EMLAGENCY	PLAN I	MPLEMENTING
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0	1-15-1	5

FROCEDLAL NUMBER	 PFDCECUF2 TTTL.	PRCCEDURE REVISION	FROCEDURE EFFECTIVE DATE	CHANGE NOTICE NUMBER	CHANCE AUTICE DATE	NUCLEAR SAFETY REVIEW PEQUIREC	DATE DATE	
1010-01	NON CAVERED OF ANPP PRECEDURE NUMBER 7N-CP.02.00		450118					z
EPIP-UZ	LMERGENCY CLASSIFICATION	34	850£27	C1			645 127	
CPIP-01	NOTIFICATION OF UNDERAL EVENT	10	60115		120	÷	£5C 327 87C 115	ž
: P1P-04	ALERT IMPLEMENTING ACTIONS	05	360115			Y	870115	7
CPI US	SITE THEA EACHENCY THELEMENTING ACTICUS	05	260115			Ý	870115	ž
LP1P-06	SENERAL EMERGENCY IMPLEMENTIN, ACTIC IS	36	160115			Y	876115	z
EPIP-11	TECHNICAL SUPPORT CONTER/SPIELLITE	05	360115			۲	87C115	z
EPIP-12	OPERATIONS SUPPORT CENTER ACTIVATION	05	360115			Y	£7C115	z
EPIP-13	ENERGENCY CPERATIONS FACILITY ACTIVATION	05	300115			Y	870115	z
EPIP-14A	RELEASE RATE DETERMINATION	06	350410	C1,02		×	866410	7
EPIP-140	INITIAL DOSE ASSESSMENT	03	850409			÷	860409	2
EP1P-14C	CONFLICING DOSE ASSESSMENT	01	350409			÷	860409	-
SPIP-15	FRETECTIVE ACTION GUIDELINES	03	350627	01			656627	-
EPIP-1c	INFLANT SURVEYS AND SAMPLING	33	35 35 10	-	1			-
EPIP-17	ONSITE/OFFEITE SURVEYS AND SAMPLING	55	340801	3	6	÷	860510 850401	ž
EP1P-16	EMERGENCY EXPOSURE SUIDELINES	03	350510		TO.	*	8 0 0 5 1 0	
EPIP-15	UNSITE EVACUATION	04	360115	1			£7C115	-
EPIP-20	PERSCINEL ASSEMILY AND ACCOLITABILITY	04	360115	NGS	SSIGN	Ť	870115	z
EPIP-21	 SCARCH AND RESCUE	04	360115	0		*	870115	
EP1P-22	PERSCANEL 14JJRY	03	350308				80(303	-
EPIP-23	FIRE FIGHTING	03	150517		1	:		2
EPIP-24	SECURITY	03	250912	C1		1	860517	4
EPIP-25	REENTRY FOR ENERGENCY COFRATIONS	04	360115			1	860 212	2
LP12-20	POTASSIUM IODINE (KI) ADPINISTRATION	03	350617		-	÷	87C115 86C517	ž
EPIP-27	POST ACCIDENT SAMPLING AND ANALY IS	04	350810	#	. 0	۲	80(51)	z
P1P-28	PERSCANEL PONITORING AND DECONTAMINATION	02 ·	040716	0	02	Y	650716	z
PIP-25	AREAT SUIPPENT MONITCRING AND DECONTAMINATION	02	349716	11	3	Y	850716	z
P12-3C	HANICLCGICAL EMERSE ITY. RESPONSE VEHICLE CPERATIONS	00	54071c	L	0~	¥.	850715	z
P1P-31	RECOV-RY	04	160115		~			
PIP-33	OFFSITE ASSISTANCE	03	350912	C1 1	-		£7C115	Z

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EPERSENCY PLAN IMPLEMENTING PROCEDURES INDEX C1-15-85

PROCEDLPE NUMEER	PROCEDURE TITLE	PRCCEDURE	FRCCEDLRE EFFECTIVE GATE	CHANGE NOTICE NUMBER	CHANGE NOTICE DATE	NUCLEAP SAFETY REVIEW REQUIRED	PERIDDIC REVIEW DATE	
LPIP- 35	KIN CUVERED BY ANPE PRCCEDLAI		250325					z
6212-36	NUMBER 7N4LP.DI.GO AND 7N4CP.07.03 Suffreeded by Anpp Procedure Rumber 3N713.04.60 ("Emergency		350724					z
EPIP-37A	PLAN TRAINING") NDE COVERED LY ANPE PROCEDURE NDESER 7NAC2.02.00		850322					z
EPIP-373	NON COVERED BY ANPP PRCCEDLAE NUMBER 7N4C7.JS.DJ		850322					ε
PIP-32	ENERCINCY ELLIPAENT AND SUPPLIES	07	050530	61		¥	860 930	ι
PIP-SE	LIVENTORY ULTIPATE HEAT SINK EMERGENCY WATER	02	351105			¥	861105	z
EP10-57	SJEPCLY CJEPCPATE ENERGENCY RESPONSE	31	850512			*	866912	z

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ONSITE/OFFSITE SURVEYS AND SAMPLING	REVISION 2	Page 1 of 23	12

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PERSONNEL MONITORING AND DECONTAMINATION	REVISION 2	Page 1 of 17

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	PVNGS # 0-9D
DEPT. HEAD D-1	DATE 3/72/84
PRB/PRG REVIEW	
APPROVED BY	hungul AVS DATE 7/16/84 1/2/86
EFFECTIVE DATE	-07 20 184 JM 07-16-84
DN-1635A/0190A	07-16-84
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•	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-29	
	AREA/EQUIPMENT MONITORING AND DECONTAMINATION	REVISION 2	Page 1 of 14

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RADIOLOGICAL EMERGENCY RESPONSE VEHICLE OPERATIONS	REVISION 0	Page 1 of 7

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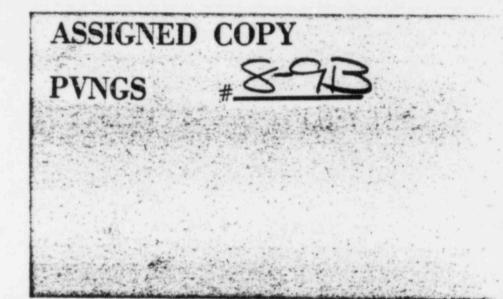
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PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

	INTENT CHANGE: NO YES
. PROCEDURE TITLE _ Emergency Classification	
PROCEDURE NUMBER EPIP.02	REV. 4 PCN /
to exceed 5 PCNs	REVPCN/_ DATE
REASON FOR PCN: Clarify Classification (int	krig
EXPIRATION: Next Revision	
AFFECTED STEPS:	
Appendix B - Alert (same 15)	CHANGE REQUIRED:
PREPARED BY:	ENTERED IN PROCEDURE BY:
Aualda Amiele philss-	
SIGNATURE DATE	SIGNATURE DA
TEMPORARY APPROVAL:	
SIGNATURE DATE	SS/Assist. SS DA
DEPT. MANAGER: MANAGER: 12/9/85	9. PRB/PRC/TRRC:
APPROVED BY: DEPARTMENT MANAGEB'S SIGNATURE	SIGNAPORE 16/86

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-02	
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REVISION HISTORY

P			
Rev. No.	Date	Revised Pages	Comments
3	un 12. 55	4, 7, 9, 15,	To incorporate PCN #01 of
		17, 19	Rev. 2 and to correct
			references and minor
			editorial changes
4	06-11.85	10,17,25	TO INCORPORATE PON #01
			OF REW. 3; REVISE NOTE
			SO WORDING SAME AS IN
			OTHER PROTERULE; SPELLIN
			ERLOR COLLECTION

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3.0 LIMI	TATIONS AND PRECAUTIONS	5
4.0 DETA	ILED PROCEDURE	7
4.1 4.2 4.3	Personnel Indoctrinations/Responsibilities Prerequisites Instructions	7 9 9
	APPENDICES	

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1.0 OBJECTIVE

To provide a means of classifying off-normal events into one of the four emergency classifications described in the PVNGS Emergency Plan.

2.0 REFERENCES

- 2.1 Implementing References
 - 2.1.1 EPIP-03, "Notification of Unusual Event Implementing Actions"
 - 2.1.2 EPIP-04, "Alert Implementing Actions"
 - 2.1.3 EPIP-05, "Site Area Emergency Implementing Actions"
 - 2.1.4 EPIP-06, "General Emergency Implementing Actions"
 - 2.1.5 EPIP-15, "Protective Action Guidelines".
 - 2.1.6 EPIP-20, "Personnel Assembly and Accountability".
 - 2.1.7 PVNGS Technical Specifications
 - 2.1.8 41EP-1ZZ01, "Emergency Procedure"
 - 2.1.9 71AC-92Z01, "Event Related Reporting"
 - 2.1.10 41RO-1ZZ10, "Functional Recovery Procedure"
 - 2.1.11 PVNGS Security Plan
 - 2.1.12 41RO-1ZZ01, "Reactor Trip Recovery Procedure"
- 2.2 Developmental References

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- 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. 5
 - 2.2.3 PVNGS Final Safety Analysis Report (FSAR), Amendment 14, February 1985
 - 2.2.4 CEOG EOP Technical Guidelines, CEN-152, Rev. 02, April 1984

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EVENOE		REVISION	1.277.22
EMERGE	NCY CLASSIFICATION	4	Page 5 of 27
2.2.5	EPA-520/1-75-00, "Manual of Protective Actions for Nuc	of Protective Actic clear Incidents," H	ons Guides and Revised June 1980
2.2.6	10 CFR 50, "Domestic Licer Facilities," 1983.	nsing of Production	n and Utilization
2.2.7	CEOG Task 467, May 1983, ' Assessment".	Guideline for Core	Damage
3.0 <u>LIMI</u>	TATIONS AND PRECAUTIONS		
ar an of	rveillance and assessment of e necessary to ensure approp d appropriate Protective Act fsite officials. These PARs en no release is in progress	tion Recommendation are made to offst	ion of an event
3.2 De	finitions and Abbreviations		
3.2.1	Notification of Unusual Ex to unusual events which an which indicate a potential of the plant. No releases offsite response or monito degradation of safety syst	te in progress or h degradation of th of radioactive ma oring are expected	have occurred the level of safet
3.2.2	Alert - This classification progress or have occurred potential substantial degr the plant. Any releases a fractions of the Environme Action Guideline exposure	which involve an a radation of the lever are expected to be antal Protection As	vel of safety of
3.2.3	Site Area Emergency - Cons progress or have occurred major failures of plant fu of the public. Any releas Environmental Protection A beyond the site boundary.	which involve actu unctions needed for ies are not expected	the protection
3.2.4	General Emergency - Consis or have occurred which inv core degradation or meltir containment integrity. Re to exceed EPA Protective A	olve actual or imm of with potential f leases can be reas	inent substantia for loss of

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offsite for more than the immediate site area.

to exceed EPA Protective Action Guideline exposure levels

			NCY PLAN	PROCEDURE NO. EPIP-02	
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	3.2.5	ARM -	Ares Radiation Mon	itor	
	3.2.6	PRM -	Process Radiation		
	3.2.7	PAG -	Protective Action (establishing recom by offsite authority public.	mendations given t	o and acted upon
	3.2.8	MSLB -	Main Steam Line Bro	eak	
	3.2.9	MSSS -	Main Steam Support	Structure	
	3.2.10	SBCS -	Steam Bypass Contro	ol System	
	3.2.11	ADV -	Atmospheric Dump Va	alves	
	3.2.12	ESFAS -	Engineered Safety 1	Features Actuation	System
		PAR -	Protective Action I		
	3.2.14	RPS -	Reactor Protection	System	
	3.2.15	RO -	Recovery Operating	Procedures	
1	3.2.16	CHIC -	Corporate Headquart	ters Information C	enter
100	3.2.17	CEC -	Corporate Emergency		
	3.2.18	JENC -	Joint Emergency New	vs Center	
	3.2.19	SS -	Shift Supervisor		
	3.2.20	EC -	Emergency Coordinat	or	
	3.2.21	RMS -	Radiation Monitorin	ng System	
	3.2.22	WB -	Whole Body		

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	NO. EPIP-02

4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

NOTE

The rationale and criteria used to derive Appendices A and B is given in Appendix C. Appendix C describes the criteria used in the development of the emergency classifications. It is intended for information only, not for event classification.

EPIP-02 is not implemented for the notification of significant events unless a situation degrades to the point of impacting on a fission product barrier and compromising a safety function. Notification of significant events is made per 71AC-9ZZ01, "Event Related Reporting".

- 4.1.1 If a conflict or uncertainty exists, the more conservative, higher numbered, Implementing Action EPIP should be initiated when classifying the event.
- 4.1.2 For Emergency Classifications of ALERT or higher, the Shift Supervisor of the designated unaffected unit shall relieve the Shift Supervisor of the affected unit as the Emergency Coordinator. For Notification of Unusual Events it will be the discretion of the Shift Supervisor of the affected unit, if he is to be relieved as Emergency Coordinator by the Shift Supervisor of the designated unaffected unit.
- 4.1.3 The normal assignments of designated unaffected unit Shift Supervisors are listed. If conditions exist which make the use of the listed Shift Supervisor undesirable, another qualified individual may relieve as the Emergency Coordinator at the discretion of the affected unit Shift Supervisor.
- 4.1.4 If an indication of barrier challenge or failure exists which is inconsistent with the recovery procedure in use, initiate the Emergency Classification indicated and rediagnose plant conditions to identify any additional procedure which may be necessary to address existing conditions.

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4.1.5 The rationale used to develop the classification of events based on indications of barrier challenge or failure is provided in Appendix C. This information describes the relationship between safety function and barrier integrity.

4.1.6 Responsibilities of the affected unit shift supervisor are:

4.1.6.1 ' Initial classification of the event per this procedure.

NOTE

Designated Unaffected Unit Shift Supervisor to assume the role to the Emergency Coordinator in the <u>Onshift</u> Emergency Organization are:

Affected U	nit SS	Unaffected	Unit	SS
Unit	1	Unit	the second s	
Unit	2	Unit	1	
Unit	3	Unit	2	
Entire	Site	Unit	1	

- 4.1.6.2 Notification of the Shift Supervisor of the designated unaffected unit or other individual selected as Emergency Coordinator.
- 4.1.6.3 Organization of the onshift staff to place the plant in a safe condition.
- 4.1.6.4 Assumption of the Emergency Coordinator's position until relieved.
- 4.1.7 Responsibilities of the Emergency Coordinator are:
 - 4.1.7.1 Overall responsibility for directing the onshift emergency response organization.
 - 4.1.7.2 Implement EPIP's based on initial classification.
 - 4.1.7.3 Verification/reclassification of the event after initial licensee actions are completed.
 - 4.1.7.4 Monitoring plant conditions and reclassifying the event as necessary until the event is terminated.
 - 4.1.7.5 Downgrade the event based on plant status with all safety functions satisfied and boundary status verified.

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4.1.7.6 Terminate the event taking into account that the event has been downgraded and the anticipated plant response is such that there should be no challenge to any fission product barriers or radiation releases in excess of Tech Specs; and present plant conditions are such that there is no possibility of an adverse impact on the health or safety of the general public or plant personnel.

