrol Room. Report to and assist	
IMMEDIATE ACTIONS			
1.	Report to TSC. Upon a Staffing Board and est	arrival, sign in ablish responsib	on the TSC le area.
2.	Establish communicatic (Onsite) in the STSC.	ons with the Oper	ations Advisor
*3.	Receive data from the report it to the Emerg	Operations Advis ency Coordinator	or (Onsite) and

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* 11 ×

* Continuing Activity

	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX R Page 1 of 1
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 44 of 48
	NRC LIAISION - OPERATI	ONS RESPONSE	
POSITION FILLED BY:	(1) License Training	Instructor	
RESPONSIBILITY:	Assume responsibility with the NRC from STS Emergency Response Te	C Communicator un	til the NRC
IMMEDIATE ACTIONS			
1.	Report to TSC. Upon Staffing Board and es	arrival, sign in tablish responsib	on the TSC le area.
2.	Receive briefing from plant status.	Operations Coord	inator on
3.	Contact STSC Communic communications status	ator and receive	NRC
4.	Assume continuous com Communicator using the	munications with e ENS phone.	NRC from STSC
SUBSEQUENT ACTION			
5.	Maintain continuous co NRC Response Team arr	ommunications wit ives onsite.	h NRC until

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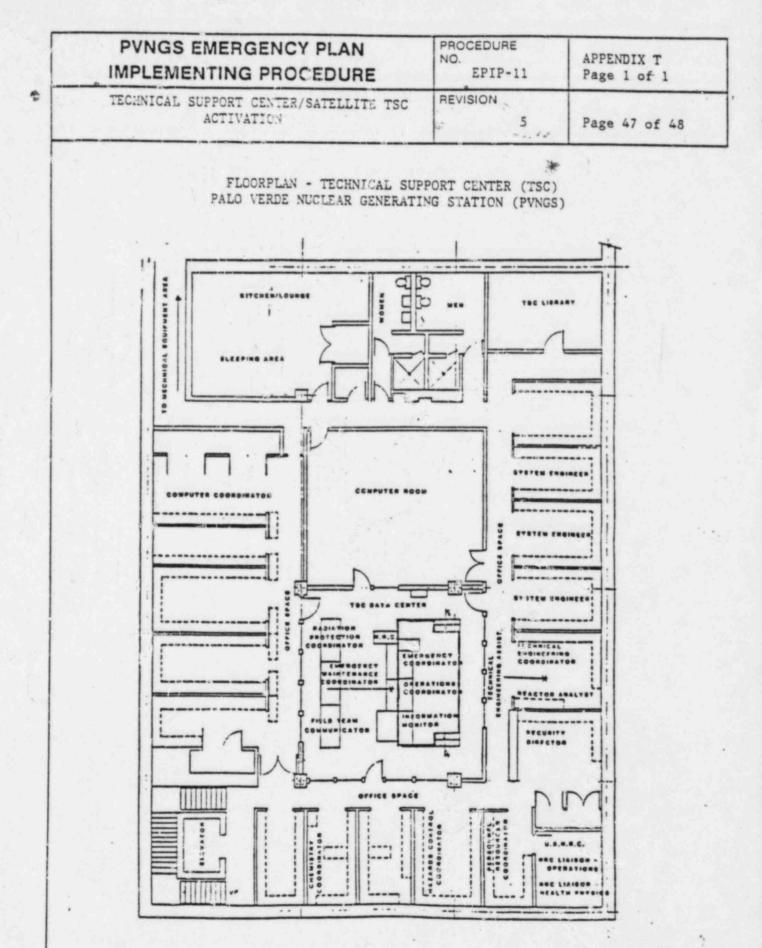
	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX S Page 1 of 2
TECHNICAL SUPPOR ACTI	T CENTER/SATELLITE TSC VATION	REVISION 5	Page 45 of 48
	CLERICAL AIDE/STATUS BOA RESPONSE	RD KEEPER-TSC	
POSITION FILLED BY:	<ol> <li>Designated perso with appropriate training.</li> </ol>	n(s)	
RESPONSIBILITY:	Maintain record of em taken by ANPP Emergen status board. Record emergency.	cv Organization o	n ·
IMMEDIATE ACTIONS:			
1.	Report to TSC upon not on the TSC Staffing Bo	tification. Upon pard.	arrival, sign in
2.	Receive briefing from and establish response	Personnel Resour ible area.	ces Coordinator
3.	Report readiness to Pe	ersonnel Resource:	s Coordinator.
4.	Receive assignment to status from Technical	maintain status H Engineering Coord	boards. Receive
SUBSEQUENT ACTIONS:			
	Status Boards		
	NOTE		
Ensur time	a time recorded on statu rather than posting time	s boards is event	
÷5.	Record status of emerg Engineering Coordinato	ency as expressed r.	by Technical
	Recovery		
6.	Submit check list to P upon cancellation of e	ersonnel Resource mergency.	s Coordinator .

