THOOPPOILE ONCHOOD TOTAGE ITCH	PROCEDURE	CHANGE	NOTICE	(PCN)
--------------------------------	-----------	--------	--------	-------

APPENDIX D Page 1 of 1 70AC-0ZZ02 Rev. 9 Page 29 of 35

Procedure No.	Revision:	PCN No. (obtain from DDC	oni
EPIP -03	1 10	02	
Title:		DDC Contact (ext. 6633)	
Notification of Unusual Eve	nt Implementing Actions	ma	
Orignator: (Print)	Ext.	Unit(s) affected:	
	1	1	
Mary Richardson Reason for this PCN:	6180	1,2,3	
Reason for this PCN:	•		
Correct phone number for AN	PP Communications		-
		Expiration:	
•		Permanent	
Page number(s) affect	ted	Total Number of	
by this PCN:		Pages attached:	
12 19			
- Does PCN require a	50.59 review?	No Yes (refer to 5.1.)	2)
- Does PCN affect act			
the RCA?		No Yes (Copy to ALARA)	)
- Does PCN effect the	non-radiogical		
environment of any		No Yes (Contact Complia	ance
- Is PCN associated w	ith an AC		
Program, Emerg. Pla			
Prog., Phase I-IV T		No x Yes (PRB/PRG/TRRG	
ST?		review required	d)
	~		
1.01			
Chel.	/	6-4-86	
TECHNICAL REVIEWER	(Supervisory Level		
- /	(ouperviser) Level		
nt Auno	11.1	1. lakin	
RR/PRG ATTRE CHATE	11 (if required)	- 4/4/54	
1 And Channe	(in reduited)	Jace	
(m?R		dela	
FINAL APPROVAL	Jun	6/5/86	
I TIMAL APPROVAL	•	· Jace	
	~/	1	
(213)	80	1	
EFFECTIVE DA	TE (DDC only)	Assigned Copy Number (DDC or	nlv
7230164 860710 ADOCK 05000528			
PDR			

· 2. · · · · ·

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. PALO VI	ERDE NUCLEAR GENERATING STATION
	PROCEDURE CHANGE NOTICE
GAED COPY	PAGE / of
\GS	INTENT CHANGE: NO YES
. PROCEDURE TITLE Notification o	S Unusual Event Implementing Actions
PROCEDURE NUMBER EPIP.03	
to exceed 5 PCNs	DATE
3. REASON FOR PCN: To make the	STSC communicator aware that the NRC may request
the ENS be manned contin	vously during an event.
4. EXPIRATION:	
4. EXPIRATION: <u>permanent</u> 5. AFFECTED STEPS: <u>Page 5</u> , Section 3.D	CHANGE REQUIRED: Deleke Reg. 5; Intert Sa
5. AFFECTED STEPS: <u>Page 5</u> , <u>Section 3.0</u> 5. PREPARED BY:	ENTERED IN PROCEDURE BY:
5. AFFECTED STEPS: <u>Page 5</u> , <u>Section 3.0</u> 5. PREPARED BY: <u>Herald a. Aimiele</u>	<u>Delek Rg 5; Intert Sa</u> ENTERED IN PROCEDURE BY: 2/126/86
5. AFFECTED STEPS: <u>Page 5</u> , Soction 3.D 5. PREPARED BY: <u>Herald a. Aimiele</u> SIGNATURE	ENTERED IN PROCEDURE BY:
5. AFFECTED STEPS: <u>Page 5</u> , <u>Section 3.0</u> 5. PREPARED BY: <u>Merald a. Aimiele</u> SIGNATURE 7. TEMPORARY APPROVAL:	ENTERED IN PROCEDURE BY:
5. AFFECTED STEPS: <u>Page 5</u> , Soction 3.D 5. PREPARED BY: <u>Herald a. Aimiele</u> SIGNATURE	<u>Delek Rg 5; Intert Sa</u> <u>ENTERED IN PROCEDURE BY:</u> <u>2/26/86</u> DATE SIGNATURE E
5. AFFECTED STEPS: <u>Page 5</u> , <u>Section 3.0</u> 5. PREPARED BY: <u>Merald a. Aimiele</u> SIGNATURE 7. TEMPORARY APPROVAL: <u>NK</u>	Delek Rg 5; Intert Sa ENTERED IN PROCEDURE BY: 2/26/86 DATE SIGNATURE D DATE SS/Assist. SS I
5. AFFECTED STEPS: <u>Page 5</u> , <u>Section 3.0</u> 5. PREPARED BY: <u>Merald a. Aimiele</u> SIGNATURE 7. TEMPORARY APPROVAL: <u>NIK</u> SIGNATURE	<u>Delek Rg 5; Intert Sa</u> <u>ENTERED IN PROCEDURE BY:</u> <u>2/26/86</u> DATE SIGNATURE E

DEPARTNERT MANAGER'S SICHATURE

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

ASSIGNED COPY. PVNGS 7

DEPT. HEAD Harry & Bieling for Pernis Yours DATE 12/4/25 PRB/PRG/TRRG REVIEW MARKEN DATE 1/2/86 DATE 1/6/86 DATE \_// EFFECTIVE DATE 01.15.86 DN-1598A/0787A

PV216-00DA (8/82)