4.2 Prerequisites

- 4.2.1 A situation has occurred which requires the implementation of the PVNGS Emergency Plan to protect the health and safety of the public.
- 4.3 Instructions

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- 4.3.1 When plant conditions are such that Emergency Plan implementation may be required, the Shift Supervisor/Emergency Coordinator shall perform the following:
- 4.3.2 Classify the event using the appropriate appendix:

Appendix A - If an event oriented Recovery Procedure or the functional Recovery Procedure is in use.

Appendix B - If a non-Rx trip event has occurred.

- 4.3.3 If 41RO-12201, "Reactor Trip Recovery Procedure", is in use and effectively directing the maintenance of Critical Safety Functions and plant recovery, the CRS/EC may elect to NOT classify an uncomplicated Reactor Trip as NUE. Plant parameters must be trending as expected in order to NOT classify a Reactor Trip as a NUE. Appropriate notifications should be made per 71AC-92Z01, "Event Related Reporting".
- 4.3.4 Record the date/time/events of initial classification. Upon verification/reclassification of the event, record the date and time and supporting information.
- 4.3.5 -Initiate and complete the implementing actions given in the appropriate classified-event implementing procedure (i.e., EPIP-03, 04, 05 or 06).

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Offsite Dose and Barrier Challenge/Failure Event Classification

- 1.0 Determine the event classification as follows:
 - 1.1 Evaluate any barrier challenges/failure per Appendix A, Table 1.
 - Evaluate any current offsite radioactive release per Appendix A, Table 2.

4

NOTE

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

2.0 Select the most restrictive, higher classification, from the Table 1 and Table 2 evaluations as the event classification.

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Appendix A

Table 1 - Barrier Challenge/Failure Classification Criteria

1:0 Make Checks by any of the following conditions that currently exist: <u>RCS</u> <u>CLAD</u> <u>CONTAINMENT</u>

_ RVLMS indicates voiding in upper plenum

_ ATWS

RCS pressure
> 2750 psia

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Uncontrolled loss of RCS inventory > 50 gpm Excessive RCS Activity (> 300 uc/gm dose equivalent I-131)

CET > 700 F

OR

CIAS required but not completed (i.e. both automatic valves in a penetration fail to close)

Physical breach

of containment

H₂ concentration > 3.5% by volume

Containment pressure > 50 psig

Vital Auxiliaries/Radiation Release

- Loss of offsite and onsite AC power
- Loss of offsite and onsite AC power for longer than 60 minutes
- Loss of all Class IE DC power.
 - Loss of all Class IE DC power for longer than 15 minutes.
 - Failure of ESF Safety Systems (both trains) to actuate when required
 - > 10gpm primary/secondary leakage concurrent with LOP

OR

> 10 gpm primary/secondary leakage concurrent with loss of secondary coolant outside containment

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	Appendix A	
Table 1 - Barrier Challenge/Fai	lure Classification	<u>a Criteria</u> (Cont'd

Number of Checks made in 1.0 Barrier Status Classification 0 No barriers lost Unusual Event or challenged (EPIP-03) 1 One barrier lost Alert (EPIP-04) or challenged 2 Two barriers lost Site Area Emergency or challenged (EPIP-05) 3 or Three barriers lost General Emergency more or challenged (EPIP-06)

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Appendix A

Table 2 - Offsite Dose Projection Classification Criteria

Based upon information provided by the Radiation Protection Group and/or RMS, determine the emergency classification level according to the following:

Notification of Unusual Event (EPIP-03)

Plant Vent Monitor	DI1-1/2 0		
		nn. 1	
Fuel Bldg. Exh. Monitor			> 1.04 E-2 uci/cc
Condenser Exh. Monitor	RU-141		> 1.2 E-1 uci/cc
Alert (EPIP-04)			
Plant Vent Monitor	RU-144 C	hn. 1	> 3.45 E-3 uci/cc
Fuel Bldg Exh. Monitor	RU-146 C	hn 1	
Condenser Exh. Monitor			
construct man, nonitor	RU-142 C	nn. 1	> 1.3 E-1 uci/cc
Site Area Emergency (EPIP-05	2		
Plant Vent Monitor	RU-144 C	hn. 1	30 min. @ > 3.45 E-1 uci/cc
	RU-144 C		2 min. @ > 3.45 uci/cc
			- will. @ - 5.45 uc1/cc
Fuel Bldg. Exh. Monitor	RU-146 C	hn. 1	30 min. @ > 1.12 uci/cc
	RU-146 C		
			2 min. @ > 1.12 E + 1 uci/cc
Condenser Exh. Monitor	RU-142 C	hn. 1	30 min. @ > 1.3 E + 1 uci/cc
	RU-142 C		
	NO 146 0		2 min @ > 1.3 E + 2 uci/cc
General Emergency (EPIP-06)			
			the second s
Plant Vent Monitor	BTT_ 1// M	1 0	

Flant Vent Monitor	RU-144 C	hn. 2	> 6.9 uci/cc
Fuel Bldg. Exh. Monitor	RU-146 C	hn 2	
Condenser Exh. Monitor			> 2.24 E + 1 uci/cc
and a man india box	10-145 0	· · · · · · ·	> 2.6 E + 2 uci/cc

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Appendix B

Non Rx Trip Event Classification Criteria

- 1.0 Classify non Rx trip events as follows:
 - 1.1 Based on existing plant conditions select the most appropriate event category from below:

Event CategoryTabIncrease in Radiation Levels or
Radioactive Effluent Release Rate1Technical Specification LCO Nonconformance2Degraded Facility Control, Indication,
or Alarm3Fire and/or Security Compromise4Natural Disaster/Physical Hazard to Facility5

1.2 Refer to the indicated tab for the event category chosen and select the classification appropriate for existing conditions.

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TAB 1 Increase in Radiation Levels or Radio	active Effluent H	Release Rate
Notification of Unusual Event (EPIP-03	1)	/
- RCS sample activity requires shu	-	
- Rad Protection and/or RMS confir exceed: Plant Vent Monitor RU-14 Fuel Bldg Exh. Monitor RU-14 Condenser Exh. Monitor RU-14	3 Chn. 1 > 3.4 5 Chn. 1 > 2.0	Efluent releases E-3 uci/cc 04 E-2 uci/cc 2 E-1 uci/cc
- Transportation of internally or person to offsite hospital	externally contar	insted injured
Alert (EPIP-04)	/	
- RCS sample activity > 300 uC/gm/	(DE I-131)	
- Direct radiation readings within	facility increas	se by 1000
- Rad Protection and/or RMS confir exceed:	ms radioactive et	ffluent releases
Fuel Bldg. Exh. Monitor RU-14	6 Chn. 1 > 1.12	E-3 uci/cc E-1 uci/cc E-1 uci/cc
- RCS leak rate > 50 gpm		*
	*	

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TAB 1

Increase in Radiation Levels or Radioactive Effluent Release Rate

Notification of Unusual Event (EPIP-03)

- RCS sample activity requires shutdown per Tech Spec 3.4.7
- Rad Protection and/or RMS confirms radioactive effluent releases exceed:

Plant Vent Monitor	RU-143 Chn. 1	> 3.2 E-3 uci/cc
Fuel Bldg. Exh. Monitor	RU-145 Chn. 1	> 1.04 E-2 uci/cc
Condenser Exh. Monitor	RU-141	> 1.2 E-1 uci/cc

- Transportation of internally or externally contaminated injured person to offsite hospital

Alert (EPIP-04)

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- RCS sample activity > 300 uC/gm (DE I-131)

NOTE

Radiation readings "increase by 1000" refers to unexpected or casualty situations. This is not meant to include normal plant evolutions such as resin transfer or source transport. RU#Z

- Direct radiation readings within facility increase by 1000
- Rad Protection and/or RMS confirms radioactive effluent releases exceed:

Plant Vent Monitor	RU-144 Chr	. 1	> 3.45 E-3 uci/cc
Fuel Bldg. Exh. Monitor	RU-146 Chr	. 1	> 1.12 E-1 uci/cc
Condenser Exh. Monitor	RU-142 Chr	. 1	> 1.3 E-1 uci/cc

- RCS leak rate > 50 gpm

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Site Area Emergency (EPIP-05)

- Major damage to spent fuel
- Rad Protection and/or RMS confirms effluent radioactive releases exceed:

Plant Vent Monitor	RU-144 Chn. RU-144 Chn.	min. @ > 3.45 E-1 uci/cc in. @ > 3.45 uci/cc
Fuel Bldg. Exh. Monitor	RU-146 Chn. RU-146 Chn.	min. @ > 1.12 uci/cc in. @ > 1.12 E + 1 uci/cc
Condenser Exh. Monitor	RU-142 Chn. RU-142 Chn.	 nin. @ > 1.3 E + 1 uci/cc in @ > 1.3 E + 2 uci/cc

- Rediation Protection measures > 50 MR/Hr at site boundary with portable instruments

General Emergency (EPIP-06)

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- Rad Protaction and/or RMS confirms effluent radioactive releases exceed:

Plant Vent Monitor	RU-144	Chn.	2	> 6.9 uci/cc
Fuel Bldg. Exh. Monitor	RU-146	Chn.	2	> 2.24 E + 1 uci/cc
Condenser Exh. Monitor	RU-142	Chn.	2	> 2.6 E + 2 uci/cc

- Radiation Protection measures > 1.0 R/Hr at site boundary with portable instruments

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TAB 2

Technical Specification LCO Non-Conformance

Notification of Unusual Event (EPIP-03)

- Rad Protection and/or RMS confirms section 3/4.11 Tech Spec Radiological Effluent limits exceeded
- RCS activity sample requires shutdown per Tech Spec 3.4.7
- Noncompliance with a technical specification, such that the requirement of the LCO and associated action requirements are not met within the specified time intervals and require reactor shutdown.

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Alert (EPIP-04)

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- RCS leakrate >50 gpm

- ATWS Site Area Emergency (EPIP-05)

None

General Emergency (EPIP-06)

None

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TAB 3

Degraded Facility Control, Indication and Alarm

Notification of Unusual Event (EPIP-03)

- Degraded control room indication or alarms on process parameters such that plant shutdown is required

Alert (EPIP-04)

- Loss of most or all annunciators
- Evacuation of control roon required or anticipated
- Complete loss of any function needed for plant cold shutdown, when in cold shutdown
- ATWS

Site Area Emergency (EPIP-05)

- Loss of most or all annunciators and plant transient indicated or in progress
- Imminent loss of physical control of a plant
- Complete loss of any function the start of plant hot shutdown, when in hot shutdown
- Control room evacuated and local control of shutdown systems not established within 15 minutes

General Emergency (EPIP-06)

- Loss of physical control of the facility

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TAB 4

Fire and/or Security Compromise

Notification of Unusual Event (EPIP-03)

- Fire within the Unit lasting longer than 10 minutes
- Paclared Security Emergency
- Declared Security Alert (with offsite authorities notified and immediate response requested)

Alert (EPIP-04)

- Required evacuation of control room
- SS/EC determines that the level of plant safety is substantially reduced due to fire or ongoing security compromise.

Site Area Emergency (EPIP-05)

- Imminent loss of physical control of the plant
- Control room evacuated and local control of shutdown systems not established within 15 minutes
- Fire compromising the operability of safety systems in both trains

General Emergency (EPIP-06)

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- Loss of physical control of the plant
- Any major internal or external events which could cause massive damage to plant systems potentially leading to releases of large amounts of radioactivity

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TAB 5

Natural Disaster/Physical Hazard to Facility

Notification of Unusual Event (EPIP-03)

- Natural phenomenon beyond usual level experienced or projected

Earthquake greater than 0.1g ground shaking, flood, tornado onsite

- Other hazards experienced or projected

Aircraft crash onsite or unusual aircraft activity over facility

Train derailment onsite

Explosion near or onsite

Toxic or flammable gas release near on onsite

Turbine rotating component failure resulting in rapid shutdown

Alert (EPIP-04)

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- Severe natural phenomena experienced or projected with unit in modes 5-6

Earthquake greater than design levels, 0.2g ground shaking,

Tornado striking facility, or

Severe flooding

- Other hazards experienced or projected

Aircraft crash on facility

Missile impacts on facility

Explosion damage to facility affecting plant operation

Toxic or flammable gas restricts entry to facility environs

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Site Area Emergency (EPIP-05)

- Severe natural phenomena experienced or projected with unit in modes 1-4

Earthquake greater than design levels, 0.2 ground shaking.

Flood with failure of protection of vital equipment

Sustained winds in excess of design levels

- Other hazard experienced or projected with unit in modes 1-4

Aircraft crash affecting vital structures by impact

Severe damage to safe shutdown equipment by missile or explosion

Lack of entry into vital areas due to uncontrolled toxic or flammable gas

General Emergency (EPIP-06)

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- Any major internal or external events which could cause massive damage to plant systems potentially leading to release of large amounts of radioactivity

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Site Area Emergency (EPIP-05)

- Severe natural phenomena experienced or projected with unit in modes 1-4

Earthquake greater than design levels, 0.2 ground shaking,

Flood with failure of protection of vital equipment

Sustained winds in excess of design levels

- Other hazard experienced or projected with unit in modes 1-4

Aircraft crash affecting vital structures by impact

Severe damage to safe shutdown equipment by missile or explosion

Lack of entry into vital areas due to uncontrolled toxic or flammable gas

General Emergency (EPIP-06)

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 Any major internal or external events which could cause massive damage to plant systems potentially leading to release of large amounts of radioactivity

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CLASSIFICATION CRITERIA

1.0 CLASSIFICATION CRITERIA

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The classification criteria for Notification of Unusual Event through a General Emergency are based on three main considerations:

- 1) The extent of fission product barrier challenge or failure
- The projected/actual offsite dose rate associated with radioactivity releases.
- 3) Potential or actual reductions in the level of plant safety

Evaluation of these criteria allows the development of Emergency Action Levels (EALs) which are independent of event sequences and readily correlate with the symptom/function based Emergency Operating Procedure (EOP) Guidelines.

Using this system, most emergency classifications may be based on the failure of, or challenge to, the fission product barriers. "Failure" of barriers is defined in terms consistent with NUREG-0654, Appendix 1, Example Initiating Conditions - eg: primary coolant leaks of 50 gpm constitutes "failure" of the primary coolant boundary (based on charging pump capacity for 2 pumps minus minimum letdown); 300 uCi/cc dose equivalent I-131 constitutes "failure" of the clad (based on release of 1% equilibrium gas gap equivalent I-131); loss of containment integrity is defined per Technical Specification Section 1.7.

A "challenge" to a barrier is defined as one of the following conditions:

- 1) Loss of a critical safety function which protects that barrier.
- An existing situation which will cause a barrier failure within a given time period unless successful corrective actions are implemented.
- An initiating event which in all probability has damaged a fission product barrier but has yet to be verified.

The SS/EC has the authority to increase the classification above that determined by EPIP-02 when, in his judgement, plant conditions warrant increased response and awareness from offsite personnel and agencies.

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Table 3.0 lists indications of barrier challenge/failure for RCS, Clad, Containment, and vital auxiliaries/radiation release.