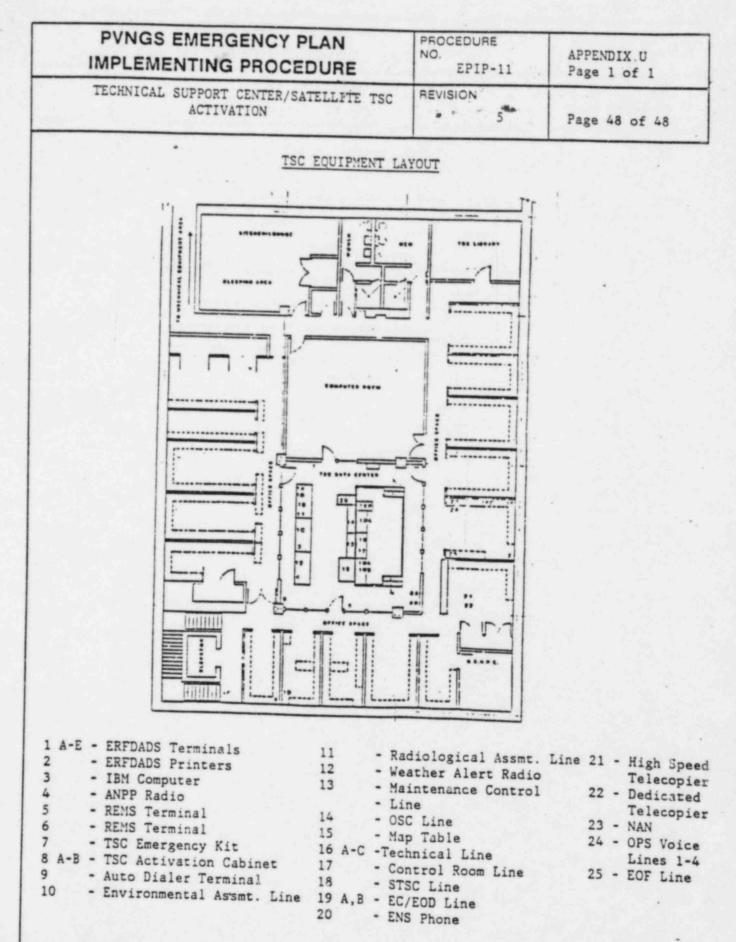
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* Continuing Activity

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TECHNICAL SUPPORT CENTER/SATELLIT ACTIVATION	
	TUS BOARD KEEPER - TSC
- EVEN	IT STATUS
	CLASS:TIME:
As Coolent System  Avg. Tamp. ThY TcY  Ptr. PressurePSIA  Ptr. Level%  Rx Yessel Level%  Bubcool MarginY  BoronPPM Rectrc. Bum Isolation	Date:     Time:     Date:       Wet. Data     Wind Speed     mpn       Inserature     *r     Wind Direction (from)     *true       Humidity     %     Stability Class
Time Date Time: Date Make-up Total SI Plow RWT Level Pumps Available: LPSI HPSi	e:Date: Heat Removel Reacter Choight Punge1A182A28 





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	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-16	
n. (4)	INPLANT SURVEYS AND SAMPLING	REVISION	Page 1 of 13

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DEPT. HEAD COUNTRY Cotton	DATE 3/18/86
PRB/PRG/TRRG REVIEW	DATE 4/2/86
APPROVED BY APPROVED BY	DATE 5/3/86
EFFECTIVE DATE CAOS-SO	" /
DN-16294/01904	

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	EMERGENC		PROCEDURE NO. EPIP-16	
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		REVISION HIS	TOPY	
Rev. No.	Date	Revised Pages		Comments
3	05-10-85	4, 5, 6, 7,		update references
		8, 9, 10, 11,		rectly reflect
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			and sampli	ng
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2.0	REFERENCES	4
3.0	LIMITATIONS AND PRECAUTIONS	5
4.0	DETAILED PROCEDURE	6
	<ul> <li>4.1 Personnel Indoctrination/Responsibilities</li> <li>4.2 Prerequisites</li> <li>4.3 Instructions</li> <li>4.3.1 General Instructions</li> <li>4.3.2 Radiation and Contamination Surveys</li> <li>4.3.3 Particulate and Radioiodine Air Samples</li> </ul>	6 7 7 8 9
	4.3.4 Noble Gas Air Samples 4.3.5 Exiting Controlled Area	10