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

### REVISION HISTORY

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

PVNGS	PVNGS EMERGENCY PLAN		NO.		
IMPLEME	IMPLEMENTING PROCEDURE				
NOTT	FICATION OF UN	REVISION			
	IMPLEMENTING		10	Page 3 of 26	
		REVISION HIS	STORY		
Rev. No.	Date	Revised Pages	C	omments	
9	09-10-85	4, 5, 7, 9,	Incorporate	d PCN# 1 & 2	
		10, 11, 12,	of Rev. 8.	Added specific	
		19, 20, 24,	announcemen	t instructions,	
		25, 26	instruction	s for notifing	
			compliance,	new group paging	
			system # an	d added STSC	
	.47 .	1 1 der	Communicati	on checklist.	
10	01-15-86	4, 7, 9, 10, 11	Incorporate	d PCN# 1 & 2 of	
		12, 13, 14,	Rev. 9. De	leted Time/	
		16, 17, 24,	Initials Co	lumn in	
		25, 26	Appendices	I and J.	
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PV216-00DA (8/82)

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 4 of 26

### TABLE OF CONTENTS

SECT	TION	PAGE NUMBER
1.0	OBJECTIVE	5
2.0	REFERENCES	5
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> </ul>	6 6 6

## APPENDICES

Appendix	A	-	Emergency Notification Call List - Emergency Coordinator/STSC Communicator	11
Appendix	B	-	Emergency Notification Call List - PVNGS Security	12
Appendix	С	-	Initial Emergency Message Form	13
Appendix	D	-	Follow-up Emergency Message Form	14
Appendix	E	-	Emergency Termination Message Form	17
Appendix	F	-	Instructions for Completing Appendix C, D or E	18
Appendix	G	-	Notification Alert Network (NAN) Radio Backup	21
Appendix	H	-	Protective Action Recommendations	23
Appendix	I	-	Emergency Coordinator Response	24
Appendix	J	-	STSC Communicator Response	26

10

PV216-00DA (8/82)

PVNGS EI	MERGENCY PLAN	PROCEDURE NO.	
IMPLEMEN	TING PROCEDURE	EPIP-03	
NOTIFI	CATION OF UNUSUAL	REVISION	
	MPLEMENTING ACTIONS	10	Page 5 of 26
2.0 <u>REFERE</u> 2.1 Impl 2.1.1	procedure provides a ser n upon declaration of a No	OTIFICATION OF UNUSU	DAL EVENT.
	EPIP-22, "Personnel Injury	/	TSC Activation"
	EPIP-23, "Fire Fighting"	/	
2.1.5	9N219.05.00, "Document/Red	cord Ternover Contro	01"
	lopmental References	/	
	SUPEG-0654, Rev. 1, Trit of Radiological Emergency Support of Nuclear Power H	Response Plans and	and Evaluation Preparedness in
2.2.2	PVNGS Emergency Plan, Rev.	. A	
3.0 LIMITA	TIONS AND PRECAUTIONS		
appro	inued surveillance and ass ssary to ensure that the e opriately revised as condi- tmation is obtained.	emergency classifica	tion is
Notishal	fications to State/County fication Call List - Emerg be commenced within 15 m gency.	gency Coordinator/ST	'S& Communicator"
/			
/			
/			

PV216-000A (8/82)

PVNGSE	MERGENCY PLAN	PROCEDURE	
	TING PROCEDURE	EPIP-03	
NOTIF	ICATION OF UNUSUAL IMPLEMENTING ACTIONS	REVISION	5a. Page \$ of 26
1.0 <u>OBJEC</u> 1.1 Thi tab	CTIVE is procedure provides a serie ken upon declaration of a NOT	s of implementing IFICATION OF UNUSU	actions to be AL EVENT.
2.0 <u>REFEN</u>	RENCES		:
2.1 Im;	plementing References		
2.1.1	EPIP-02, "Emergency Classis	fication"	
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/Rec	ord Turnover Contro	ol"
2.2 De	velopmental References		
2.2.1	NUREG-0654, Rev. 1, "Crite of Radiological Emergency Support of Nuclear Power P	Response Plans and	
2.2.2	PVNGS Emergency Plan, Rev.	6	
3.0 <u>LIMI</u>	TATIONS AND PRECAUTIONS		
ne	ontinued surveillance and ass cessary to ensure that the e opropriately revised as condi- nformation is obtained.	mergency classific	ation is
No	otifications to State/County otification Call List - Emergenall be commenced within 15 m mergency.	ency Coordinator/S	TSC Communicator"
3.3 Al.	I notifications should be completed ust be manned continuously at +	prior to contacting the he NRC's request.	e NRC as the ENS
m	ust be manned continuously at +	he NRC's request.	e NRC as H

•

	MERGENCY PLAN	PROCEDURE NO.	
IMPLEME	NTING PROCEDURE	EPIP-03 REVISION	
	FICATION OF UNUSUAL IMPLEMENTING ACTIONS	10	Page 6 of 26
4.0 <u>DETA</u>	ILED PROCEDURE		
4.1 Pe:	rsonnel Indoctrination/Respons	sibilities	
4.1.1	In a NOTIFICATION OF UNUSUAL available to take precaution prevent a more serious event consequences that may occur plant in a readiness position routine activities and/or an No releases of radioactive of response are expected. Appr state/county authorities is	hary and construct and/or to mitiga This event stat on for possible ce agmentation of ons material requiring copriate notificat	tive steps to te any us places the essation of whift resources. g offsite
4.1.2	The Shift Supervisor shall a procedure. The Emergency Co for completing the implement	pordinator shall b	e responsible
4.2 Pr	erequisites		
4.2.1	The emergency has been class Classification."	sified per EPIP-02	2, "Emergency
4.3 In:	structions		
4.3.1	The affected unit Shift Supe following:	ervisor shall perf	form the
	NOTI	2	
	Designated Unaffected Unterfected Understand to assume the role of the Coordinator in the Onsi Organization are:	the Emergency	sor
	Affected Unit Unaffe Unit 1 Unit 2 Unit 3 Entire Site	ected Unit Shift S Unit 2 Unit 1 Unit 2 Unit 2 Unit 1	Supervisor