The fission product barrier criteria is applied to event classification in increasing order of severity as follows:

NOTIFICATION OF UNUSUAL EVENT

1. No loss of and no challenge to a fission product barrier

ALERT

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1. A challenge to one barrier, or

2. A verified failure of one barrier

SITE AREA EMERGENCY

1. Challenges to two barriers, or

2. Verified failure of one barrier and a challenge to another, or

3. Verified failure of two barriers

GENERAL EMERGENCY

1. Challenges to all three barriers, or

2. Verified failure of one barrier and challenges to the other two. or

- 3. Verified failure of two barriers and challenge to the other, or
- 4. Verified failure of all three barriers

Guidance for evaluation and classification of non Rx trip events is taken directly from NUREG 0654. The arrangement of example situations by event categories provides an efficient method for the operator to make a classification depending upon the severity of the condition.

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2.0 EVENT CLASSIFICATION

Appendices A and B present potential plant conditions for consideration in determining event classification. SRO's and Emergency Coordinators responsible for implementing this procedure are required to be familiar with the specific conditions which constitute barrier challenge/failure and those non trip events requiring emergency classification.

Appendix A lists possible challenges/failures that might exist to the fission product barriers. A check by any of the indicated conditions constitutes one barrier challenge or failure. (Therefore, if two conditions under "RCS" are checked, that constitutes two barriers challenged or failed.) Event classification will be made after evaluating the number and extent of barrier challenge/failure along with the projected doses resulting from any offsite releases. The activity release levels associated with emergency classification levels are based on the following NUREG-0654 criteria:

Unusual Event -	Exceed Tech Spec 3/4.11 Radiological Effluent limits.
Alert -	Effluent release rate 10X Tech Spec limits or 1 mR WB @ site boundary for 2 hr release.
Site Area Emergency -	> 50 mR/hr WB @ site boundary for 30 miz. release or > 500 mR/hr WB @ site boundary for 2 min release.

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General Emergency - > 1 rem/hr WB @ site boundary.

The Site Area Emergency classification is divided into activity concentrations that must be maintained for either two or thirty minutes in order for the offsite dose limits to be met or exceeded.

Appendix B provides guidance for evaluating conditions not resulting in a Rx trip that require emergency classification per NUREG-0654. Five event categories have been selected, under which, similar non trip events can be listed according to emergency classification. Most classification should be straightforward once the event category has been selected. Event classifications based upon degraded security conditions, however, can be somewhat more involved.

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The PVNGS Security Department classifies security infractions into two types:

1. Security Alert

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2. Security Emergency

Any declared Security Emergency will be classified as a Notification of Unusual Event. Should any plant damage, loss of facility control, or loss of accessability result from a degraded security condition, the guidelines for upgrading the emergency classification are in Tab 3, Degraded Facility Control, and Tab 5, Physical Hazards to Facility. Should a security compromise further degrade such that a substantial reduction in the level of plant safety occurs, an alert classification is appropriate. The Shift Supervisor's/Emergency Coordinator's judgement will be required to determine the severity of the security intrusion and the likelihood that a fission product barrier might be challenged to warrant the upgraded emergency classification.

Security compromises resulting in a declared Security Alert with <u>immediate response</u> requested from offsite authorities is also classified Notification of Unusual Event. This will ensure notification of appropriate company management personnel to off-normal conditions serious enough to warrant <u>immediate response</u> from offsite authorities. Security Alerts of a less serious nature where offsite authority <u>assistance</u> is requested would not require classification. It should be understood that the key point to consider for classification of Security Alerts is whether offsite authorities are notified to provide <u>immediate response</u> or <u>assistance</u>.

Table 4.0 lists applicable licensee actions per event classification. These actions will be implemented per the direction of the appropriate EPIP.

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TABLE 3.0

Indications of Barrier Challenge/Failure

RCS

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CLAD

RVLMS indicates voiding in upper plenum

RCS pressure
> 2750 psia

Uncontrolled loss of RCS inventory > 50 gpm ATWS OR

> Excessive RCS Activity (> 300 uCi/gm dose equivalent I-131)

> > CET > 700 F

CONTAINMENT

Physical breach of containment

OR

CIAS required but not completed (i.e. both automatic valves in a penetration fail to close)

H₂ concentration > 3.5% by volume

Containment pressure > 50 psig

VITAL AUXILIARIES/RADIATION RELEASE

-	Loss of offsite and onsite AC power
	Loss of offsite and onsite AC power for longer than 60 minutes
	Loss of all Class IE DC power.
	Loss of all Class IE DC power for longer than 15 minutes.
—	Failure of ESF safety systems (both trains) to actuate when required
	> 10 gpm primary/secondary leakage concurrent with LOP
	OR

> 10 gpm primary/secondary leakage concurrent with loss of secondary coolant outside containment

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	TABLE 4.0 LICENSEE ACTIONS NOTE Actions are for information only, to be carried out per applicable EPIP				IMPLEMENT
Unusual Event (CPIP-03)	Alors (EPIP-Oh)	Site Area Emergency (CPIP-05)	Concret Inurgoncy (EPIP-06)	CLAS	IZ T
Inform NRC, State & County authorities of mature of unusual con- ditions; no release of radioactive material requiring offsite response or monitoring is expected unless further degradation of	Inform NRC, State & County sotherities of Alert status/ cause; any releases are exp- ected to be limited to small fractions of EPA/PAG exposure levels at the site boundary unless further degradation of safety systems occur	 Inform MRC, State & County authorities of site Area Emergency status/cause; any releases are not expected to exceed EPA/'NG exposure Inveis bayond the site boundary unless further degradation of safety systems occur 	o inform NRC, Stato & County authorities of General Emer- gency status/cause; any releases can be reasonable expected to exceed EPA/PAG expessive levels offsite for more than the immediate site area	SSIFICATION	G PROCEDUR
Based on the situation recommend that no protective action is	O Recommend to the State that the Public be appraised of the situation and stay tuned to EBS/KIAR radio station	e Recommond to the State that con- sideration of appropriate pro- tective actions based on actual or projected data is verranted per the appropriate EPIP	e Recommend to the State that con- sideration of appropriate pro- tective actions based on actual or projected data is varianted per the appropriate [Pi]	N	
	 Augmont resources by activating SISC, TSC, OSC, EOF, JENC, CHIC and CEC 	• Augment resources by stivig. SISC, TSC, OSC, EOF, JENC, CHIC, and CEC	 Augment resources by ativity. STSC, TSC, OSC, EOF, JENC, CHIC and CEC 		m
Augment enshift resources Activate \$15C	e Dispatch (onsite/offalte) Monitoring Teams with Assoc. communications	e Dispetch (onsite/offsite) field Monitoring Teams with associated communications equipment	o Dispatch (onsite/offsite) field Monitoring with associated communications equipment		
CHIC	equipment e Provida meteorological assessments to offaite	Provide a dedicated individual for plant status updates to offsite suthorities	o Provide a dedicated individual for plant status updates of offsite authorities	R	N
Torminate with verbal summary to offsite authorities followed by written report	suthorities and if releases are occurring, dose estimates for actual releases		o Make senior technical and management staff available for periodic consultation with	REVISION	EPIP-0
within 2% hours of	rs e Terminate by verbal summery to offsite authorities followed by written summery	authorities o Provide release and dese	NRC and State	Z	IP-
iscalate to a higher lissification	within & hours OR	projections based on available plant condition information and foreseeable contingencies	o Provide motoorological data and dose estimatos (for actual releases) to offsite authorities via a dedicated individual	4	02
	e Escalate to a higher classification	D Terminate (or reduction of) dmargency class verbally at EOF followed by written summary within 8 hours	e Provide rolesse and dose projections based upon available plant condition information and formateable contingencies		
		OR • Escalate to GENERAL EMERGENCY	e Tersinate (or reduction of) emergency	Page	APPENDI Page 6
rotective action recommon ffeite officials aven whe	dations are based on plant and co in no release is in progress	inteliment conditions and these recomm	undations are made to	27 of	6 of 6

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
5	12-18-84	Complete	Revised Appendices and
			Cellouts
6	02-08-85	Complete	Incorporated PCN's #01 & 02
			of Rev. 5 Revised Appendices
		1123511236	and Callouts.
7	05-10-85	9, 10, 16	Incorporated PCN #01 of Rev.
			6 and added step for
			cancellation using group
			page.
	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.

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
9	09-10-85	4, 5, 7, 9,	Incorporated PCN# 1 & 2
		10, 11, 12,	of Rev. 8. Added specific
		19, 20, 24,	announcement instructions,
		25, 26	instructions for notifing
			compliance, new group paging
			system # and added STSC
	1	11100	Communication checklist.
10	09-10-85	4, 7, 9, 10, 11	Incorporated PCN# 1 & 2 of
-		12, 13, 14,	Rev. 9. Deleted Time/
		16, 17, 24,	Initials Column in
		25, 26	Appendices I and J.
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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 PVNGS Emergency Plan, Rev. 6
- 3.0 LIMITATIONS AND PRECAUTIONS

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

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4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

- 4.1.1 In a NOTIFICATION OF UNUSUAL EVENT situation, time is available to take precautionary and constructive steps to prevent a more serious event and/or to mitigate any consequences that may occur. This event status places the plant in a readiness position for possible cessation of routine activities and/or augmentation of onshift resources. No releases of radioactive material requiring offsite response are expected. Appropriate notification of NRC and state/county authorities is made.
- 4.1.2 The Shift Supervisor shall be responsible for initiating this procedure. The Emergency Coordinator shall be responsible for completing the implementing actions of this procedure.
- 4.2 Prerequisites
 - 4.2.1 The emergency has been classified per EPIP-02, "Emergency Classification."
- 4.3 Instructions
 - 4.3.1 The affected unit Shift Supervisor shall perform the following:

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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				it 2	
Unit 2			Un	tt 1	
Unit 3			Un:	tt 2	
Entire	Site		Uni	tt 1	

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4.3.1.	Notify the Shift Super unit (or Shift Superv report to the Control assume the duties of the For NOTIFICATION OF UN discretion of the affect is to be relieved as a supervisor of an unaff	isor of an unaffect Room of the affect the onshift Emergen NUSUAL EVENT, it wi ected unit Shift Su Emergency Coordinat	ed unit) to ed unit and cy Coordinator. 11 be at the
4.3.1.	2 Notify the Control Roo	oms of the unaffect	ed units.
4.3.1.			
	"ATTENTION ALL PLANT I UNUSUAL EVENT HAS BEEN SUPPORT CENTER AND OPP PERSONNEL FOR UNIT STATION. OTHER PERSON ORGANIZATION - STANDEN WITH NORMAL ROUTINE UN	N DECLARED. SATELL ERATIONS SUPPORT CE , REPORT TO YOU NNEL ASSIGNED TO TH Y. ALL OTHER PERSO	ITE TECHNICAL NTER EMERGENCY R EMERGENCY E EMERGENCY NNEL CONTINUE
	(Give a brief descript and repeat the annound	tion of the event, cement).	if appropriate,
4.3.1.	Ensure the announcement the Site Warning Sires	nt in step 4.3.1.3 n/Public Address Syn	is repeated over stem.
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NOTE

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

NOTE

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

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

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4.3.2.3 Determine the need for needed, additional per existing on-shift org		sonnel should be r	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 t	he OSC to
4.3.2.5	Direct the STSC Commun "Follow-up Emergency M instructions provided	essage Form" in ac	Appendix D, cordance with
4.3.2.6	Reevaluate the emergen licensee actions as co EPIP-02.	ency classification and perform conditions change by 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 ication procedures nounce 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 o per Appendix I - Ea	f the <u>ONSHIFT</u> mergency
4.3.3 PVNGS Security, after bei Coordinator or STSC Commu UNUSUAL EVENT is in progr terminated, shall complet		ing notified by the Emergency unicator that a NOTIFICATION OF ress or has occurred, or has be te Appendix B, "Emergency PVNGS Security," and notify th ts of the situation.	FICATION OF , or has been gency d notify these
4.3.4 Em	ergency Situation Termin		
4.3.4.1	Consult with the PVNGS emergency.	Plant Manager pric	or to closing out

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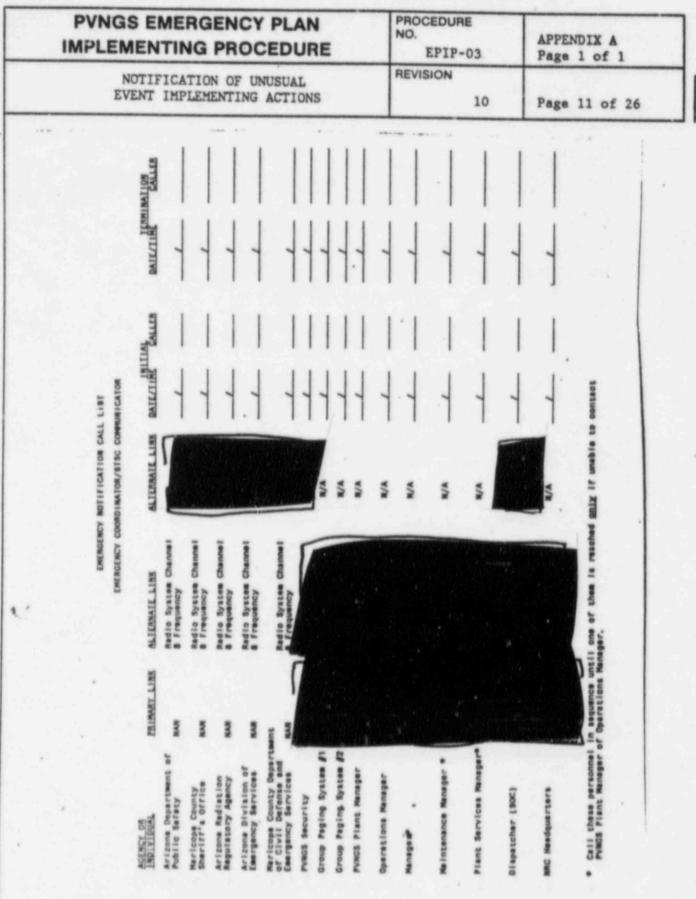
	RGENCY PLAN	PROCEDURE NO. EPIP-03	
	TION OF UNUSUAL LEMENTING ACTIONS	REVISION 10	Page 10 of 26
4.3.4.2	ensure the following a wide telephone page (p	nnouncement is mad hone no. 800):	e over the plant
	DECLARED IN UNIT	SONNEL, THE EMERGE HAS NOW BEEN nstructions as nec	TERMINATED."
4.3.4.3	Ensure the announcemen	t in step 4.3.4.2	is repeated over
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	the site warning siren	/public address sy	stem.
4.3.4.4	Ensure the announcemen repeated once.	t 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 F	icator to fill out Appendix E, Message Form," per instructions	
4.3.4.6	Direct the STSC commun per Appendix A.	icator to transmit	the termination
4.3.4.7	The S.S./E.C. shall no ext. (or beeper N during off hours) and provided to offsite au S.S./E.C. shall provid room logs, etc. as req preparation of the rep	o. request a written thorities within 2 e copies of shift uested by Complian	summary be 4 hours. logs, control
4.3.5 Re	cord Retention		
4.3.5.1	Appendices A, B, C, D, the Emergency Planning ensure they are forwar accordance with 9N219. Control."	ded to DDC for pro	on 6010, to per storage in
New Street, 199			