#### APPENDICES

Appendix A - Inplant Monitoring Team Response

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	EMERGENCY PLAN	PROCEDURE NO. EPIP-16	
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INPLANT	SURVEYS AND SAMPLING	4	Page 4 of 13
1.0 <u>OBJE</u>	TIVE		
1.1 To sur	provide for emergency inpla rveys in the event of a rele	ant radiological mo ease of radionuclic	onitoring and ies.
2.0 <u>REFEI</u>	RENCES		
2.1 Imp	plementing References		
2.1.1	EPIP-17, "Onsite/Offsite :	Surveys and Samplin	ng"
2.1.2	EPIP-18, "Emergency Exposi-	ure Guidelines"	
2.1.3	L'IP-28, "Personnel Monito	oring and Decontam:	ination"
2.1.4	EPIF 9, "Area/Equipment 1	Monitoring and Deco	ontamination"
2.1.5	9N219.05.00, "Document/Red	cord Turnover Conta	rol"
2.2 De	velopmental References		
2.2.1	NUREG-0654, Rev. 1 "Crite Evaluation of Radiologica Preparedness in Support o	1 Emergency Respons	se Plans and
2.2.2	NUREG-0737, "Clarification Requirements," Oct. 1980	n of TMI Action Pla	an
2.2.3	75RP-9ZZ46, "Radiological	Surveys," Rev. 3.	
2.2.4	75RP-92248, "Airborne Rad Measurement," Rev. 3	ioactivity Sampling	g and
2.2.5	75AC-9ZZO1, "Radiation Ex Control," Rev. 2.	posure Authorizatio	on, Permits and
2.2.6	F & J Specialty Products, Cartridge Documentation a Specifications for NRC Au Procedures " 1984.	nd Technical Perfo	mance
2.2.7	ANSI N45.2.9, "Requiremen Maintenance of Quality As Plants," 1974.	ts for Collection, surance Records for	Storage and r Nuclear Power
2.2.8	PVNGS Emergency Plan, Rev	. 6	

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•	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-16		
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	INFLAND SORVEIS AND SAITLING		rage 5 of 15	

#### 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.

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURI	NO.
INPLANT SURVEYS AND SAMPLING	REVISION 4 Page 6 of 13
	NOTE
airborne radioa	conditions may indicate ctivity: a continuous air lid alarm condition or
	is suspected at the survey location oring team is not wearing respirators, eave the area.
3.6.3 If any member of the assigned dose limit.	field monitoring team exceeds their
4.0 DETAILED PROCEDURE	
4.1 Personnel Indoctrination	A/Responsibilities
4.1.1 The Radiation Protect Radiological Protect the implementation of	tion Monitor, until relieved by the tion Coordinator, is responsible for of this procedure.
familiar with operat filters, and survey should be familiar w	in surveying and sampling should be tion of the air samplers, cartridges, instruments. Monitoring Team members with 75RP-92Z48, "Airborne ing and Measurement," and 75RP-92Z46, ys."
4.1.3 Members of Monitoria Operations Support (	ng Teams should proceed to the Center for instructions.
4.1.4 The Operations Support the formation of Ing	ort Center Coordinator shall supervise plant Monitoring Teams.
4.1.5 The Emergency Mainte the RPM/RPC, shall o Inplant Monitoring 7	enance Coordinator, in conjunction with direct the briefing and dispatching of Teams.
4.1.6 The Unit Radiation I technical support for coordination with the	Protection Supervisor shall provide or the inplant survey teams in he RPC.
4.1.7 The Inplant Monitor the RPC at least even portable radio (char	ing Team Leader should communicate with ery 30 minutes via phone and/or nnel #4).

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INPLANT SURV	EYS AND SAMPLING	REVISION 4	Page 7 of 13
1 F			
4.2 Prerequ	lisites		
	ALERT or more severe e P-02, "Emergency Class		classified per
	n protective clothing a cessary.	nd respiratory appa	aratus if
4.2.3 Obt	ain emergency equipment	t from the OSC emer	rgency kit.
	form instrumentation p quired sampling equipme		
4.3 Instru	ctions		
4.3.1 Ge	neral Instructions		
4.3.1.1	The inplant teams sha monitored, specific s special instructions	surveys to be perfo	rmed and any
4.3.1.2	Airborne radioactivit noble gases) should h by the Radiation Prot Protection Coordinate	be sampled or measu tection Monitor or	red as directed
4.3.1.3	The Inplant Monitoria per Appendix <b>A</b> - "Ing	ng Team Leader shal plant Monitoring Te	l respond as am Response."
4.3.1.4	Survey meters should unposted or unexpector readings above 1 R/h: Radiation Protection Protection Coordinate	ed inplant readings r shall be reported Monitor or the Rad	and all to the