PVNGS EMERGENCY PLAN		PROCEDURE NO. EPIP-03	
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS		REVISION	
		10	Fage 7 of 26
4.3.1.1	Notify the Shift Super unit (or Shift Supervi- report to the Control assume the duties of t For NOTIFICATION OF UN <u>discretion</u> of the affer is to be relieved as H supervisor of an unaff	isor of an unaffecte Room of the affecte the onshift Emergene NUSUAL EVENT, it will ected unit Shift Sup Emergency Coordinate	ed unit) to ed unit and by Coordinator. Il be at the pervisor if he
4.3.1.2	Notify the Control Roo	oms of the unaffecte	ed units.
4.3.1.3	Ensure the following is telephone page (phone	is announced over th	ne plant wide
	"ATTENTION ALL PLANT F UNUSUAL EVENT HAS BEEN SUPPORT CENTER AND OPE PERSONNEL FOR UNIT STATION. OTHER PERSON ORGANIZATION - STANDBY WITH NORMAL ROUTINE UN	N DECLARED. SATELLI ERATIONS SUPPORT CEN , REPORT TO YOUR NNEL ASSIGNED TO THE Y. ALL OTHER PERSON	TE TECHNICAL TER EMERGENCY EMERGENCY EMERGENCY NEL CONTINUE
	(Give a brief descript and repeat the annound	tion of the event, i tement).	f appropriate,
4.3.1.4	Ensure the announcemen the Site Warning Siren	nt in step 4.3.1.3 i n/Public Address Sys	s repeated over tem.

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	
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.

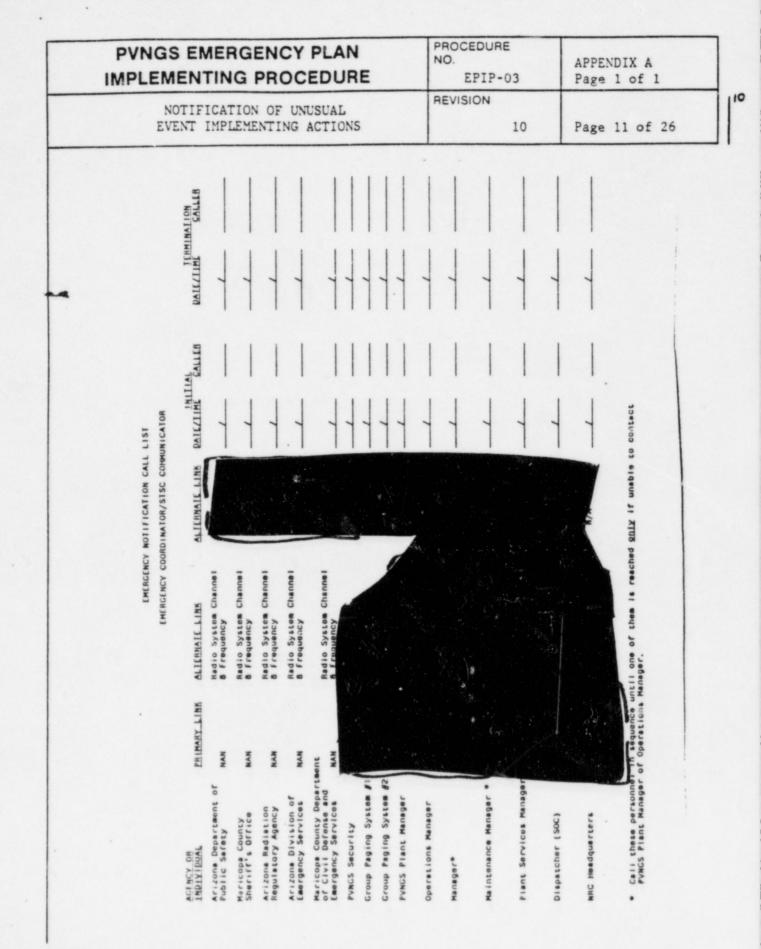
### NOTE

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		PROCEDURE NO. EPIP-03	
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS		REVISION 10	Page 9 of 26
4.3.2.3	Determine the need for needed, additional per existing on-shift orga	rsonnel should be re	rsonnel. If equested by the
4.3.2.4	If it is determined the support the emergency deactivate and allow to normal work stations.	response, notify th	ne OSC to
4.3.2.5	Direct the STSC Commun "Follow-up Emergency M instructions provided	Message Form" in ac	Appendix D, cordance with
4.3.2.6	Reevaluate the emerger licensee actions as co EPIP-02.	ncy classification a onditions change by	and perform implementing
4.3.2.7	When the situation was NOTIFICATION OF UNUSUA implementing and notif Shift Supervisor to an the public address sys Rooms. Keep PVNGS Pla event.	AL EVENT, proceed to fication procedures nnounce the reclass stem and inform the	and direct the ification over other Control
4.3.2.8	Provide over all direc emergency response as Coordinator Response.		
Coo UNI te: Not	NGS Security, after bein ordinator or STSC Commun USUAL EVENT is in progre cminated, shall complete tification Call List - H dividuals or departments	nicator that a NOTI ess or has occurred e Appendix B, "Emery PVNGS Security," and	FICATION OF , or has been zency
4.3.4 Em	ergency Situation Termin	nated	
4.3.4.1	Consult with the PVNGS	S Plant Manager pric	or to closing ou