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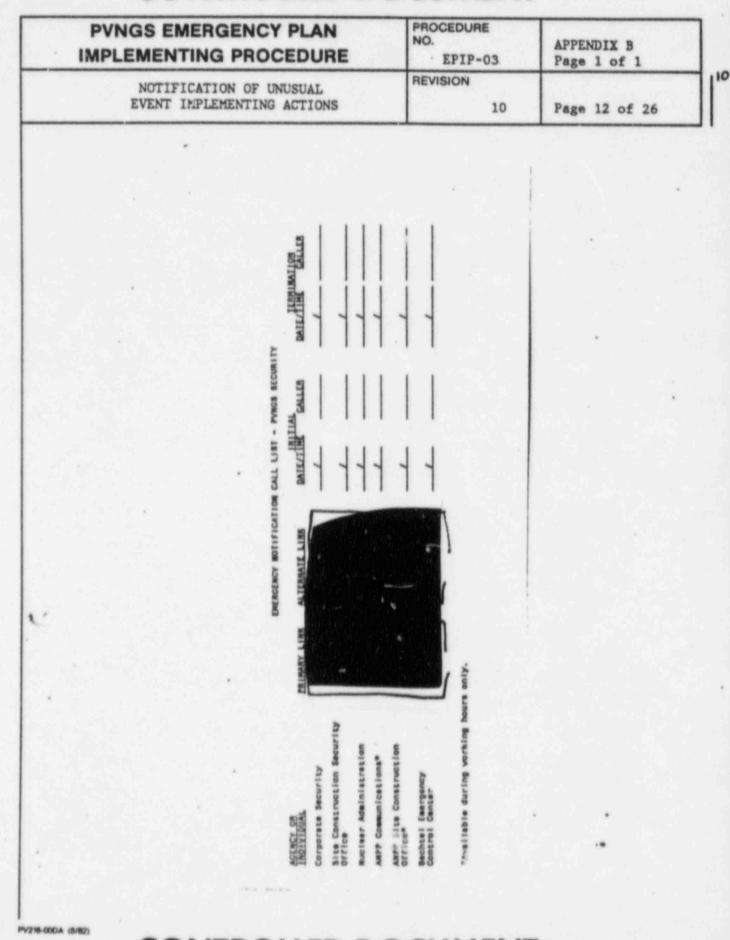
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	NGS EMERGENCY PLAN EMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX C Page 1 of 1
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 13 of 26
		NCY MESSAGE FORM T UNUSUAL EVENT, NCY, OF GENERAL EMERG	GENCY
1	erbatim text of Message: THIS I S PALO VERDE NUCLEAR GENERATING ALERT) (SITE AREA EMERGENCY) (GE (circle applic	STATION (NOTIFICATIO	ON OF UNUSUAL EVEN
	(time) (date)	rom degrees -	Atmph. (speed)
PALC	VERDE AUTHENTICATOR	icator letters)	
2. This	is, at	the Palo Verde Nucle	ar Generating
Stat	(name/title) ion Unit		
3. (Cir	cle One)		
(a)	There is <u>NO</u> , repeat <u>NO</u> , radioac protective actions are recommen	tive release taking ded at this time. R	place and no spec
(b)	There is <u>NO</u> , repeat <u>NO</u> , radioac operating limits and <u>NO</u> protect O	tive release in exce ive actions are reco R	mmended at this t
(c)	There is <u>NO</u> , repeat <u>NO</u> , radioac However, the following protecti Sectors	tive release taking ve actions are recom Distance (M	mended.
(d)	A radioactive release <u>IS</u> , repea people in affected sectors rema Sectors	t IS, taking place.	ows and doors clos
		R	
(e)		t IS, taking place.	
1.16.12	IS (IS NOT) A DRILL!! (Circle O		<u>.</u>
4. THIS			

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IMI	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 EMERGEN	NCY MESSAGE FORM	•
1.	Verbatim text of Message: THIS THIS IS A PALO VERDE NUCLEAR GEN message concerning the (NOTIFICA AREA EMERGENCY) (GENERAL EMERGEN (circle app)	NERATING STATION fol. ATION OF UNUSUAL EVEN	low-up informatic NT) (ALERT) (SITE
	declared at		
	(time) (date)	
2.	This is, at Unit, title)	Palo Verde Nuclear	Generating Stati
з.	Brief description of event		
		the second s	
4.	Meteorological Data		
4.	Meteorological Data a. Wind direction from (directio	(degrees) - at(s;	miles per hou peed)
4.	a. Wind direction from	n) (s;	miles per hou peed)
4.	a. Wind direction from (directio	tor) (s;	miles per hou peed)
4.	 a. Wind direction from (direction from (direction)) from (sector) to (sector) b. Stability Class: A B C D E 	n) (s; tor) F G One)	miles per hou
4.	 a. Wind direction from (direction from (direction)) b. Stability Class: A B C D E (Circle) c. Precipitation Yes No 	n) (s; tor) F G One)	miles per hou peed)
	 a. Wind direction from (direction from (direction)) b. Stability Class: A B C D E (Circle c) c. Precipitation Yes No (Circle c) 	n) (s; tor) F G One)	miles per hou peed)

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	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 Ci	/second	
	b. Noble Gas Ci c. Particulates Ci	/second	
7.	Two-hour plume centerline projected	dose at:	
	Distance Sector Whole Body Dose (REM)	Child Thyroid Dose Commitment (REM)	
	Site Boundary		
	2 miles		
	2 miles 5 miles		
8.	5 miles		
8.	5 miles 10 miles		

	NGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX D Page 3 of 3
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 16 of 20
10.	The Following Emergency Measures I Recommended:	ncluding Protectiv	e Actions are
	The Following Emergency Response A		
			y.
12.	We Request the Following Onsite Su Sources:	pport and Assistan	ce from Offsite
12.	We Request the Following Onsite Su Sources:	pport and Assistan	ce from Offsite
	We Request the Following Onsite Su Sources: Our Prognosis of the Emergency is Are Under Control Can Be Expected to Terminate Are Worsening	that Conditions:	
13.	Our Prognosis of the Emergency is Are Under Control Can Be Expected to Terminate	that Conditions:	
13.	Our Prognosis of the Emergency is Are Under Control Are Worsening	that Conditions: Withinhours	

	VNGS EMERGENC		PROCEDURE NO. EPIP-03	APPENDIX E Page 1 of 1
	NOTIFICATION OF U EVENT IMPLEMENTING		REVISION 10	Page 17 of 2
	EMERGENC	TERMINATION	MESSAGE FORM	
1.	Verbatim text of mes THIS IS PALO VERDE N UNUSUAL EVENT) (ALER (circle approprite c AT	UCLEAR GENERAT (SITE AREA	ING STATION. THE EMERGENCY) (GENERA	(NOTIFICATION OF L EMERGENCY)
	(Time)	(Date)	HEO DEEN TERIT	ALLO AL
	(Time)	(Date)	1.1	
2.	This is(Nam		101-1-1	, at Palo
	Verde Nuclear Genera	ting Station U	(Title)	
3.	PALO VERDE AUTHENTIC			
			Authenticator Lette	ars)
App	(SS/EC/EOD)		Date/T:	lme
App			Date/T:	Læe
Apŗ			Date/T:	Læ
Apŗ			Date/T:	Læ
Apŗ			Date/T:	

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

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-03	APPENDIX F Page 2 of 3
I	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 19 of 20
1.5	In the event that an offsite not answer the NAN phone or N drill, or actual emergency, t Communicator) shall notify th (numbers listed in App. A)	AN backup radio dur he nuclear operator	ing a test, (or STSC
1.6	When contact is made, the cal request that the individuals Emergency Message Form.	ler shall identify i obtain a copy of th	himself and e appropriate
1.7	When each individual has obta Emergency Message Form verbat verbatim.	ined a copy, read this and request MCSO	he completed to read back
1.8	Offer to repeat information a	nd reiterate as nec	essary.
	NOT	Ē	
	To verify the group page pager installed in the S much as two (2) minutes a dial-up and the broadcas	TSC. Be aware that may lapse between	r the as
1.9	Notify additional personnel and inform them of the situat for both Group Paging Systems	ion. Provide the fo	ollowing message
	"THIS IS PVNGS, UNIT PLEASE RESPOND APPROPRIA once).	, CLASSIFICATION ON TELY" (Repeat messa;	5, . ge
1.10	If an individual requests information only after 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 declaring	12 an emergency
1.12	When contact is made, the cal the completed Emergency Messa Verde_Authenticator).	ler shall identify) ge Form verbatim (or	himself and read nit the Palo
1.13	Offer to repeat information as	nd reiterate as nece	essary.

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-03	APPENDIX F rage 3 of 3
	NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 20 of 2
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-rasteps 4-9 may be deleted.	adiological in natu	ure,
2.2	Obtain from the Radiation Proto complete steps 4-9.	action Monitor data	a required to
2.3	Obtain from the Emergency Coord steps 10-14.	dinator data requi	red to complete
2.4	Circle appropriate wording in s	step 15.	
2.5	Dispense information when reque ARRA).	ested by offsite a	gencies (NRC or
3.0	EMERGENCY TERMINATION MESSAGE FOR	M (APPENDIX E)	
3.1	Fill in data required by steps Termination Message Form."	1-3 to Appendix E,	"Emergency
3.2	Obtain approval from SS/EC/EOD.		
3.3	Transmit termination per Append	iix A.	
	NOTE		
	To verify the group page a pager installed in the STS much as two (2) minutes ma dial-up and the broadcast	SC. Be aware that ay lapse between	as
3.4	When using the Group Paging System termination, use the following	tems to announce e message:	event
	"THIS IS PVNGS, UNIT TERMINATED. PLEASE CANCED	EMERGENCY RESPONSE TO EMERG	SENCY."

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-03	APPENDIX G Page 1 of 2	
NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	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.

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

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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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NOTIFICATION OF UNUSUAL EVENT IMPLEMENTING ACTIONS	REVISION 10	Page 24 of 26	1

EMERGENCY COORDINATOR RESPONSE

POSITION FILLED BY:

Onshift Organization

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

RESPONSIBILITY:

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

INITIAL RESPONSE

- 1. Ensure plant wide public address announcement is made as per steps 4.3.1.3 and 4.3.1.4 of this procedure.
- 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.

SUBSEQUENT RESPONSE

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- 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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	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	FOR 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 and allow the res	ort the emergency ponse personnel
11.	As appropriate, complete Follow-up Eme	ergency Message For	n.
12.	Reevaluate the emergency classificatio reclassify as necessary. Keep PVNGS P of event.	on as conditions ch Plant Manager inform	ange per EPIP-02, med as to status
13.	Reassess corrective and protective act	ions. Verify activ	vities 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 a same.	closed 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.	sor to provide
17.	Notify PVNGS Compliance at ext. event termination. Provide logs as re	quested.	of
		19.2	

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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

<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

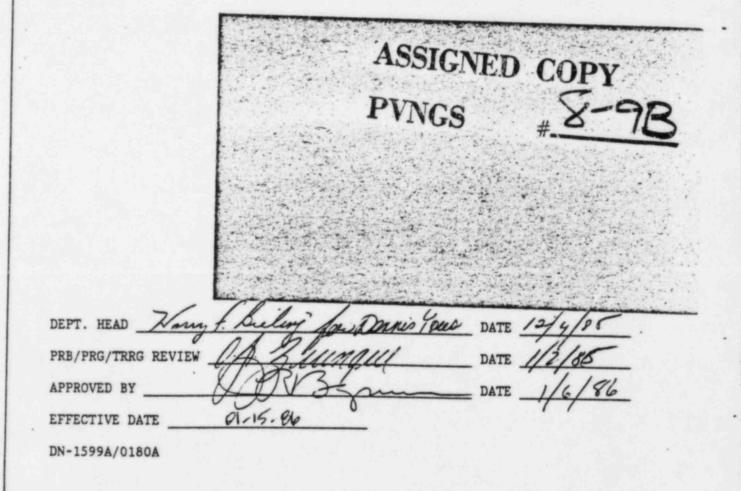
- 2. Complete the Initial Emergency Message Form as directed by the onshift Emergency Coordinator or Shift Supervisor.
- Initiate notification process as directed by Emergency Coordinator (or Shift Supervisor, in his absence).
- 4. Inform Emergency Coordinator when initial notifications are complete.
- 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

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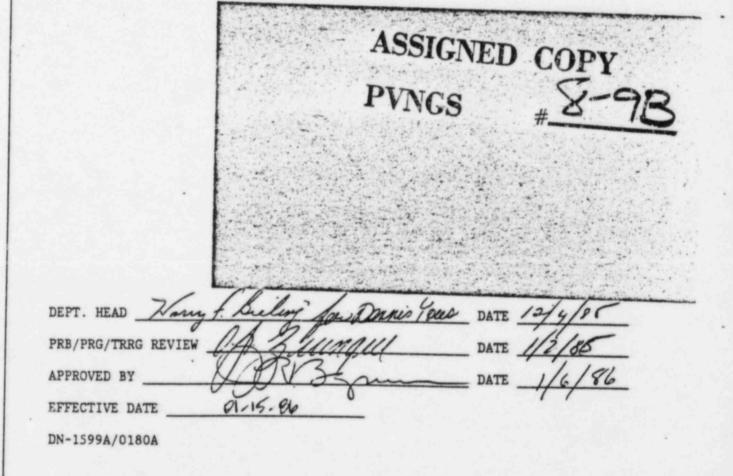
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DEPT. HEAD Warry f. Bu	iling for Dan	is four DATE	12/4/85	
PRB/PRG/TRRG REVIEW	Lungul	DATE	1/2/85	_
APPROVED BY	Dr 35m	DATE .	1/6/80	-
EFFECTIVE DATE 01-1	5.80 0		//	
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		REVISION	HISTORY			
Rev. No.	Date	Revised Pag	es		Comments	
5	2-28-85	A11	Revi	sed Pr	rocedure and	
			Арре	ndicie	s; added steps to	
			clar	ify pr	ocedure and added	
	<u> </u>		appe	ndix t	o provide NAN	
			back	up ins	tructions	
6	05-10-85	10, 11 and	17 Inco	rporat	ed PCN #01 of Rev	
			<u>5 an</u>	d adde	d step for	
			canc	ellati	on of emergency	
			with group page.		page.	
7	06-19-85	3, 5, 7, 8,	Adda	Added termination messag		
		9, 10, 13,	form			
		14, 17, 18,	Capi	talize	d announcements to	
		19, 20, 22,	make easy to inde		to indentify;	
<u> </u>		24, 25, & 2	7 Adde	d step	o for announcement	
			if accountability		ability is	
			performe	ormed;	; Changed and	
			upda	ted al	1 referrals to	
-			vari	ous ap	pendices. Also	
			adde	d note	to provide	
			guid	ance of	n notifications.	
			Adde	d info	rmation on 15	
		-	minu	te tim	e requirement.	