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-16	
States and the second		REVISION	
" INPLANT SUR	INPLANT SURVEYS AND SAMPLING	4	Page 8 of 13
4.3.1.5	4.3.1.5 Areas to be surveyed s Radiation Protection M Protection Coordinator surveyed should depend radiation monitor read The major accident can suggested survey areas		iological of areas to be ccident, area survey data.
	Accelerate Trans	Sugge	
	Accident Type	Surve	y Area
	LOCA	All areas arou Areas around o equipment d recirculati	perating ESF uring
	SGTR	Main Steam Lin and Condens	
	WGDTR	Area around WG entire radw	DT including aste building
	FHA	Fuel handling	area
4.3.2 Ra	diation and Contaminat	tion 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-92246, "Radiological Surveys" and report findings to the RPM/RPC.

	RGENCY PLAN	PROCEDURE NO.	
IMPLEMENTI	NG PROCEDURE	EPIP-16	
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	*5		
4.3.2.3	Maintain communication radiation readings whe		
4.3.2.4	If the dose rate excee exposure of any member assigned limit, the er level radiation backgr and await further inst	r of the team exceed ntire team shall ret round area, notify t	is their treat to a low
4.3.3 Pa	rticulate and Radioiodir	ne Air Samples	
	NC	OTE	
	Particulate and radio should be collected a accordance with 75RP- Radioactivity Samplin except as noted below	and documented in -92248, "Airborne ng and Measurement,"	
4.3.3.1	Air sample volumes sho by the RPM/RPC.	ould be 10 ft ³ or as	s directed
4.3.3.2	The maximum flow rate ensure adequate collect zeolite cartidges.		
4.3.3.3	Determine the sampling sample volume of 10ft	g time necessary to and collect sample	collect a a.
		NOTE	
	the air sampler h	ing cartridge binds head, allow several a/s head to cool, ra cartridge.	
4.3.3.4	Disassemble the sample filter in a plastic ba date, time, location, taking sample.	ag and label the bay	g with the
4.3.3.5	Place the silver zeol. label as above.	ite cartridge in a	plastic bag and
4.3.3.6	Deliver the air sample or to an alternate lo	e to the count room cation as directed	for analysis 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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22 전 문헌			
4.3.4 Nob	le Gas Air Samples		
4.3.4.1	Insert AgX cartridge for noble gas samples one day period.	into AgX holder may be used repea	AgX cartridges tedly during a
4.3.4.2	Place filter paper up the holder.	stream of the AgX	cartridge in
4.3.4.5	Attach holder to one chamber (marinelli be		llection
4.3.4.4	Attach tygon tubing t collection chamber an		
		NOTE	
	It may be possil	ole to collect the	noble
		at the same time as	
-		ine sample. Be sur rate does not exce	
4.3.4.5	With both petcocks of	oen, draw a minimum	of 5 volume
	changes or if NG/P/I		
	time select an appro	priace sampling per	.104.
4.3.4.6	Close both percocks	on the gas collect:	ion chamber.
4.3.4.7	Deliver the sample t or to an alternate 1 the RPM/RPC.		
4.3.5 Ex	iting Controlled Area		
4.3.5.1	Notify the RPM/RPC t your intention to re		complete and of
4.3.5.2	Proceed to the neare whole body frisk.	st low background	area and perform a
4.3.5.3	If contaminated, not decontamination proc Monitoring and Decor	edures as per EPIP	
4.3.5.4	Ensure that all surv	vey equipment is su	rveyed and release

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-16	
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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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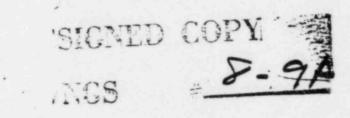
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INPLANT SURVEYS AND SAMPLING	REVISION 4	Page 12 of 13
INPLANT MONITORING 1 RESPONSE	TEAM	
POSITION FILLED BY: Radiation Prote	ection Technician	
RESPONSIBILITY: Perform inplant	t radiation monito	ring.
IMMEDIATE ACTIONS		
1. Report to OSC upon notification.		
2. Obtain briefing from supervisory in	ndividual:	
<ul><li>(a) Radiation Protection Monitor</li><li>(b) Radiological Protection Coord:</li></ul>		
3. Obtain the following equipment as :	required:	
<ol> <li>Legal TLD, job TLD (alarm:</li> <li>(2) Emergency equipment as red</li> </ol>		
4. Check batteries and perform source	check tests on su	rvey instruments.
5. Check batteries in portable radio.		
<ol> <li>Obtain appropriate survey maps and the RP Office.</li> </ol>	forms from the OS	C Emergency Kit or