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS		PROCEDURE NO. EPIP-03	Page 10 of 26
		REVISION 10	
4.3.4.2	ensure the following wide telephone page () "ATTENTION ALL PE	announcement is made	e over the plant
4.3.4.3	(Provide special	instructions as nece	essary).
	the site warning sire		
4.3.4.4	Ensure the announcement repeated once.	nt in steps 4.3.4.2	and 4.3.4.3 is
4.3.4.5	Direct the STSC Commun "Emergency Termination provided in Appendix 1	n Message Form," per	
4.3.4.6	Direct the STSC commun per Appendix A.	nicator to transmit	the termination
4.3.4.7	The S.S./E.C. shall no ext. (or beeper M during off hours) and provided to offsite and S.S./E.C. shall provide room logs, etc. as rec preparation of the rep	No. request a written s uthorities within 24 de copies of shift 1 quested by Compliand	summary be hours.
4.3.5 R	ecord Retention		
4.3.5.1	the Emergency Planning ensure they are forward	g Dept., mail static	on 6010, to per storage in



5 [	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX B Page 1 of 1	],10
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 12 of 26	
(	TATE ALTERIA DIFICIENT ALTER DIFILIE			
C	ACT NCY OR MCT NCY OR	ANPP Site Construction Orrice. Bechtei Emurgency Control Center RUTNATE AUTODIALER Aveileble during vorking houre unly.		

PVN	IGS EMERGENCY PLAN	PROCEDURE	ADDENDIN C
IMPL	EMENTING PROCEDURE	EPIP-03	APPENDIX C Page 1 of 1
		REVISION	
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	10	Page 13 of 26
	INITIAL EMERGENCY NOTIFICATION OF U ALERT, SITE AREA EMERGENCY	NUSUAL EVENT,	ENCY
I	Verbatim text of Message: THIS IS S PALO VERDE NUCLEAR GENERATING ST ALERT) (SITE AREA EMERGENCY) (GENE (circle applicab	ATION (NOTIFICATIO	N OF UNUSUAL EVENT)
declared	at $\frac{1}{(time)} = \frac{1}{(date)}$ - Wind is from	m degrees -	Atmph. (speed)
PALO	VERDE AUTHENTICATOR(authentic	ator letters)	
2. This Stat	is, at th (name/title) tion Unit	e Palo Verde Nucle	ar Generating
3. (Cir	cle One)		
(a)	There is <u>NO</u> , repeat <u>NO</u> , radioacti protective actions are recommende OR		place and no special
(b)	There is <u>NO</u> , repeat <u>NO</u> , radioacti operating limits and <u>NO</u> protectiv OR	ve release in exce e actions are reco	ess of allowable mmended at this time
(c)	There is <u>NO</u> , repeat <u>NO</u> , radioacti However, the following protective Sectors	ve release taking actions are recom Distance (S	mended.
	OR		
(d)	A radioactive release <u>IS</u> , repeat people in affected sectors remain Sectors		lows and doors closed
	OR		
(e)	A radioactive release <u>IS</u> , repeat evacuation of affected sectors be Sectors		
	S IS (IS NOT) A DRILL!! (Circle One	2)	
4. IHIS			

	VNGS EMERGENCY PLAN	PROCEDURE	APPENDIX D
IMF	PLEMENTING PROCEDURE	EPIP-03	Page 1 of 3
		REVISION	
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	10	Page 14 of 26
	FOLLOW-UP EMERGENCY	MESSAGE FORM	
1.	Verbatim text of Message: THIS IS THIS IS A PALO VERDE NUCLEAR GENERA message concerning the (NOTIFICATIO AREA EMERGENCY) (GENERAL EMERGENCY (circle application)	ATING STATION follo	ow-up information T) (ALERT) (SITE
	declared at		
	(time) (date)		
2.	This is, at Po Unit (name/title)	alo Verde Nuclear	Generating Statio
3.	Brief description of event		
4.	Meteorological Data		
4.	Meteorological Data a. Wind direction from (direction)		miles per hour eed)
4.	a. Wind direction from	(sp	
4.	<ul> <li>a. Wind direction from (direction)</li> <li>from to</li> </ul>	(sp r) G	
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)	
	<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)	
5.	<ul> <li>a. Wind direction from (direction)</li> <li>from to (sector)</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)	

IBAC		PROCEDURE NO. EPIP-03	APPENDIX D Page 2 of 3
INT		REVISION 10	Page 15 of 26
5.	<ul> <li>b. Release Time</li> <li>c. Reactor Trip Time</li> </ul>		
	d. Location/Source of Release		
6.	Current Release Rates		
	a. I-131 Equivalent Ci/s b. Noble Gas Ci/s c. Particulates Ci/s	second second second	
7.	Two-hour plume centerline projected do	ose at:	
	Distance Sector Whole Body Cl Dose (REM) Do	hild Thyroid ose Commitment (REM)	
	Boundary		
	2 miles		
	2 miles 5 miles		
8.	5 miles		

	NGS EMERGENCY PLAN	PROCEDURE NO. EPIP-03	APPENDIX D Page 3 of 3
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 16 of 26
10.	The Following Emergency Measures Inc Recommended:	luding Protectiv	e Actions are
11.	The Following Emergency Response Act	ions are Underwa	y:
12.	We Request the Following Onsite Supp Sources:	port and Assistan	ce from Offsite
13.	Our Prognosis of the Emergency is th Are Under Control Can Be Expected to Terminate Wi Are Worsening		
	Are Under Control Can Be Expected to Terminate Wi	thinhours	