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ALERT	ALERT IMPLEMENTING ACTIONS			MENTING ACTIONS 9 Page 3 of 3		
		REVISION HI	STORY			
Rev. No.	Date	Revised Pages			Comments	
8	09-10-85	4,6,9,11,12,	Rev	ised to	add new plan #'	
		13,14,21,22,	STS	C Commu	micate checklist	
		26,27,29,30,	and	specif	fic instructions	
		33, 34, 36, 37,	for	announ	cements	
·		38				
9	01-15-190	4,9,10,11,13,0	1, <u>Inc</u>	orporat	ed PCN #1 and 2	
		14,15,16,18,	of	Rev. 8,	deleted	
		19,26,27,28,	tim	e/initi	als column in	
		29,30,31,32,	App	endices	I and J.	
-		33,34,35,36,				
		37,38				
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2.0	REFERENCES		5
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4.0	DETAILED PROCEDURE		6
	4.1 Personnel Indoctrination/Respon4.2 Prerequisites	sibilities	6
	4.2 Prerequisites 4.3 Instructions		7

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	B C D E F G H I	B - D - E - F - G - H I -	 A - Emergency Notification Call List - Emergency Coordinator/STSC Communicator B - Emergency Notification Call List - PVNGS Security C - Initial Emergency Message Form D - Followup Emergency Message Form E - Emergency Termination Message Form F - Instructions for Completing Appendix C, D or E G - Notification Alert Network (NAN) Radio Backup H - Protective Action Recommendations I - Emergency Coordinator Response J - STSC Communicator Response

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	ERGENCY PLAN	PROCEDURE NO. EPIP-04	
ALERT IMP	LEMENTING ACTIONS	REVISION 9	Page 5 of 38
1.0 OBJECTI	VE		
1.1 This taken	procedure provides a seri upon declaration of an A	es of implementing LERT.	actions to be
2.0 <u>REFEREN</u>	CES		
2.1 Imple	menting References		
2.1.1 E	PIP-02, "Emergency Classi	fication"	
2.1.2 E	PIP-11, "Technical Suppor	t Center/Satellite	TSC Activation"
2.1.3 E	PIP-12, "Operations Suppo	ort Center Activatio	m"
2.1.4 E	PIP-13, "Emergency Operat	ions Facility Activ	vation"
	EPIP-14A, "Release Rate Determination"		
2.1.6 E	PIP-14B, "Initial Dose As	sessment"	
2.1.7 E	PIP-15, "Protective Actio	n Guidelines"	
2.1.8 E	PIP-16, "Inplant Surveys	and Sampling"	
2.1.9 E	PIP-17, "Onsite/Offsite S	urveys and Sampling	
2.1.10 E	PIP-18, "Emergency Exposu	re Guidelines"	
2.1.11 E	PIP-19, "Onsite Evacuatio	n"	
2.1.12 E	PIP-20, "Personnel Assemb	ly and Accountabili	ty"
	PIP-21, "Search and Rescu		
2.1.14 E	PIP-22, "Personnel Injury		
2.1.15 E	PIP-23, "Fire Fighting"		
2.1.16 E	PIP-24, "Security"		
2.1.17 E	PIP-25, "Reentry for Reco	very Operations"	
	PIP-26, "Potassium Iodide		."

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

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

4.2 Prerequisites

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- 4.2.1 The emergency has been classified per EPIP-02, "Emergency Classification."
- 4.3 Instructions
 - 4.3.1 The affected unit Shift Supervisor shall perform the following:

NOTE

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

Affected	Unit	Unaffected	Unit SI	hift	Supervisor
Unit 1			Unit		
Unit 2			Unit	1	
Unit 3			Unit	2	
Entire	Site		Unit.	1	

4.3.1.1

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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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ALERT IMPLEMENTING ACTIONS	REVISION	Page 8 of 38

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

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.

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a da Cal	ALERT IMPL	EMENTING ACTIONS	. 9	Page 9 of 38
			NOTE	
		be performed if Shift Supervisor and safety of st decision is made assembly/account 4.3.1.4 and 4.3. step 4.3.1.4 and	ountability should deemed necessary by to maximize the he ation personnel. If to perform ability, skip steps 1.5. If not, perfor 4.3.1.5 and skip s and 4.3.1.8 and 4.	y the ealth If the sorm steps
			TABILITY NOT PERFOR	
	4.3.1.4	Ensure the following wide telephone page	announcement is mad	ie over the plant
		CLASSIFIED AS AN ALER AFFECTED UNIT EMERGEN REPORT TO YOUR EMERGEN STANDBY UNITL FURTHER route(s) or area(s) to the announcement.)	CY RESPONSE PERSONN NCY LOCATION. ALL NOTICE. (Provide	OTHER PERSONNEL instructions on
	4.3.1.5	Ensure the announcement the site warning sires	nt in step 4.3.1.4 n/public address sy	is repeated over stem.
	4.3.1.6	ACCOUN Ensure the accountabil approximately one (1)	TABILITY PERFORMED lity signal is soun minute to alert pe	nded for ersonnel.
Ľ	4.3.1.7	Ensure the following wide telephone page	announcement is mad	e over the plant
		"ATTENTION ALL PLANT I CLASSIFIED AS AN ALER AFFECTED UNIT EMERGEN REPORT TO YOUR EMERGEN REPORT TO YOUR ASSIGNT instructions on route appropriate.)	T EXISTS IN UNIT TY RESPONSE PERSONN NCY LOCATION. ALL ED ASSEMBLY AREA."	. ALL TEL AND ALTERNATES OTHER PERSONNEL (Provide
	4.3.1.8	Ensure the announcement the Site Warning Sires	nt in step 4.3.1.7 n/Public Address Sy	is repeated over stem.
	4.3.1.9	Ensure the accountabil announcement in steps	lity signal is reso 4.3.1.7 and 4.3.1	ounded and the

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-04	
ALERT IMPLE	MENTING ACTIONS	REVISION 9	Page 10 of 38
4.3.1.10	Ensure that the actio procedures have been	ns of the appropria implemented.	te Recovery
4.3.2 The fol	Emergency Coordinator lowing:	/Shift Supervisor s	hall perform the
4.3.2.1	Ensure activation of EPIP-11, "Technical S Activation."	the Satellite TSC i upport Center/Satel	n accordance with lite TSC
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 Commun Engineer) to prepare a Message Form" in accom Appendix F.	Appendix D. "Follow	up Emergency
4.3.2.5	Determine the need for is necessary, direct a required agency per El	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 was ALERT, proceed to apprinotification procedure to announce the reclass system and inform the	copriate implementi as and direct the S ssification over th	ng and hift Supervisor e public address
4.3.2.8	Provide overall direct emergency response as Coordinator Response.	tion and control of per Appendix I - E	the <u>ONSHIFT</u> mergency
Coo or 1 App Sec	GS Security, after bein rdinator or STSC Commun has occurred, or has be endix B, "Emergency Not urity," and notify the mation.	aicator that an ale en terminated, sha ification Call Lis	rt is in progress 11 complete t - PVNGS

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	
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4.3.4 Operations Support Center (OSC) Activation

- 4.3.4.1 The OSC Coordinator shall implement EPIP-12, "Operations Support Center Activation."
- 4.3.5 Emergency Operations Facility (EOF) Activation
 - 4.3.5.1 The Emergency Operations Director shall implement EPIP-13, "Emergency Operations Facility Activation."
- 4.3.6 Emergency Situation Terminated

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NOTE

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

4.3.6.1 The Shift Supervisor (or Emergency Coordinator) shall ensure the All Clear signal is sounded for approximately (1) minute and that the following announcement is made over the plant wide telephone page

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

- 4.3.6.2 Ensure the announcement in step 4.3.6.1 is repeated over the Site Warning Siren/Public Address System.
- 4.3.6.3 Ensure steps 4.3.6.1 and 4.3.6.2 are repeated once.
- 4.3.6.4 Direct the STSC Communicator (or Government Liaison Engineer) to fill out Appendix E, "Emergency Termination Message Form," per instructions provided in Appendix F.
- 4.3.6.5 Direct the STSC Communicator (or Government Liaison Engineer) to transmit the termination per Appendix A.
- 4.3.6.6 At closeout or reduction of the ALERT classification, the S.S./E.C. shall notify the PVNGS Compliance Dept. at ext. For beeper or provided to offsite authorities within written summary be provided to offsite authorities within eight (8) hours. S.S./E.C. shall provide copies of shift logs, control room logs, etc., as requested by Compliance for preparation of the report.

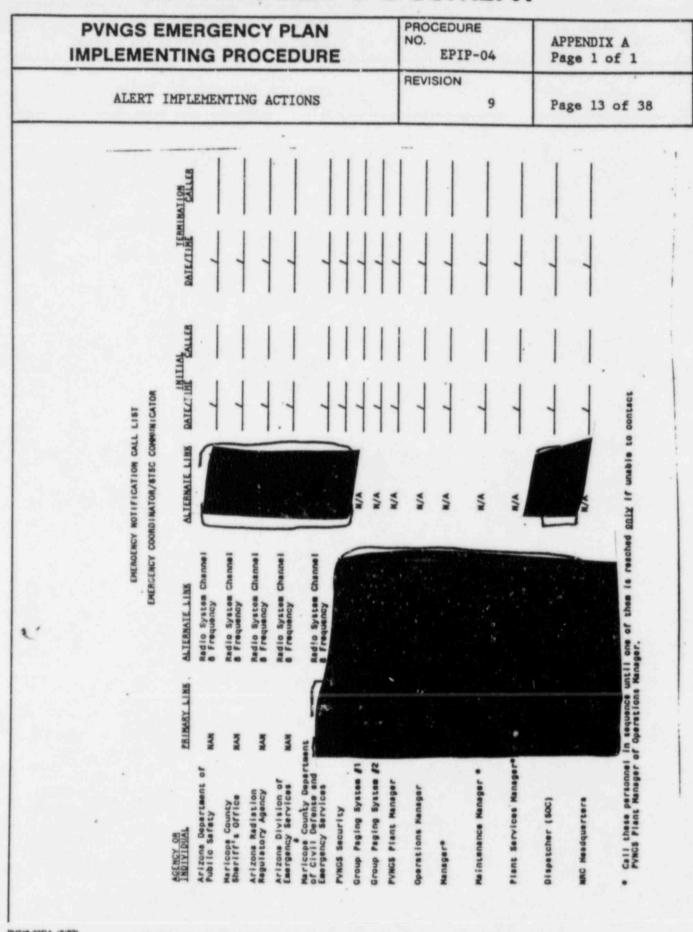
PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	
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4.3.7 Record Retention

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

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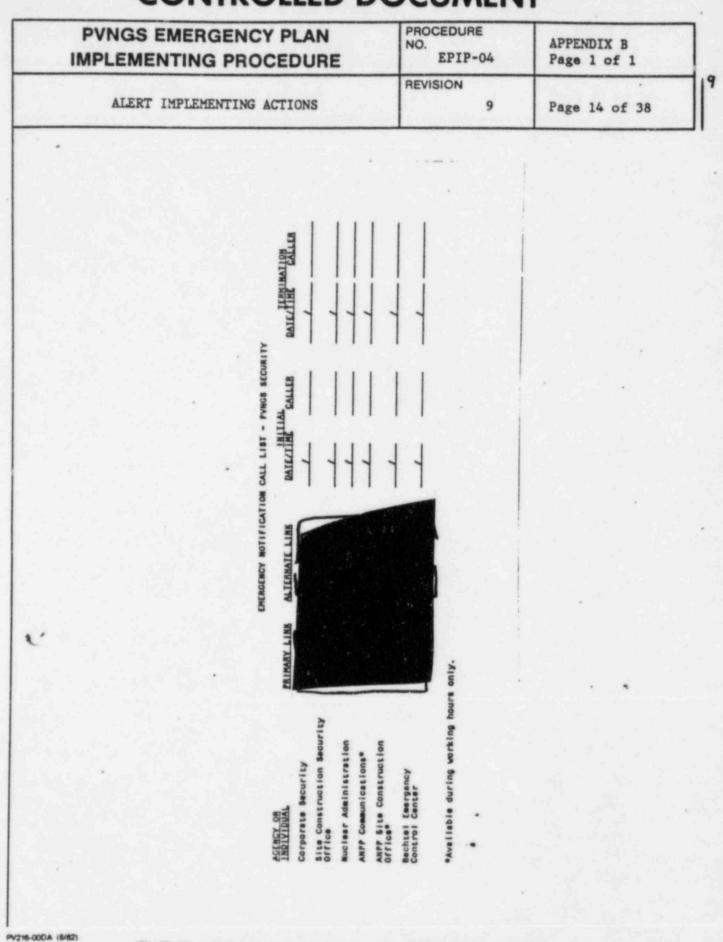
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			ERGENCY PLAN	PROCEDURE NO. EPIP-	A	PPENDIX C age 1 of 1
	A	LERT IM	PLEMENTING ACTIONS	REVISION	9 P	age 15 of 38
				GENCY MESSAGE FO OF UNUSUAL EVEN GENCY, OR GENERA	Т,	Y
1. dec	<u>I</u> lared	<u>S PALO V</u> ALERT) (at (tim	(date) - Wind is	NG STATION (NOTI	FICATION O CY) tion)	F UNUSUAL EVEN
	PALO	VERDE A	UTHENTICATOR(author	anticator letter	s)	
2.	This Stat	is ion Unit	. (name/title)	, at the Palo Ve	rde Nuclea:	r Generating
3.	(Cir	cle One)				
	(a)	There i special	s <u>NO</u> , repeat <u>NO</u> , radio protective actions an	oactive release e recommended a OR	taking plac t this time	ce and no
	(b)		s <u>NO</u> , repeat <u>NO</u> , radio ng limits and <u>NO</u> prote	active release	in excess o re recommen	of allowable ided at this t
	(c)	There i time.	s <u>NO</u> , repeat <u>NO</u> , radio However, the following Sectors	active release ; protective act	taking plac ions are re ance (Miles	commended.
				OR		_
	(d)	A radio people	active release <u>IS</u> , rep in affected sectors re Sectors	main indoors with	place. We th windows ance (Miles	and doors clo
				UR		_
	(6)	A radio evacuat	active release <u>IS</u> , rep ion of affected sector Sectors	eat IS, taking p s be considered	olace. We ance (Miles	
	THIS	IS (IS	NOT) A DRILL (Circle O	ne)		
4.						•
4.						
4.	Appro		/EC/EOD)	Dat	e	Time

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IM	VNGS EMERGENCY PLAN PLEMENTING PROCEDUR	I NO.		APPENDIX D Page 1 of 3
	ALERT IMPLEMENTING ACTIONS	REVISION	9	Page 16 of 38
	FOLLOW-UP E	MERGENCY MESSAGE	FORM	
1.		ING STATION follo OF UNUSUAL EVEN Y) plicable classif	ow-up inf T) (ALERT	ormation message
	declared at			
2.	(time) (o This is Unit (name/title)		Nuclear G	enerating Statio
3.	Brief description of event			
4.	Meteorological Data			
	a. Wind direction from (direction from (direction))	(degrees) (degrees)	- at (spe	
	from to	(sector)		
	b. Stability Class: A B C	(sector) DEFG ale One)		
	 b. Stability Class: A B C (Circ c. Precipitation Yes 	DEFG		
	 b. Stability Class: A B C (Circ c. Precipitation Yes 	DEFG le One) No		

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	NGS 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		* 2. alien
	a. I-131 Equivalent (Ci/second	
	D. NODIE Gas	Ci/second	
	c. Particulates (Ci/second	
7.	Two-hour plure centerline projected	dose at:	
	Distance Sector Whole Body	Child Thyroid	
		Dose Commitment	
		(REM)	
	Site	1.10	
	Site Boundary	1 N N	
	Boundary		
	Boundary		
	Boundary 2 miles		
	Boundary		
	Boundary 2 miles		
	Boundary 2 miles		
	Boundary 2 miles		
A.	Boundary 2 miles 5 miles 10 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: 2 mi 5 mi		
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: 2 mi5 mi10 mi		

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	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.	We Request the Following Onsite St Sources:	upport and Assistan	ice from Offsite
	We Request the Following Onsite St Sources: Our Prognosis of the Emergency is		ice from Offsite
	Sources:	that Conditions:	
13.	Our Prognosis of the Emergency is Are Under Control Can be Expected to Terminat Are Worsening Other Information:	that Conditions: te Withinhour	
13.	Our Prognosis of the Emergency is Are Under Control Can be Expected to Terminat Are Worsening Other Information: a) Power Prior to Event (%)	that Conditions: te Withinhour	
13.	Sources: Our Prognosis of the Emergency is Are Under Control Can be Expected to Terminate Are Worsening Other Information: a) Power Prior to Event (%) b) Current Power or Mode	that Conditions:	
13.	Our Prognosis of the Emergency is Are Under Control Can be Expected to Terminat Are Worsening Other Information: a) Power Prior to Event (%)	that Conditions: te Withinhour	

	NGS EMERGENCY PLAN	PROCEDURE NO. EPIP-C4	APPENDIX E Page 1 of 1
	ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 19 of 38
	EMERGENCY TERMINATIO	N MESSAGE FORM	
1.	Verbatim text of message: THIS THIS IS PALO VERDE NUCLEAR GENER UNUSUAL EVENT) (ALERT) (SITE ARE)	ATING STATION. THE	(NOTIFICATION OF

(circle approprite classification) DECLARED AT ______ HAS BEEN TERMINATED AT (Time) (Date)

(Time) (Date)

This is	is			at	Palo
		(Name)	(Title)		

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Verde Nuclear Generating Station Unit ____.