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	VNGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-16	APPENDIX A Page 2 of 2
	INPLANT SURVEYS AND SAMPLING	REVISION	Page 13 of 13
7.	INPLANT MONITORING T RESPONSE Conduct surveys and sampling for:		
	<ul> <li>a. Dose rate measurements</li> <li>b. Particulate, radioiodine and no</li> <li>c. Contamination levels</li> </ul>	ble gas air sampl	es
8.	Save all samples for recount or dis radioactive waste as directed by th		media as
SUBSEQU	ENT ACTIONS		
9.	Reporting Communicate with the Radiation Prot Radiological Protection Coordinator phone or portable radio.	tection Monitor (o	
	Documentati	ion	
10.	Complete all utilized survey maps a		•
	Decontamina	tion	
	Be checked for contamination. Decontaminate self as required, per Decontamination."	r EPIP-28, "Persor	nel Monitoring and

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			sheet an	d air sample sheet
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1.0 OBJE0	CTIVES				
	the second s	Junio Maria	and States		
mon	provide for emergency onsit hitoring and field surveys a airborne release of radioad	to be undertaken i	in the event of		
2.0 <u>REFE</u>	RENCES				
2.1 Im	plementing References				
2.1.1	EPIP-02, "Emergency Class	ification"			
2.1.2	EPIP-14B, "Initial Dose Assessment"				
2.1.3	75RP-92250 "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 De	velopmental References				
2.2.1	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-92246, "Radiologica	11 Surveys," Rev.	3.		
2.2.3	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-92222, "Onsite Radio Communications," Rev. 0.

2.2.6 FaJ Specialty Products, Inc., "Radioiodine Absorption Cartridge Documentation and Technical Performance Specifications for NRC Audits of Radioiodine Sampling Procedure", 1984.

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	SEMERGENCY PLAN	PROCEDURE NO. EPIP-17	
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3.0 <u>LI</u>	MITATIONS AND PRECAUTIONS		
3.1	Use appropriate protective clo	othing, equipment a	nd respirators
3.2	Ensure that proper dosimetry :	is worn.	
3.3	Control access and egress from	m contaminated area	IS .
	Methods of communication betwee onsite facilities consists of equipped vehicles.		-
	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.		
	If required, obtain keys to Mo the key cabinet in the RP Off.		
	The RERV should be used as a r RP vehicles should be used to		and the other
3.8	Changes in radioactive release radiation protection requirem		
3.9	Definitions and Abbreviations	. 이번 전에 같은 것	
3.9.	1 RERV - Radiological Emerg	ency Response Vehic	le
3.9.	2 RFAT - Radiological Field	Assessment Team	
3.9.	3 RPC - Radiological Protec	tion Coordinator	
3.9.	4 RAC - Radiological Assess	ment Coordinator	
3.9.	5 RACom Radiological Ass	essment Communicato	or
3.9	.6 STSC - Satellite Technica	1 Support Center	
3.9	.7 OSC - Operations Support	Center	
3.9	.8 TSC - Technical Support C	eater	
3.9	.10 EOF - Emergency Operation	s Facility	

	MERGENCY PLAN TING PROCEDURE	PROCEDURE NO. EPIP-17		
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4.0 <u>DETAI</u>	LED PROCEDURE			
4.1 Per	sonnel Indoctrination/Re	sponsibilities		
4.1.1	The Radiation Protection the Radiological Assess responsible for implement	ment Coordinator (RAC)	, is	
4.1.2	Technicians involved in familiar with operation and filters, noble gas Field Monitoring team m 75RP-92248, "Airborne R Measurement," and 75RP-	of the air samplers, chambers, and survey i members should be famil adioactivity Sampling	cartridges nstruments. iar with and	
4.1.3		Members of field monitoring teams should proceed to the Operations Support Center for instructions.		
4.1.4	The OSC Coordinator sha Monitoring Teams.	The OSC Coordinator shall supervise the formation of Field Monitoring Teams.		
4.1.5	The Radiological Assess and the Emergency Maint the briefing and dispat	enance Coordinator, sh	all direct	
4.1.5	with the Radiologic every one half hour	ng Team Leader should o cal Assessment Communic r via portable radio us use radio channel #1.	ator at least	
4.2 Pre	requisites			
4.2.1	An ALERT or more severe the provisions of EPIP-	e emergency has been c. -02, "Emergency Classi	lassified per fication."	
4.2.2	Don protective clothing and respiratory apparatus if necessary.			
4.2.3	Obtain appropriate sam	pling equipment.		
4.2.3	.1 The offsite monitor Offsite Survey Tea	ring teams should obta m Kits from the RERV.	in the	