0

	NGS EMERGENCY PLAN	PROCEDURE NO.	APPENDIX E
IMF	LEMENTING PROCEDURE	EPIP-03	Page 1 of 1
	NOTIFICATION OF UNUSUAL	REVISION	
	EVENT IMPLEMENTING ACTIONS	10	Page 17 of 2
1.	EMERGENCY TERMINATION Verbatim text of message: THIS IS THIS IS PALO VERDE NUCLEAR GENERAT UNUSUAL EVENT) (ALERT) (SITE AREA (circle approprite classification) AT	S (IS NOT) A DRILL! TING STATION. THE ( EMERGENCY) (GENERAL	NOTIFICATION O EMERGENCY)
	(Time) (Date)		
	(Time) (Date)		
2.	This is		, at Palo
	(Name) Verde Nuclear Generating Station	(Title) Unit	
2	PALO VERDE AUTHENTICATOR		
5.		(Authenticator Lette	ers)
wbł	(SS/EC/EOD)	Date/T	ime
			~
			*
			e
			e
			*
			*
			*
			*
			•

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

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

	S EMERGENCY PLAN	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)	AN backup radio dur he nuclear operator	(or STSC
1.6	When contact is made, the cal request that the individuals Emergency Message Form.	ler shall identify obtain a copy of th	himself and e appropriate
1.7	When each individual has obta Emergency Message Form verbat verbatim.	lined a copy, read t im and request MCSO	he completed to read back
1.8			essary.
	NOT		
•	To verify the group page pager installed in the S much as two (2) minutes dial-up and the broadcas	STSC. Be aware that may lapse between st announcement.	t as
1.9	Notify additional personnel a and inform them of the situat for both Group Paging Systems	tion. Provide the	following message
	"THIS IS PVNGS, UNIT PLEASE RESPOND APPROPRI. once).	_, CLASSIFICATION O ATELY" (Repeat mess	NE, age
1.10	) If an individual requests in Emergency Message Form, make give the information only af been made.	reasonable efforts	to obtain and
1.1	Contact the NRC via the Emer dedicated telephone within 6 If the ENS phone fails, use alternate line.	60 minutes of declar	ring an emergency
1.1	2 When contact is made, the ca the completed Emergency Mess Verde Authenticator).	aller shall identify sage Form verbatim	y himself and rea (omit the Palo

NOTIFICATION OF UNUSUAL REVISION		GS EMERGENCY PLAN MENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX F Page 3 of 3		
<ul> <li>2.1 Fill in data required by steps 1-3 of Appendix D, "Follow-up Emergency Message Form." <ul> <li>NOTE</li> <li>If the emergency is non-radiological in nature, steps 4-9 may be deleted.</li> </ul> </li> <li>2.2 Obtain from the Radiation Protection Monitor data required to complete steps 4-9.</li> <li>2.3 Obtain from the Emergency Coordinator data required to complete steps 10-14.</li> <li>2.4 Circle appropriate wording in step 15.</li> <li>2.5 Dispense information when requested by offsite agencies (NRC ARRA).</li> <li>3.0 EMERGENCY TERMINATION MESSAGE FORM (APPENDIX E)</li> <li>3.1 Fill in data required by steps 1-3 to Appendix E, "Emergency Termination Message Form."</li> <li>3.2 Obtain approval from SS/EC/EDD.</li> <li>3.3 Transmit termination per Appendix A. <ul> <li>NOTE</li> <li>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.</li> </ul> </li> <li>3.4 When using the Group Paging Systems to announce event termination, use the following message: <ul> <li>"THIS IS PVNGS, UNIT, EMERGENCY</li> </ul> </li> </ul>	NOTIFICATION OF UNUSUAL REVISION					
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"THIS IS PVNGS, UNIT, EMERGENCY TERMINATED. PLEASE CANCEL RESPONSE TO EMERGENCY."	3.4			event		
		"THIS IS PVNGS, UNIT TERMINATED. PLEASE CANCEL	EMERGENCY RESPONSE TO EMERG	GENCY."		

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX G Page 1 of 2
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION	Page 21 of 26

### 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."
- 2. Wait 30 seconds to allow the offsite agencies to get to their radios, then repeat the previous transmission.

#### NOTE

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

- 3. Initiate roll call of the offsite government agencies, allowing stations on the net to respond.
  - 3.1 "5-1-1 Palo Verde to 5-1-1 Maricopa County Sheriff's Office. Do you copy?" Allow response: "5-1-1 MCSO copies."
  - 3.2 "5-1-1 Palo Verde to 5-1-1 Maricopa County Department of Civil Defense & Emergency Services. Do you copy?" (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."

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX G Page 2 of 2
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 22 of 26

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.
- 6. Continue notifications per Step 1.8 of Appendix F.

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPEN. Page 1 c
	REVISION	
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	10	Page 23 of 26

PROTECTIVE ACTION RECOMMENDATIONS

### Classification Category

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. Protective Actions Recommendations

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.

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	

### 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 ONSHIFT Emergency response.

#### INITIAL RESPONSE

- 1. Ensure plant wide public address announcement is made as per steps 4.3.1.3 and 4.3.1.4 of this procedure.
- 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.
- 6. Provide plant wide public address announcement when the the STSC is activated.
- 7. Implement EPIPs according to the situation that resulted in the classification.