3. PALO VERDE AUTHENTICATOR

(Authenticator Letters)

Approved:

2.

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(SS/EC/EOD)

Date/Time

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-04	APPENDIX F Page 1 of 3
AI	LERT IMPLEMENTING ACTIONS	REVISION 9	Page 20 of 38
	INSTRUCTIONS FOR COMPLET	ING APPENDIX C, D (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 outside sequence number (if it is a di	ain Authenticator f e with the appropri	rom the confidentia
1.2	Obtain from the Radiation Prot Radiological Assessment Coord required to complete Step 3 of	inator (if EOF is a	shift) or the octivated) data
1.3	Circle appropriate wording of	Step 4 of Appendix	c.
	NOTT	<u>.</u>	
	When the NAN ring button appears that all the rece line or the ring has stop originating station shall in order listed below. (day)	eiving stations are oped, the PVNGS l initiate a roll c	a11
	NOTE	5	
	If the NAN dedicated tele Appendix G, "Notification Radio Backup," for instru 8, KON-511, for notificat	Alert Network (NA Actions on using ch	N)
1.4	By means of a single call on t dedicated telephone, contact t listed in Appendix A.	the Notification an the following State	d Alert Net /County agencies
	Duty Hours (8:00 a.m. to 5:00	p.m. Monday-Friday)
	Maricopa County Sheriff's Offi Maricopa County Department of Arizona Department of Public S Arizona Division of Emergency	Civil Defense and Safety	Emergency Services

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	S EMERGENCY PLAN	PROCEDURE NO. EPIP-04	APPENDIX F Page 2 of 3
AL	ERT IMPLEMENTING ACTIONS	REVISION 9	Page 21 of 38
	Off-Duty Hours (5:00 p.m. to day Saturday,	8:00 a.m., Monday-1 Sunday and Holiday	Friday, all ys)
	Maricopa County Sheriff's Off Department of Public Safety	lice	
1.5	In the event that an offsite not answer the NAN phone or N or actual emergency, the nucl shall notify the agency via r in Appendix A).	AN backup radio dur ear operator (or ST	ring a test, dril: (SC Communicator)
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 an appropriate
1.7	When each individial has obta Emergency Message Form verbat verbatim. Perform warning po	im and request MCSC	the completed . to read back
1.8	Offer to repeat information a	nd reiterate as nec	essary.
	NOT	E	
	To verify the group page pager installed in the ST much as two (2) minutes m and the broadcast announc	SC. Be aware that ay lapse between di	as
1.9	Notify additional personnel a and inform them of the situat for both Group Paging Systems	ion. Provide the f	ollowing message
	"THIS IS PVNGS, UNIT , PLEASE RESPOND APPROPRIATE once).	CLASSIFICATION TWO LY." (Repeat messa), Ige
1.10	If an individual requests inf Emergency Message Form, make give the information only aft been made.	reasonable efforts	to obtain and
1.11	Contact the NRC via the Emerg dedicated telephone within 60 If the ENS fails, use the com alternate line.	minutes of declari	ng an emergency.
1.12	When contact is made, the cal the completed Emergency Messa Verde Authenticator).	ler shall identify ge Form verbatim (o	himself and read mit the Palo

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	GS EMERGENCY PLAN MENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX F Page 3 of 3
AL	ERT IMPLEMENTING ACTIONS	REVISION	Page 22 of 3
1.13	Offer to repeat information an	nd reiterate as neo	cessary.
2.0	Follow-up Emergency Message Form	(Appendix D)	
2.1	Fill in data required by Steps Emergency Message Form."	s 1-3 of Appendix I), "Follow-up
	NOT	1	
• •	If the emergency is non-r steps 4-9 may be deleted.	adiological in nat	ure,
2.2	Obtain the Radiation Protectic Assessment Coordinator (if EOR complete Steps 4-9.	on Monitor or the F 'is activated) dat	Radiological a required to
2.3	Obtain the Emergency Coordinat Coordinator (if EOF is activat 10-14.	or or the Technica ed) data required	al Analysis to complete Ste
2.4	Circle appropriate wording in	Step 15.	
2.5	Dispense information when aske	d by offsite Agenc	ies (NRC or ARE
3.0 1	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 a pager installed in the STS much as two (2) minutes ma and the broadcast announce	C. Be aware that y lapse between di	as
3.4	When using the Group Paging Sy termination, use the following	stems to announce message:	event
	"THIS IS PVNGS, UNIT PLEASE CANCEL RESPONSE TO	, EMERGENCY TERMIN	ATED.

	S EMERGENCY PLAN MENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX G Page 1 of 2
AI	ERT IMPLEMENTING ACTIONS	REVISION . 9	Page 23 of 38
	NOTIFICATION ALERT NET Channel	IWORK (NAN) RADIO BACK 8 - KON511	υP
on the Pyng	failure of the NAN ringdown S radio. FCC regulations re precede and conclude all out	equire the Palo Verde I	ckup is Channel 8 Designator 'KON511
(R 5-	ke control of the radio char epeat) "All stations this ne 1-1 Palo Verde to all 5-1-1 11 call."	et, this is K-O-N 5-1-1	Palo Verde.
2. Wa ra	it thirty seconds to allow t dios, then repeat the previo	the offsite agencies to ous transmission.	get to their
	N	IOTE.	1.
3. Init stat	on holidays, Maricopa ((MCSO) and Department of be the only agencies re iate roll call of the offsit ions on the net to respond.	of Public Safety (DPS) esponding.	will
3.1	"5-1-1 Palo Verde to 5-1-1 you copy?" Allow Response: "5-1-1 MC		ff's Office. Do
3.2	"5-1-1 Palo Verde to 5-1-1 Defense & Emergency Servic Allow response: "5-1-1 Ci	es. Do vou copv?" (M	tment of Civil CDCD&ES)
3.3	"5-1-1 Palo Verde to 5-1-1 copy?" Allow response: "5-1-1 DP		Safety. Do you
3.4	"5-1-1 Palo Verde to 5-1-1 Services. Do you copy?" Allow response: "5-1-1 AD		
3.5	"5-1-1 Palo Verde to 5-1-1 Do you copy?"		

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ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 24 of 38

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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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX H Page 1 of 1	
ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 25 of 38	

PROTECTIVE ACTION RECOMMENDATIONS

Classification	Protective Actions
Category	Recommendations

Alertany releases are erpected 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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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX I Page 1 of 11	
ALERT IMPLEMENTING ACTIONS -	REVISION 9	Page 26 of 38	

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

INITIAL RESPONSE

- 1. Receive notification from the Shift Supervisor and report to the Control Room of 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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	ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 27 of 38
		DINATOR RESPONSE	
4.	Assume position of the onshift Em	ergency Coordinator.	
5.	Activate the Satellite STSC per E Center/Satellite TSC Activation."	PIP-11, "Technical Su	pport
6.	Commence notification process per Communicator to do so.	Appendix F <u>or</u> direct	the STSC
	(1) Direct the Security Director offsite Emergency Organization	to call in the PVNGS on personnel.	onsite and
7.	Provide plant wide public address	announcement when the	e STSC is activated
8.	Verify personnel resources are on	standby in the OSC.	
9.	Reevaluate the emergency classific "Emergency Classification," reclassification	cation as conditions of ssify us necessary.	change per EPIP-02
10.	As necessary, direct implementation EPIP-22, "Personnel Injury."	on of EPIP-23, "Fire 1	Fighting" and
	 For a fire, dispatch the Fire contact the Bechtel or altern assistance (if required). 	e Team and order the S nate offsite fire depa	Security Director to artment for
	(2) For personnel injury, contact of the situation. Dispatch a coordinate any required offs:	a First Aid Team, if n	on and inform them necessary, and
11.	Determine any additional protective to state and county response agence Guidelines."	ve action recommendat; cies per EPIP-15, "Pro	ions to be provided ptective Action
12.	As appropriate, complete Follow-up	p Emergency Message Fo	orm.
13.	Determine the need for offsite sup call location(s) in EPIP-33, "Offs the Security Director per EPIP-24	site Assitance" and an	STSC Communicator to rrange access with

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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

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- 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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ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 29 of 38	19

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 PVNGS Compliance at a

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or beeper to provide written summary within 8 hours to offsite authorities. Provide documentation as requested.

1	PVNGS EMERGENCY PLAN MPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-04	APPENDIX I Page 5 of 11
	ALERT IMPLEMENTING ACTIONS	REVISION 9	Page 30 of 38
	EMERGENCY COORDIN TSC ACTIV	the second s	
INIT	AL RESPONSE		
1.	Receive notification from the <u>onshif</u> TSC. Upon arrival, sign in on the T	t Emergency Coordin SC Staffing Board.	ator and report to
2.	Receive a briefing from the <u>onshift</u> responsibilities.	Emergency Coordinat	or and assume
3.	Brief TSC staff and evalute adequacy	of TSC activation.	
4.	Declare the TSC operational and info ANPP Site Construction Office, Becht Security via a site wide public addr may be delegated to the Information	el Emergency Contro ess announcement.	1 Center and PVNGS
5.	As necessary, continue with or comments F or direct STSC Communicator to do	nce notification pr so.	ocess per Appendix
6.	Verify personnel resources are on st	andby in the OSC.	
SUBSE	QUENT RESPONSE		
7.	Reevaluate the emergency classificat "Emergency Classification," reclassi	ions conditions cha fy as necessary.	nge per EPIP-02,
8.	As necessary, direct implementaion of EPIP-22, "Personnel Injury."	f EPIP-23, "Fire Fi	ghting" and
	 For a fire, dispatch Fire Team a contact the Bechtel or alternate assistance (if required). 	and order the Secur e offsite fire depa	ity Director to rtment for
	(2) For pesonnel injury, contact the		and inform them of

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. APPENDIX I EPIP-04 Page 6 of 11		
	REVISION		
ALERT IMPLEMENTING ACTIONS	9	Page 31 of 38	
EMERGENCY COORDINA TSC ACTIVA			
 Determine any additional protective a to state and county response agencies Guidelines." 	action recommendations per EPIP-15, "Pro	ions to be provide stective Action	
10. As appropriate, complete Follow-up En	nergency Message Fo	rm.	
 Determine the need for offsite suppor locations(s) in EPIP-33, "Offsite Ass Security Director per EPIP-24, "Security 	sistance" and arran	municator to call age access with th	
	and Accountabilit		
12. Within 30 minutes of the accountability accountability in the protected area	ity signal, receive from the Security	a report on Director.	
 Be prepared to implement EPIP-21, "Se necessary data to the OSC Coordinator Coordinator). 	earch and Resue," b (via Emergency Ma	y provicing intenance	
14. Receive report on site area accountab	oility.		
Emergency Exposure	s and KI		
 Per EPIP-18, "Emergency Exposure Guid emergency exposures. 	lelines" and as nec	cessary, authoriz	
16. As necessary, authorize administratio workers desiring to use it. Consult Coordinator.	on of KI per EPIP-2 with the Radiologi	6 to emergency cal Protection	
OSC Activation			
17. If a release is occuring, consult App Support Center Activation" to determine	endix B of EPIP-12 ne habitability of	, "Operations 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."

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

Protective Actions

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

Recovery

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

Event Termination or Reduction

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

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EMERGENCY COORDIN TSC AND EOF A	the second se	1

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.
- 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

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- 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.

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EMERGENCY COORDINATOR RESPONSE TSC AND EOF ACTIVATED

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

> Personnel Assembly and Accountability (If Assembly/Accountability Performed)

- 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 Rescue," by providing necessary data to the OSC Coordinator (via Emergency Maintenance Coordinator).
- 12. Receive report on site area accountability

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Emergency Exposures and KI

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

OSC Activation

- 15. If a release is 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 Coordator 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 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."

Event Termination or Reduction

23.	Contact	PVNGS	Compliance	a at e	xt.			100		or	
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	authorit	ties.	Provide de	ocumen	tation	as r	equeste	d.			

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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

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STSC Activation

1. Report to the STSC upon notification.

Notification of ALERT, SITE AREA EMERGENCY, GENERAL EMERGENCY

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

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Notification of ALERT, SITE AREA EMERGENCY, GENERAL EMERGENCY

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

Offsite Assistance

- 9. Contact required offsite 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.

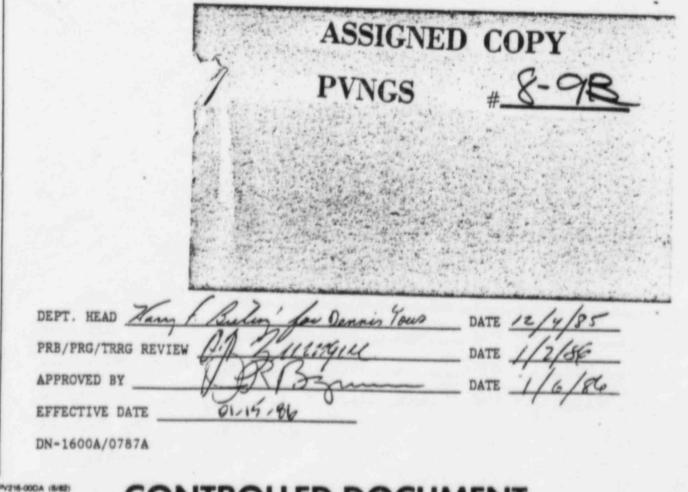
ACTIVATION OF ONSITE EMERGENCY ORGAN ZATION

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

*Continuing Activity.