	RGENCY PLAN	PROCEDURE NO. EPIP-17		
		REVISION		
ONSITE/OFFSITE	SURVEYS AND SAMPLING	3	Page 8 of 1 <b>5</b>	
pe	fsite RFAT members should rform instrument and rad spatched.	d assemble at the io checks prior to	RERV to being	
4.3 Instru	ctions			
4.3.1 Ger	neral Information			
4.3.1.1	The offsite sampling lo the RPM/RAC based on w of 3 sigma Y. The Fie respond as per Appendix Response."	ind direction and ld Monitoring Team	a plume width Leader shall	
4.3.1.2	For plant perimeter sum determine which quadrant TLDs attached at various area fence represent the and may be used as located B.)	nt should be sampl us points along th he center of each	led. Labeled he protected survey sector	
4.3.1.3	Air (radioiodine, part: samples and radiation r each sampling location	measurements shoul	d be taken at	
4.3.1.4	Survey meters should be offsite readings above along with plume center determinable.	0.2 mR/hr should	be reported	
4.3.1.5	All samples should be counted at locations determined by the RPM/RAC.			
4.3.2 Gro	oss Radioactivity Measure	ement (Appendix A)		
4.3.2.1	Determine the dose rate open and closed. Reco	e at 3 feet with t rd these values in	the beta shield Appendix A.	

REVISION       Page 9 of 15         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-92248, "Airborne Radioactivity Sampling and Measurement," except as noted below.         4.3.3.1       Air sample volumes should be 10 ft ³ 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.	ONSITE/OFFSITE SURVEYS AND SAMPLING       REVISION         4.3.2.2       Determine the dose rate at 3 inches above ground letter (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-92248, "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 so:         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 variate air sampler is available.         4.3.3.4       The maximum flow rate should not exceed 2 CFM to e adequate collection efficiency for silver zeolite cartridges.	PVNGS EMER	GENCY PLAN	PROCEDURE NO. EPIP-17	
ONSITE/OFFSITE SURVEYS AND SAMPLING       3       Page 9 of 15         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       Farticulate and Radioiodine Air Samples         A.3.3       Farticulate and radioiodine air samples should be collected and documented in accordance with 75RP-92248, "Airborne Radioactivity Sampling and Measurement," except as noted below.         4.3.3.1       Air sample volumes should be 10 ft ³ 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.	ONSITE/OFFSITE SURVEYS AND SAMPLING       3       Page 9 of the state of				
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adequate collection efficiency for silver zeolite cartridges. 4.3.3.5 Determine the sampling time necessary to collect a sampl	adequate collection efficiency for silver zeolite cartridges. 4.3.3.5 Determine the sampling time necessary to collect a	4.3.3.3	Start the sampler in t rate air sampler is av	the variable positio vailable.	on if a variable
			adequate collection ef	should not exceed 2 fficiency for silve	2 CFM to ensure r zeolite
volume of 10ft ³ and collect sample.			Determine the sampling volume of 10ft ¹ and co	g time necessary to pllect sample.	collect a sampl

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		NOTE	
		allow several min to cool, rather t	utes
4.3.3.6	Disassemble the sample filter in a plastic ba date, time. location, taking sample.	g and label the b	ag with the
4.3.3.7	Place the s .ver zeoli and label as above.	te cartridge in a	plastic bag
4.3.3.8	Transport the sample t location for analysis.		counting
4.3.3.9	At the direction of th in the unit chemistry radioactive material.		
4.3.4 Not	ole Gas Air Samples		
4.3.4.1	Insert AgX cartridge i for noble gas samples one day period.		
4.3.4.2	Place filter paper ups the holder.	tream of the AgX	cartridge in
4.3.4.3	Attach holder to one s chamber (marinelli bea		ollection
4.3.4.4	Attach tygon tubing to collection chamber and		

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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.