#### SUESEQUENT RESPONSE

- 8. 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)

PV216-00DA (8/82)

10

	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX I Page 2 of 2
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 25 of 26
	EMERGENCY COORDINAT	OR RESPONSE	
	(2) For personnel injury, contact the of the situation. Dispatch a Firs coordinate any required offsite as	t Aid Team, if nece	and inform them essary, and
9.	Determine the need for additional pers Director to initiate call out.	connel and directthe	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 support and allow the resp	ort the emergency onse personnel
11.	As appropriate, complete Follow-up Eme	rgency Message Form	ı.
12.	Reevaluate the emergency classification reclassify as necessary. Keep PVNGS P of event.	on as conditions cha Plant Manager inform	nge per EPIP-02, ed as to status
13.	Reassess corrective and protective act	ions. Verify activ	ities underway.
	Recovery		
14.	Consult with the PVNGS Plant Manager p	rior to closing out	emergency.
15.	Complete notifications per Appendix F direct the STSC Communicator to do the	when emergency is c same.	losed out or
16.	Provide termination announcement or di same per steps 4.3.4.2 and 4.3.4.3 of	rect Shift Supervis this procedure.	or to provide
17.	Notify PVNGS Compliance at ext. event termination. Provide logs as re	quested.	
* Co	ntinuing Activity		

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	

#### STSC COMMUNICATOR RESPONSE

POSITION FILLED BY: Nuclear Operator from affected unit

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

#### IMMEDIATE ACTIONS

### STSC Activation

1. Report to the STSC upon notification.

### Notification of UNUSUAL EVENT

- 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.
- 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.
- 3. 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

	EMERGENCY PLAN NTING PROCEDURE	PROCEDURE NO. EPIP-15	
PROTEC	TIVE ACTION GUIDELINES	REVISION 4	Page 1 of 13

AUTHOR T. S. Barsuk	
REVISED BY G. A. Simiele	EXT. 6661
TECH. REVIEWER TS. Frunch	DATE 5-16-86
PRB/PRG/TRRG REVIEW DA BUILMAUL	DATE 6/9/86
FINAL APPROVAL ARBAN	DATE 6/5/86
EFFECTIVE DATE (DC on Fy) ASSI	
DN-1669A/0196A	IGNED COPY NUMBER (DDC only)
MDA (8/82)	

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE			PROCEDURE NO. EPIP-15	
		REVISION		
PROTEC	TIVE ACTION	JIDELINES	4 Page 2 of 13	
		REVISION HIS	TORY	
Rev. No.	Date	Revised Pages	С	omments
3		4, 5, 6, 7,	Corrected r	eferences,
		10, 11, 12,	revised pro	cedure to match
		13	writers gui	de, corrected
			referrals t	o personnel
			responsibil	ities; corrected
			PAG's in Ap	p. A.
4			Incorporate	d previous PCNs

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-15	
PROTECTIVE ACTION GUIDELINES	REVISION 4	Page 3 of 13

# TABLE OF CONTENTS

SECT	TION	PAGE NUMBER
1.0	OBJECTIVE	4
2.0	REFERENCES	4
3.0	LIMITATIONS AND PRECAUTIONS	4
4.0	DETAILED PROCEDURE	6
	<ul> <li>4.1 Personnel Indoctrination/Responsibilitie</li> <li>4.2 Prerequisites</li> <li>4.3 Instructions</li> </ul>	s 6 6 7

## APPENDICES

Appendix.	A -	Guidelines for Recommended Protective Actions For Gaseous Plume Exposure	10
Appendix 1	B -	Reduction in External Gamma Dose From Passing Cloud	12
Appendix (	c -	Inhalation Shielding Factors for a Wood House Snug Doors, Closed Windows	13

	EMERGENCY PLAN NTING PROCEDURE	PROCEDURE NO. EPIP-15	
PROTEC	TIVE ACTION GUIDELINES	REVISION 4	Page 4 of 1
			1000 4 01 1.
1.0 <u>OBJE</u>	CTIVE		
ex	provide a basis for relatin posure doses to the Environm otective Action Guides (PAGs	mental Protection Ag	ed plume ency (EPA)
2.0 <u>REFE</u>	RENCES		
2.1 Im	plementing References		
2.1.1	EPIP-14B, "Initial Dose As	ssessment"	
2.1.2	EPIP-17, "Onsite/Offsite S	Surveys and Sampling	"
2.1.3	EPIP-03, "NOTIFICATION OF Actions"	UNUSUAL EVENT Imple	menting
2.1.4	EPIP-04, "ALERT, SITE AREA Implementing Actions"	and GENERAL EMERGE	NCY .
2.2 Dev	velopmental References		·
2.2.1	NUREG 0654, Rev. 1, "Crite Evaluation of Radiological Preparedness in Support of 1980.	Emergency Response	Plane and
2.2.2	Manual of Protective Actio for Nuclear Incidents; as EPA-520/1-75-001.	on Guides and Protec revised June, 1980;	tive Actions
2.2.3	PVNGS Emergency Plan, Rev.	6.	
3.0 LIMIT	TATIONS AND PRECAUTIONS		
3.1 The	protective actions determi	ned by this procedu	re are to be
pre	esented to appropriate state COMMENDATIONS. Only these a Dement the protective actio	/county agencies as gencies are authori:	