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		REVISION HI	STORY		
Rev. No.	Date	Revised Pages		Comments	
5	3/4/85	a11	Revised ca	llouts and	
	_		announceme	nts. Added NAN	
			Backup ins	truction Appendix	
			Added emer	sency coordinator	
			checklists		
6	4/9/85	App. A & B	Revised to	incorporate PCN	
			#01 of Rev	. 5. PCN	
			corrected	phone #s in App.	
· · · · · · · · · · · · · · · · · · ·	-		A & B.		
7	01.15.86	3, 7, 8, 9,	Added term	ination message	
		10, 11, 13,	form and in	nstructions. Adde	
	-	14, 17, 18,	note to pro	ovide guidance	
	-	19, 20, 22,	on notific	ations. Changed	
		24, 25 and 28	sequence of	f notifications in	
	-		App. A. U	pdated references	
			to all app	andices. Capital	
			announcemen	nts to make easie	
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Rev. No.	Date	Revised Pages		Comments
8	09/10/85	4, 6, 9, 10,	Incorpor	ated PCN #1 of
		11, 12, 13,	Rev. 7.	Added new phone #'
		20, 21, 25,	STSC Com	municator checklist
		26, 30, 33,	and spec	ific instructions
		34, 37, 38,	for anno	uncements.
		39		
	-		-	
9	-	4, 8, 9, 10,	Incorpor	ated PCN #1 and 2 o
		11, 12, 13,	Rev. 8.	Deleted
	-	14. 15, 17,	Time/Ini	tials column in
		18, 25, 26,	Appendic	es I and J.
		27, 28, 29,		
		30, 31, 32,		
		33, 34, 35,		
		36, 37, 38,		
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2.0 REFERENCES		5	
3.0 LIMITATIONS AND PRECAUTIONS		6	
4.0 DETAILED PROCEDURE		6	
 4.1 Personnel Indoctrination/Respons 4.2 Prerequisites 4.3 Instructions 	sibilities	6 7 7	
APPENDICE	1		
Appendix A - Emergency Notification Call L Coordinator/STSC Communicator	ist - Emergency	12	
Appendix B - Emergency Notification Call L Security	ist - PVNGS	13	
Appendix C - Initial Emergency Message Form		14	
Appendix D - Follow-up Emergency Message Fo	orm .	15	
Appendix E - Emergency Termination Message	Form	18	
Appendix F - Instructions For Completing Ap	opendix C or D	19	
Appendix G - Notification Alert Network (NA	N) Radio Backup	22	
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Appendix J - STSC Communicator Response

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1.0 OBJECTIVE

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 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 ZPIP-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, "Implant 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 (RI) Administration"
 - 2.1.19 EPIP-31, "Recovery"

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- 2.1.20 EPIP-33, "Offsite Assistance"
- 2.1.21 71AC-9ZZ01, "Event Related Reporting"
- 2.1.22 9N219.05.00, "Documentation/Record Turnover Control"
- 2.2 Developmental References
 - 2.2.1 NUREG-0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
 - 2.2.2 PVNGS Emergency Plan, Rev. 6

3.0 LIMITATIONS AND PRECAUTIONS

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

4.0 DETAILED PROCEDURE

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

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4.2.1	The emergency has been cl.	assified per EPIP-(02, "Emergency
4.2.1 4.3 Inst 4.3.1	The emergency has been classification."		

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 Sh	ift	Supervisor
Unit 1			Unit		
Unit 2			Unit	: 1	
Unit 3			Unit	: 2	
Entire	Site		Unit	: 1	

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

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NOTE

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

NOTE

If the emergency situation is terminated before initial notifications are finished, complete the notifications per Appendix A. Then 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.
- 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	EMERGENCY SITUATION AREA EMERGENCY EX ASSEMBLY AND ACCOUNT PROGRESS. ALL AF RESPONSE PERSONNE YOUR EMERGENCY LOUP PERSONNEL REPORT	wide telephone part ANT PERSONNEL, AN ON CLASSIFIED AS A ISTS IN UNIT UNTABILITY ARE NOW FECTED UNIT EMERGE L AND ALTERNATES F CATION. ALL OTHER TO YOUR ASSIGNED A instructions on re	A SITE IN ENCY EPORT TO ASSEMBLY
	4.3.1.6	Ensure the announcemen the Site Warning Siren	t in step 4.3.1.5 /Public Address Sy	is repeated over stem.
	4.3.1.7	Ensure the accountabil announcement in steps	ity signal is reso 4.3.1.5 and 4.3.1.	ounded and the 6 is repeated.
	4.3.1.8	Ensure that actions of procedures have been in	the appropriate mplemented.	recovery
	4.3.2 The	Emergency Coordinator	shall perform the	following:
	4.3.2.1	Ensure activation of t EPIP-11, "Technical Su Activation."	he satellite TSC : pport Center/Sate	in accordance with llite TSC
	4.3.2.2	Following accountabili initiate EPIP-19, "Ons	ty, and if condit: ite Evacuation."	ions warrant,
	4.3.2.3	Implement additional E Procedures according t the emergency being cl	o the situation th	hat resulted in
	4.3.2.4	Direct the Security Di Offsite Emergency Orga appropriate computer c	nization personne.	Onsite and l by utilizing the
	4.3.2.5	Direct the STSC Commun Engineer) to prepare A Message Form" in accor Appendix F.	ppendix D "Follow	Inin Emorgonom

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		RGENCY PLAN	PROCEDURE NO. EPIP-05	
		A EMERGENCY TING ACTIONS	REVISION 9	Page 10 of 39
•	4.3.2.6	Determine the need for is necessary, direct the Administrative and the required agency p	the STSC Communicat d Logistics Coordin	or (onshift) or ator to contact
	4.3.2.7	Reevaluate the emerger licensee actions as co procedure EPIP-02.	ncy classification onditions change by	and perform implementing
	4.3.2.8	When the situation was SITE AREA EMERGENCY, j and notification proc Supervisor to announce public address system	proceed to appropri edures and direct t e the reclassificat	ate implementing the Shift tion over the
	4.3.2.9	Provide overall direc emergency response as Coordinator Response.	per Appendix I - E	the <u>ONSHIFT</u> mergency
	Co is co PV	NGS Security, after bein ordinator or STSC Commu- in progress or has occu mplete Appendix B, "Eme NGS Security," and noti the situation.	nicator that a Site urred, or has been rgency Notification	Area Emergency terminated shall Call List -
	4.3.4 Op	erations Support Center	(OSC) Activation	
	4.3.4.1	The OSC Coordinator s Support Center Activa		-12, "Operations
	4.3.5 Em	ergency Operations Faci	lity (EOF) Activati	on
	4.3.5.1	The Emergency Operati EPIP-13, "Emergency O	ons Director shall perations Facility	implement Activation."
	4.3.6 Em	ergency Situation Termi	nated	
	4.3.6.1	The Shift Supervisor ensure the "All Clear approximately (1) min announcement is made	" signal is sounded ute and that the fo	for blowing
		"ATTENTION ALL P SITUATION DECLAR NOW BEEN TERMINA instructions as	ED IN UNIT HA TED". (Provide spe	S

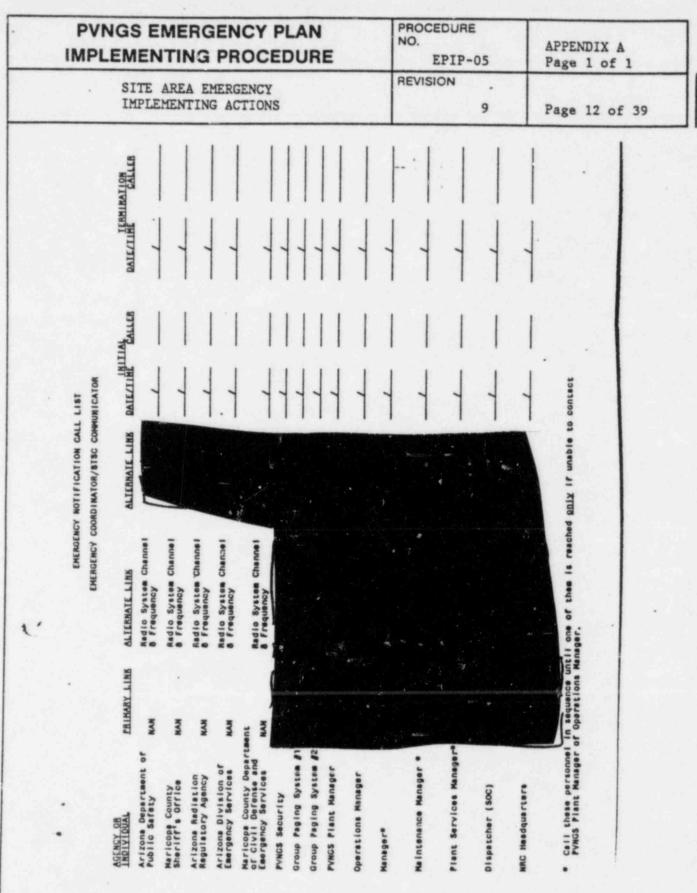
	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE SITE AREA EMERGENCY IMPLEMENTING ACTIONS		
			Page 11 of 39
4.3.6.2	Ensure the announceme the Site Warning Sire	nt in step 4.3.6.1 n/Public Address S	is repeated over ystem.
4.3.6.3	Ensure steps 4.3.6.1	and 4.3.6.2 are rep	peated once.
4.3.6.4	Direct the STSC Commun Engineer) to fill out Message Form," in acc in Appendix F.	Appendix E, "Emer	gency Termination
4.3.6.5	Direct the STSC Commu Engineer) to transmit	nicator (or Govern the termination p	ment Liaison er Appendix A.
4.3.6.6	At closeout or reduct classification, the S Compliance at the to provide authorities within ei provide copies of shi requested by Complian	S./E.C. shall not or beeper no. de a written summa: ght (8) hours. The ft logs, control re	ify PVNGS ry to offsite e S.S./E.C. shall com logs, etc.; as
4.3.7 Re	cord Retention		
4.3.7.1	Appendices A, B, C, D the Emergency Plannin ensure they are forwa accordance with 9N219 Control."	g Dept., mail stat: rded to DDC for pro	ion 6010, to oper storage in
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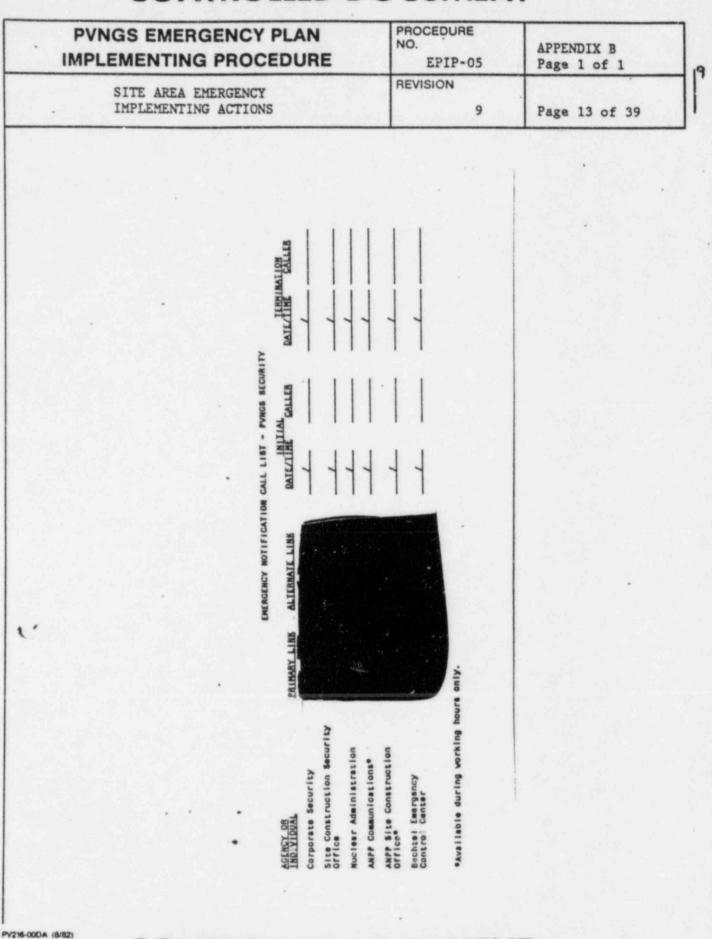
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE			NO.	EPIP-05	APPENDIX C Page 1 of 1	
	SITE AREA EMERGENCY IMPLEMENTING ACTIONS				SION 9.	Page 14 of 39
1.	I	S PALO V		IS IS (IS NO ING STATION (GENERAL EM	AL EVENT, GENERAL EMER (T) A DRILL! (NOTIFICATION ERGENCY)	(Circle One) Th
dec		(tim	(circle app - Wind : (date) - Wind :			At mph. (speed)
				henticator 1	etters)	
2.	Stat:	is	(name/title)	at the Palc	Verde Nucle	ear Generating
з.	(Cir	cle One)				
	(a)	There i protect	s <u>NO</u> , repeat <u>NO</u> , rad: rive actions are record	ioactive rel mmended at t OR	ease taking his time.	place and no spe
	(b)	There i operati	s <u>NO</u> , repeat <u>NO</u> , rad: ng limits and <u>NO</u> prot	ioactive rel	ease in exce on recommend	ess of allowable ations at this t
	(c)	There i However	s <u>NO</u> , repeat <u>NO</u> , rad: , the following prote Sectors	ioactive rel	ns are recom	mended.
	(d)	A radio people	active release <u>IS</u> , re in affected sectors : Sectors	OR apeat <u>IS</u> , ta remain indoo	king place. Frs with wind Distance (M	lows and doors cl
				OR		
	(e)	A radio evacuat	active release <u>IS</u> , re ion of affected sector Sectors	epeat IS, ta	king place. dered. Distance (N	
4.	7470	15 (15				
•.	INIS	19 (13	NOT) A DRILL!! (Circ)	le Une)		
	Appro	oved	S/EC/EOD)			
		18	S/ 51. / 51.011		Date	Time

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	PVNGS EMERGENCY PLAN	NO.	CEDURE EPIP-05	APPENDIX D Page 1 of 3
	SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REV	SION 9	Page 15 of 3
1.	Verbatim text of Message: T THIS IS A PALO VERDE NUCLEAR message concerning the (NOT) AREA EMERGENCY) (GENERAL EME	R GENERATING S IFICATION OF U RGENCY) oplicable class	T) A DRILL TATION fol: NUSUAL EVEN	low-up informati NT) (ALERT) (SIT
	(time) (
2.	This is(name/title) Unit	, at Palo Ver	de Nuclear	Generating Stat
3.	Brief description of event			
4.	Meteorological Data			
	Meteorological Data a. Wind direction from			miles per ho peed)
	Meteorological Data a. Wind direction from	(degree		
	Meteorological Data a. Wind direction from (direction from) fromto (sector) b. Stability Class: A B C	(degree ection) (sector)		
	Meteorological Data a. Wind direction from (direction from) (direction) b. Stability Class: A B C (Cirection) c. Precipitation Yes	(degree ection) (sector) C D E F G		
4.	Meteorological Data a. Wind direction from (direction from) (direction) b. Stability Class: A B C (Cirection) c. Precipitation Yes	(degree ection) (sector) C D E F G ccle One) No		
4.	Meteorological Data a. Wind direction from(direction from(direction from))))))))))))))))))))))))))))	(degree ection) (sector) C D E F G ccle One) No cle One)		
4.	Meteorological Data a. Wind direction from (direction from (direction from (direction))) b. Stability Class: A B C (Circon)) b. Stability Class: A B C (Circon)) c. Precipitation Yes (Circon) Radiological Data	(degree ection) (sector) C D E F G ccle One) No cle One)		miles per ho