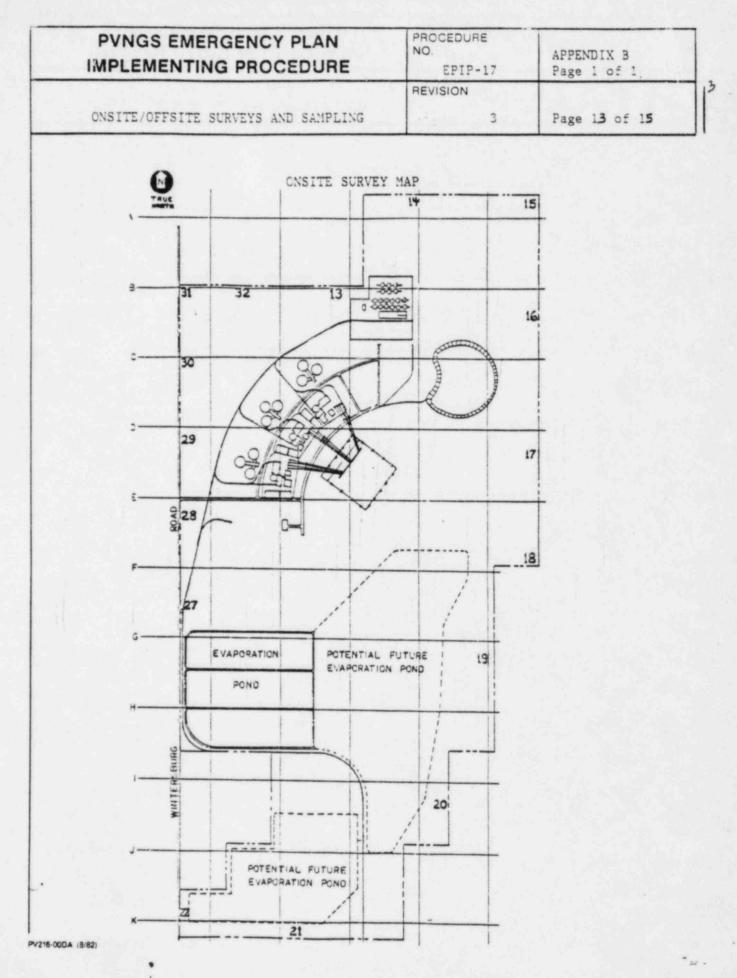
- 4.3.4.5 With both petcocks open, draw a minimum of 5 volume changes or if NG/P/I samples are collected at the same time select an appropriate sampling period.
- 4.3.4.6 Close both petcocks on the gas collection chamber.
- 4.3.4.7 Place the gas collection chamber in a plastic bag. Label the bag with 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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ONSITE/OFFSITE SURVEYS AND SAMPLING	REVISION 3	Page 12 of 15	
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ONSITE/OFFSITE SURVEYS AND SAMPLING	REVISION 3	- Page 14 of 15

#### 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).
- 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.
- Obtain keys to Meterological 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.

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- 6. Conduct surveys and sampling, as required, per EPIP-17 for:
  - (1) Dose Rate Measurements.

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-17	APPENDIX C Page 2 of 2.	
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ONSITE/OFFSITE SURVEYS AND SAMPLING	3	Page 15 of 15	

#### 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

 Communicate with the Radiation Protection Monitor (onshift) or the Radiological Assessment Communicator (onsite) at least every one half hour via portable radio.

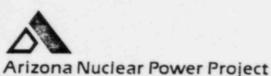
#### Documentation

11. Complete Appendix A and all utilized survey maps and retain for DDC.

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rizona Nuc	lear Power P	roject			PROC NO: REVISION: PAGE OF DATE: 02/3	2 .
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		RECORD OF C	CHANGES AND REVIS	IONS		
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TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

#### 1.0 PURPOSE AND SCOPE

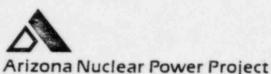
This Procedure specifies personnel by title designated to perform roles in the Emergency Organization and sets forth the authority and responsibility of each Emergency Organization position.

# 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

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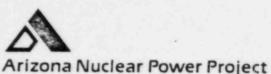
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#### TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

#### 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 <u>ALERT</u> 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.



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#### 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.

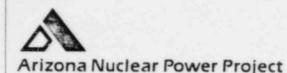
#### 3.1.7 Security Director

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.

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# 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.

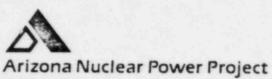
# 3.2 On-site Emergency Organization

The Emergency Coordinator of the <u>on-shift</u> Emergency Organization shall order the activation of the <u>on-site</u> Emergency Organization when an ALERT or higher classification level is declared. The primary functions of the <u>on-site</u> 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 <u>on-site</u> Emergency Coordinator in addition to those assumed from the on-shift Emergency Coordinator (see Section 3.1.1) are:



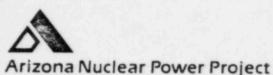
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# TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

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 Protec- tion Support Staff at the OSC in matters pertain- ing to plant radiological controls.
3.2.2.3	Providing technical advice to the Emergency Coor- dinator on radiological aspects of on-site emer- gency activities.
3.2.2.4	Supervising dose rate projection activities at the TSC.
3.2.2.5	Providing technical advice to the Emergency Coor- dinator and/or the Radiological Assessment Coor- dinator 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 radia- tion 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 Admini- strative Radiation Exposure Limits up to the limits of 10 CFR 20.