	AS EMERGENCY PLAN MENTING PROCEDURE	PROCEDURE NO. EPIP-15	
		REVISION	
PRO	TECTIVE ACTION GUIDELINES	4	Page 5 of 13
3.2	Protective action recommendation containment conditions and these when no release is in progress. transmitted to government offici "NOTIFICATION OF UNUSUAL EVENT I "ALERT, SITE AREA and GENERAL EM	recommendations These recommendations tals using EPIP-03 Emplementing Action	are made even tions are , and ms" EPIP-04.
3.3	Protective action guides represe intended to represent acceptable	ent trigger levels dose levels.	and are not
3.4	PAGs for the general public are dose values should be used if th constraints in providing protect constraints may, however, make t use, but in no case should the h determining a need for protective	tere are no major tion at this level the lower values in tigher value be ex	local . Local mpractical to
3.5	The projected dose and affected curies released, release rate, d isotopic mixture of the release and meteorological conditions.	luration of the re	lease.
3.6	At times, selection of protectiv subjectively as conditions beyon may exist.	e actions should d the scope of th	be considered is procedure
3.7	When the wind is blowing into th P or Q) and protective actions a sectors on either side of the af included in the recommendation ( shall require consideration of s recommendation.)	re being consider fected sector sha e.g., a plume in	ed, the two 11 be sector P
3.8	Protective actions recommended t SHALL NOT be transmitted to the	o state authoriti JENC.	es by ANPP
3.9	Government officials should info implementing protective actions.	rm EC/EOD prior t	0
3.10	If actual airborne radioactivity results are available (either fr field measurements) this informa dose projections for making prot	om RMS filter ana tion may be used	lysis or instead of

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-15	
PROTECTIVE ACTION GUIDELINES	REVISION 4	Page 6 of 13

4.0 DETAILED PROCEDURE

## 4.1 Personnel Indoctrination/Responsibilities

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

#### 4.2 Prerequisites

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

PVNGS	EMERGE	INCY PLAN	PROCEDURE NO.	
MPLEME	NTING F	ROCEDURE	EPIP-15	
			REVISION	
PROTEC	TIVE ACTI	ON GUIDELINES	4	Page 7 of 13
4.3 In	struction	s		
4.3.1	Radiolo, Monitor	gical Assessment Co , onshift) shall:	oordinator (Radiatio	on Protection
4.3.		luate current plant ential for releases	status with respect or increased relea	ct to ases.
4.3.	sit	ate and refine dose e locations upon si the following param	e estimates for crit gnificant changes : meters:	tical receptor in one or more
	(2) (3)	Release rates Duration of the re Isotopic mixture of function of effect Meteorological con	f the release (var: ive age).	ies as a
4.3.2	shelter: determin describe	ing or evacuation b ne the effectivenes	projected doses in e considered per Ap s of these protects imates should be ob ions Center.	ppendix A, ive actions as
4.3.3	in limit exposure the time	ting radiation dose a if a plume is pre	The effectiveness is a function of t sent. This is depe ate. The evacuation	the time of endent upon
	T(EV) =	$T_{D} + T_{N} + T_{M} + T_{T}$		
	Where:			
	T <sub>p</sub> =	Time delay measu	red from the point	of the
	U	protective action to government to	n recommendation fr evacuate to the ac thority to order th	om the facility tual decision b
	T <sub>N</sub> =	Time required by	officials to notif	y people
		to evacuate.		
	T <sub>M</sub> =	Time required for get under way.	r people to mobiliz	e and
		Ber mider way.		

 $T_{T}$  = Travel time required to leave the affected areas.

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1	RGENCY PLAN	PROCEDURE NO. EPIP-15				
PROTECTIVE.	ACTION GUIDELINES	REVISION 4	Page 8 of 13			
4.3.3.1	If evacuation is complet then evacuation is 100 p determine the time of en necessary to calculate to The plume arrival time,	percent effective. xposure to the plu the plume arrival	To me, it is time T(PA).			
	$T(PA) = T_B + T_{TR}$ Where:					
	T <sub>B</sub> = Time projecto	ed before release	begins.			
	windspeed and	ed for plume trave d downwind distanc ease. To calculat EPIP-14B.	es from the			
4.3.3.2	Evaluate constraints age estimated evacuation tim plume arrival time, T(PA	me T(EV) with the	Compare the estimated			
4.3.3.3	of sheltering vs. the be	enefits of evacuat	ion.			
	<ol> <li>In cases where there to the arrival of the</li> </ol>	e is no time to ev he plume.	acuate prior			
	(2) The projected evacuation plume arrival are not	ation time and time early equal.	e before			
4.3.3.4	If evacuation appears to in dose (greater than sh to the appropriate count	neltering) recomme	nd evacuation			
4.3.4 She	4.3.4 Sheltering Effectiveness					
4.3.4.1	If evacuation does not of avoidance or if local construction recommend that officials to:	onstraints prevent	evacuation			
	(1) Seek shelter.					
	(2) Close windows.					
	(3) Turn off ventilation	n systems.				

(4) Seal cracks in doors with wet rags.

PV216-00DA (8/82)

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PROTECTIVE ACTION GUIDELINES	EPIP-15 REVISION	
FROIDCIIVE ACTION GUIDELINES	4 Page 9	of 11
	rage 9	or 1.
4.3.4.2 Control access to	the affected area.	
4.3.5 Evaluate the possibil: passed.	ity of evacuation after the plume	a has
of ground deposit:	as passed, evaluate the signification in accordance with EPIP-17, urveys and Sampling".	ance
4.3.5.2 Determine if dose subsequent evacuat	rates are sufficient to warrant tion.	
4.3.5.3 Multiply the proje factor (Appendix H	ected dose by the external shield	ling
4.3.5.4 Compare the project gamma dose (Append	cted dose to the PAG for whole bo dix A).	ody
factors for inhalation	ance of inhalation dose. (Shield h doses are presented in Appendix s are for a sealed, wood-frame ho	
shielding factor t inhalation dose fr	ected dose by the inhalation to determine the reduction in com the plume. Compare the proje or thyroid dose in Appendix A.	ected
the thyroid. Compare	organ of concern, the whole bod the projected dose for the criti that organ in Appendix A.	y or .cal

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IMPLEME PVNG PROTECTIVE ACTION RECOMMENDATIONS PROTECTIVE RECOMMENDED ACTION CONDITION ŝ Notification of Unusual Event Declared. Inform state and county authorities of 1. status/cause and, based on situation recommend m NTING that no protective action is necessary or ME standby for update if situation worsens. ACTION RG An ALERT has been declared. Inform state and county authorities of Alert 2. PRO m status/cause and recommend that the public be NC GUIDELINES apprised of the situation and stay tuned to EBS/KIAR radio station. Õ -EDURE PL A Site Area Emergency has been declared. Inform state and county authorities of Site . 3. AN Area Emergency status/cause and consider recommending seeking shelter within a 2-mile radius of the plant as warranted based on plant/containment conditions. A General Emergency has been declared. Shelter within 2-mile radius and 5 miles in 4. potentially affected sectors.\* NO. REVISION EPIP-15 5. EPA Protective Action Guidelines are In accordance with EPA Protective Action projected to be exceeded. Guidelines: Recommended shelter, as a minimum for a) whole body 1 rem to 5 rems 4 5 rems to 25 rems affected sectors\* and consider evacuation thyroid unless time constraints make it impractical. b) whole body 5 rems Recommend evacuation for affected sectors\* thyroid 25 rems or shelter for those areas that cannot be evacuated before plume arrival. APPENDIX Page 1 of J age Affected sectors include, as a minimum, the downwind sector(s) and adjacent sectors. For **\*NOTE:** 10 plumes in sector P, Q, or N, two sectors on either side of the affected sector shall be of included in the recommendation (e.g., a plume in sector P shall require consideration of of sector M, N, Q and R). N w

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		ON RECOMMENDATIONS	PROTECTIVE ACTION GUIDELINES		IMPLEMENTING PR
	CONDITION	RECOMMENDED ACTION	GUII		RO
6.	Loss of physical control of the plant to intruders.	Evaluation for 2-mile radius and 5 miles in potentially affected sectors.*	DELIN		CY PLAN
7.	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 potenially affected sectors.*	ES		URE
3.	Large fission product inventory (greater than fuel gap clad activity)	Evacuation for 5-mile radius and 10 miles in potentially affected sector(s).	-	REVISION	NO.
	Imminent containment failure is pro- jected such that a "puff" release greater than design leak rate will occur, in conjunction with 7. or 8. above.	Shelter for areas that cannot be evacuated before plume arrival; evacuation of remainder of 5-mile radius and 10-miles in potentially affected sectors.*	4	NON	NO. EPIP-15
NOTE:	plumes in sector P. Q. or N, two sector	, the downwind sector(s) and adjacent sectors. For rs on either side of the affected sector shall be a plume in sector P shall require consideration of	Page 1	-	APPEND Page 2
			11 of		of
			f 13		NA

PV216 00DA (8/82)

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-15	APPENDIX B Page 1 of 1
PROTECTIVE ACTION GUIDELINES	REVISION	
INCIDENTIVE ACTION GOIDELINES	4	Page 12 of 13

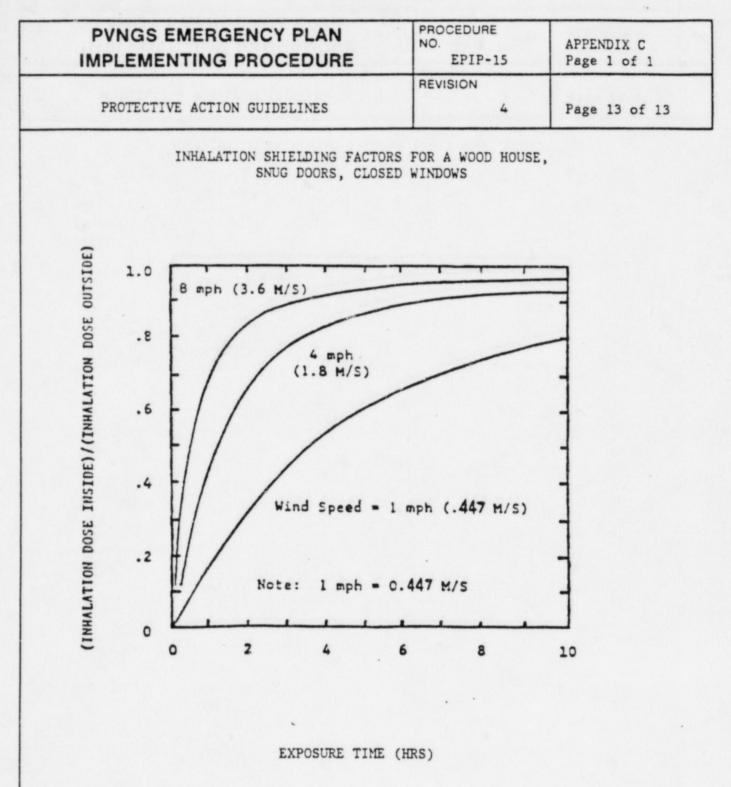
REDUCTION IN EXTERNAL GAMMA DOSE FROM PASSING CLOUD

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

### NUTES:

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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).





#### UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

July 23, 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.

Bance H Elundy

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

Attachment: As stated