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#### 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)

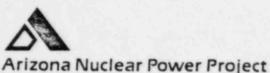
Performs detailed analyses of core physics and heat transfer parameters to assess reactor core status and to evaluate the integrity of fuel cladding.

#### 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.



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#### TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

## 3.2.16 OSC Coordinator

- 3.2.16.1 Furctionally 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

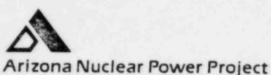
3.2.18.1 Takes and analyzes postaccident samples according to procedures.

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.



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# 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.

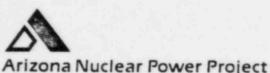
- 3.2.25.2 Acts an interface to maintain the flow of inform inform in between the TSC and Control Room.
- 3.2.25.3 Analyzes conditions and develops guidance for the Emergency Coordinator and Operations personnel.
- 3.2.25.4 Assists in the development of emergency operating and other procedures, as necessary, 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 <u>on-site</u> Satellite TSC Communicator shall maintain the communications link for the Operations Advisor with the Emergency Coordinator in the TSC.



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#### 3.2.32 Fire Team

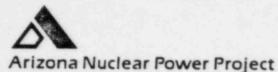
Responds to fire alarms and reports to the location of the fire with assigned equipment to combat the fire and to assess the need for off-site assistance.

#### 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.



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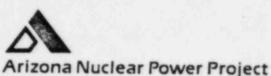
#### TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

- 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.



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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 un-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.



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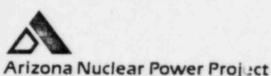
TITLE: EMERGENCY RESPONSE ORGANIZATION AND STAFFING

#### 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.
  - <u>NOTE</u>: In an ALERT or more severe classification, the <u>on-shift</u> response organization is supplemented by the <u>on-site</u> 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.
  - <u>NOTE</u>: The designated Unaffected Unit Shift Supervisor to assume the role of the Emergency Coordinator in the <u>On-shift</u> Emergency Organization is:

Unaffected Units

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



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# 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 appraised of the situation.

# 4.1.7 Operations Support Center (OSC) Coordinator

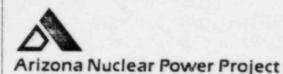
This position shall be filled by the I&C Shift Maintenance Foreman or designated alternate who shall report to the Emergency Coordinator. The OSC Coordinator is stationed at the OSC. In the event of an ALERT or more severe classification, the I&C Shift Maintenance Foreman shall continue to fill the position of OSC Coordinator of the <u>on-site</u> 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 <u>on-site</u> 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-



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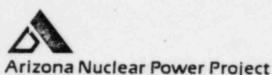
- <u>NOTE</u>: Due to the limited number of Radiation Protection Personnel that may be available during an emergency, they shall be assigned duties in accordance with the following priority:
  - 1. Accompany contaminated injured personnel off-site
  - 2. Search and Rescue Team
  - 3. Perform offsite 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:



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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

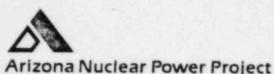
When an ALERT or higher classification level is declared, the <u>on-site</u> Emergency Organization positions shall be manned as soon as possible in accordance with the augmentation time goals set forth in the PVNGS Emergency Plan.

#### 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 <u>on-shift</u> 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 <u>on-site</u> 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.



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#### 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

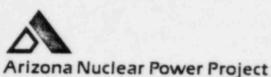
This position shall be filled by the Foreman, Mechanical Maintenance or his alternate (Mechanical Systems Engineer). He shall report to the Emergency Maintenance Coordinator and shall be stationed at the Service Building to facilitate access to tools and plant system schematics.

## 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.



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#### 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

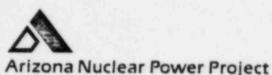
This position shall be filled by the Manager, Radiation Protection and Chemistry or designated alternate. He shall be located in the EOF and report to the Emergency Operations Director.

# 4.3.4 Technical Analysis Coordinacor

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.



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#### 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 Coordiator and shall interface with the JENC Facility Manager.

# 4.3.14 JENC Facility Manager

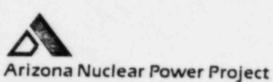
This position shall be filled by the Supervisor, Audio/Visual-Photographic Services or his alternate (Senior Research Analyst). He shall be located at the JENC.

# 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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#### 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.

# ENTE CONTROLLED DOCUMENT

CONTROLLED DOCUMENT LIST I

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#### 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.

Bonne H. Hundy

Donnie H. Grimsley, Director Division of Rules and Records Office of Administration

Attachment: As stated