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	PVNGS EMERGENCY PLAN PROCEDURE NO. APPENDI PLEMENTING PROCEDURE EPIP-05 Page 2	
	SITE AREA EMERGENCY IMPLEMENTING ACTIONS 9 Page 16	
5.	. b. Release Time	
	c. Reactor Trip Time	
	d. Location/Source of Release	
6.	. Current Release Rates	
	a. I-131 Equivalent Ci/second	
	b. Noble Gas Ci/second c. Particulates Ci/second	
	c. Particulates Ci/second	
7.	. Two-hour plume centerline projected dose at:	
	Distance Sector Whole Body Child Thyroid Dose (REM) Dose Commitment (REM)	
	Boundary	
	Boundary 2 miles	
	2 miles	
	2 miles	
8.	2 miles 6 miles	
8.	2 miles 6 miles 10 miles Plume arrival time offsite:	
8.	2 miles 6 miles 10 miles Plume arrival time offsite: 2 mi	
8.	2 miles 6 miles 10 miles Plume arrival time offsite: 2 mi 5 mi 10 mi	
8.	2 miles 6 miles 10 miles Plume arrival time offsite:2 mi 5 mi	

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	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
D .	The Following Emergency Measures Inclu	ding Protective A	ctions are Recommend
1.	The Following Emergency Response Actio	ons are Underway:	
2.	We Request the Following Onsite Suppor	t and Assistance :	from Offsite Sources
2.	We Request the Following Onsite Suppor Our Prognosis of the Emergency is that Are Under Control Can be Expected to Terminate Wit Are Worsening	Conditions:	from Offsite Source:
3.	Our Prognosis of the Emergency is that Are Under Control Can be Expected to Terminate Wit	Conditions:	from Offsite Sources

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	VNGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX E Page 1 of 1
	SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 18 of 39
1.	EMERGENCY TERMINATION Verbatim text of message: THIS IS THIS IS PALO VERDE NUCLEAR GENERAT UNUSUAL EVENT) (ALERT) (SITE AREA (circle approprite classification) AT	(IS NOT) A DRILL! ING STATION. THE EMERGENCY) (GENERA	(NOTIFICATION OF AL EMERGENCY)
	(Time) (Date)		
	This is(Name) Verde Nuclear Generating Station U	(Date)	_, at Palo
3.	PALO VERDE AUTHENTICATOR(Authenticator Lett	ers)
	proved:		

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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 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

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

NOTE

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

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

> "THIS IS PVNGS, UNIT _, CLASSIFICATION TWO, PLEASE RESPOND APPROPRIATELY." (Repeat message once)

- 1.10 If an individual requests information not contained in the Emergency Message Form, make reasonable efforts to obtain and give the information only after all <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).
- 1.13 Offer to repeat information and reiterate as necessary.

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PVNGS EMERGENCY PLAN IMPLEMENTING 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 1-3 of Appendix D, "Follow-up Emergency Message Form."

NOTE

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

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

3.0 EMERGENCY TERMINATION MESSAGE FORM (APPENDIX E)

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

NOTE

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

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

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

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO EPIP-05	APPENDIX G Page 1 of 2
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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."
- Wait 30 seconds to allow the offsite agencies to get to their radios, then rapeat 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."

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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.

7. Continue notification per Step 1.8 Appendix F.

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX H Page 1 of 1
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PROTECTIVE ACTION RECOMMENDATIONS

Classification Category

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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 recommend seeking shelter within a 2 mile radius of the plant and within 5 miles in affected sectors as warranted based on plant/containment conditions and projected and/or actual releases.

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SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 25 of 39

EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

POSITION FILLED BY:

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

RESPONSIBILITY:

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

NOTE

Refer to the following pages per appropriate facility activation

Facility Activated	Appe	ndix I Page
STSC		1-4
TSC		5-8
TSC/EOF		9-11

INITIAL RESPONSE

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- 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.

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	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
	 Direct the Security Director to call in the PVNGS <u>onsite</u> and <u>offsite</u> Emergency Organization Personnel. 		
7.	Provide plant wide public address announcement when the STSC is activated.		
8.	Verify personnel resources are on star	ndby in the OSC.	
9.	Reevalute the emergency classification reclassify as necessary.	n as conditions cha	inge per EPIP-02,
10.	As necessary, direct implementation of EPIP-23, "Fire Fighting" and EPIP-22, "Personnel Injury."		
	 For a fire, dispatch Fire Team and contact the Bechtel or alternate assistance (if required). 	nd order the Securi offsite fire depar	ty Director to the to the to
	(2) For personnel injury, contact the of the situation. Dispatch a Fin coordinate any required offsite a	rst Aid Team, if ne	and inform them cessary, and
11.	Determine any additional protective ac to state and county response agencies Guidelines."	ction recommendation per EPIP-15, "Prot	ens to be provided ective Action
12.	As appropriate, complete Follow-up Eme	ergency Message For	

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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

SUBSEQUENT RESPONSE

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Personnel Assembly and Accountability

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

Emergency Exposures and KI

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

TSC Activation and Transfer of Authority

19. When relieved by <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 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).

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-05	APPENDIX I Page 4 of 13	
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Security

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

Corrective Actions

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

Assessment Actions

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

Protective Actions

- 26. Continue to evaluate the need for providing Protective Action recommendations.
 - 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.
 - Order evacuation signal when the Security Director reports that preparations are complete.

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

INITIAL RESPONSE

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- 1. 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

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- 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.

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	SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 31 of 39	
	EMERGENCY COORDINA TSC ACTIVA	the search and the search as		
9.	Determine additional protective action state and county response agencies per Guidelines."	n recommendations t r EPIP-15, "Protect	to be provided to tive Action	
10.	As appropriate, complete Follow-up Eme	ergency Message For		
11.	Determine the need for offsite support location(s) in EPIP-33, "Offsite Assis Security Director per EPIP-24, "Secur:	stance," arrange ac	nunicator to call cess with the	
	Personnel Assembly and	d Accountability		
12.	Within 30 minutes of the acccountabil: accountability in the protected area	ity signal, receive from the Security D	a report on Director.	
13.	Receive a report on site accountabilit	ty later.		
14.	Be prepared to implement EPIP-21, "Sea necessary data to the OSC Coordinator Coordinator).	arch and Rescue," b (via Emergency Mai	by providing Intenance	
	Emergency Exposur	res and KI .		
15.	Per EPIP-18, "Emergency Exposure Guide emergency exposures.	elines," and as nec	cessary, authoriz	
16.	As necessary, authorize administration workers desiring to use it. Consult w: Coordinator.	n of KI per EPIP-26 ith the Radiologics	to emergency al Protection	
	OSC Activa	tion		
17.	If a release is occurring, consult EP Activation," to determine habitability	IP-12, "Operations y of the primary OS	Support Center	
18.	If uninhabitable, direct the OSC Coord equipment/supplies to the alternate OS also uninhabitable, direct the OSC Coo area (control room/STSC, TSC or EOF).	SC (Service Buildin	ng). If this is	

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SITE AREA EMERGENCY RESPONSE TSC ACTIVATED

EOF Activation

 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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Event Termination or Reduction

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SITE AREA EMERGENCY RESPONSE TSC ACTIVATED

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

Recovery

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

Event Termination or Reduction

29. Contact PVNGS Compliance at ext.

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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.
- 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 offsite assistance.

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EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

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

Personnel Assembly and Accountability

- 10. Within 30 minutes of the accountability signal, receive a report on accountability in the protected area from the Security Director.
- 11. Receive a report on site accountability later.
- 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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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

 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 Eavouation."
- 22. 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.

Recovery

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

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SITE AREA EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 37 of 39
Event Termination	or Reduction	
Contact PVNGS, Compliance at ext.	ry within 8 hours	to offsite
authorities. Provide documentation a	as requested.	

	RGENCY PLAN	PROCEDURE NO. EPIP-05	APPENDIX J Page 1 of 2
	A EMERGENCY TING ACTIONS	REVISION 9	Page 38 of 39
	STSC COMMUNICAT	OR RESPONSE	
POSITION FILLED BY:			
	Nuclear Opera	tor from affected	unit
RESPONSIBILITY:	Initiate the notif onshift Emergency communications equ logbook.	ication process as Coordinator. Ensu ipment. Maintain	re operability of
IMMEDIATE ACTIONS			
	STSC Activ	ation	
1. Report to the S	TSC upon notification.		
No	tification of ALERT, S GENERAL EME		
2. Complete the In Emergency Coord	itial Emergency Messag inator or Shift Superv	e Form as directed isor.	by the <u>Onshift</u>
 Initiate notifi Shift Superviso 	cation process as dire r in his absence).	cted by the Emerge	ncy Coordinator (or
4. Inform the Emer	gency Coordinator when	initial notificat	ions are complete.
 Contact the Sec personnel if so 	urity Director and inf directed by the Emerg	orm him to call in ency Coordinator.	additional
 Prepare the Fol Coordinator. 	low-up Emergency Messa	ge Form as directe	d by the Emergency
7. Provide follow-	up information when re	quested by the Sta	te/County agencies.

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Notification of ALERT, SITE AREA EMERGENCY, GENERAL EMERGENCY

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

Offsite Assistance

- 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.
- 12. Inform the Emergency Coordinator of contact/lack of contact, scope of offsite assistance and estimated time of arrival.

ACTIVATION OF ONSITE EMERGENCY CRGANIZATION

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

* Continuing Activity

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	
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ASSIGNED COPY PVNGS #8-DEPT. HEAD Harry Le Cennis Your DATE 14/1/85 PRB/PRG/TRRG REVIEW DATE APPROVED BY 01-15-86 EFFECTIVE DATE DN-1601A/0787A

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		REVISION H	ISTORY	1 -
Rev. No.	Date	Revised Pages		Comments
5	2-14-85	A11	Total Rev:	ision: Revises
			procedures	s and appendices.
			Included H	Emergency Coord.
			checklist.	
6	05-01-85	App. A & B	Revised to	incorporate PCN
			#01 of Rev	7. 5. PCN
			corrected	phone #'s in App.
			<u>`A&B.</u>	
7	06-17-85	3, 6, 7, 8, 9	Added term	ination message
		10, 11, 13,	form and instructions. Ad	
		14, 17, 18,	event desc	ription to follow-
		19, 20, 22,	up form.	Added note to
		25 & 29	provide gu	idance on

notifications. Charged seq.

of notifications in App. A.

Capitalized announcement to

Updated all references to

make easy to identify.

appendices.

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REVISION HISTORY

Rev. No.	Date	Revised Pages	Comments
	09-10-85	4,6,8,9,10	Incorporated PCN #1 of
		11,12,13,20,	Rev. 7, added new phone #'s,
		21,26,27,29	& STSC Communication Check-
		30,33,34,37,	List, plus detailed instruc-
		38,39	tions for announcements.
9	01-15-100	4,8,9,10,12,11,	Incorporated PCN #1 and 2 of
	-	13,14,15,17,	Rev. 8, Deleted Time/
	and the second second	18,24,26,27,	Initials column in
		28,29,30,31,	Appendices I and J.
		32,33,34,35,	
		36,37,38,39	
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	and the second se		
and the second second second second	and the second second		and we also use on a party of the set of the

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2.0	REFERENCES	5
3.0	LIMITATIONS AND PRECAUTIONS	6
4.0	DETAILED PROCEDURE	6
	 4.1 Personnel Indoctrination/Responsibilities 4.2 Prerequisites 4.3 Instructions 	6 7 7

APPENDICES

Appendix	A	- Emergency Notification Call List - Emergency Coordinator/STSC Communicator	12
Appendix	B	- Emergency Notification Call List - PVNGS Security	13
Appendix	С	- Initial Emergency Message Form	14
Appendix	D	- Follow-up Emergency Message Form	15
Appendix	E	- Emergency Termination Message Form	18
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1.0 OBJECTIVE			
1.1 This pro taken up	ocedure provides a serie on declaration of a GE?	es of implementing NERAL EMERGENCY.	actions to be
	1.		
2.0 REFERENCES			
2.1 Implemen	ting References		
2.1.1 EPIF	-02, "Emergency Classif	fication"	
2.1.2 EPIP	-11, "Technical Support	Center/Satellite	TSC Activation
2.1.3 EPIF	-12, "Operations Support	rt Center Activatio	n"
2.1.4 EPIF	-13, "Emergency Operation	ions Facility Activ	ation"
2.1.5 EPIF	-14A, "Release Rate Det	ermination"	
2.1.6 EPIF	-14B, "Initial Dose Ass	essment"	
2.1.7 EPIF	-15, "Protective Action	Guidelines"	
2.1.8 EPIF	-16, "Inplant Surveys a	and Sampling"	
2.1.9 EPIF	-17, "Onsite/Offsite Su	rveys and Sampling	"
2.1.10 EPIF	-18, "Emergency Exposur	e Guidelines"	
2.1.11 EPIP	-19, "Onsite Evacuation	' "	
2.1.12 · EPIP	-20, "Personnel Assembl	y and Accountabili	ty"
2.1.13 EPIP	-21, "Search and Rescue	"	
2.1.14 EPIP	-22, "Personnel Injury"	te de la serie	
2.1.15 EPIP	-23, "Fire Fighting"		
2.1.16 EPIP	-24, "Security"		
2.1.17 EPIP	-25, "Reentry for Recov	very Operations"	
2.1.18 EPIP	-26, "Potassium Iodide	(KI) Administratio	n"

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2.1.19	EPIP-31, "Recovery"		
2.1.20	EPIP-33, "Offsite Assistance	e"	
2.1.21	71AC-9ZZ01, "Event Related 1	Reporting"	
2.1.22	9N219.05.00, "Document/Record	rd Turnover Contr	ol"
2.2 De	velopmental References		
2.2.1	NUREG-0654, Rev. 1, "Criter: of Radiological Emergency Re Support of Nuclear Power Pla	esponse Plans and	n and Evaluation Preparedness in
2.2.2	PVNGS Emergency Plan, Rev. 6	6	
3.0 <u>LIMI</u>	TATIONS AND PRECAUTIONS		
ap	ntinued surveillance and asses cessary to ensure that the eme propriately revised as condit: formation is obtained.	argency classific	ation is
Not	tifications to State/County ag tification Call List - Emerger all commence within 15 minutes	ncy Coordinator/S	TSC Communicator
4.0 <u>DETA</u>	LED PROCEDURE		
	sonnel Indoctrination		
4.1 Pe:			ss or have

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	MERGENCY PLAN	PROCEDURE NO. EPIP-06	
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4.1.2	Accordingly, prompt conside actions, based on actual or Consideration of predeterms recommendations (in the eve product barriers) may also emergency centers are active initiated if appropriate. radiological/meteorological management organizations as status shall be maintained reclassification takes place The Shift Supervisor or the responsible for initiating	r projected data, ined protective ac ent of potential 1 be warranted. On vated. Onsite eva The station shall 1 information to o s necessary. The until the event i te.	is warranted. tion oss of fission site and offsite cuation shall be provide updated ffsite emergency GENERAL EMERGENO s terminated or nator shall be
4.2 Pre	actions of this procedure.	and completing th	e implementing
4.2.1			
	The emergency has been class Classification."	ssified per EPIP-0	2, Emergency
4.3 Ins	tructions		
4.3.1	The affected unit Shift Sup following:	pervisor shall per	form the
	NOT	TE	
	Designated Unaffected to assume the role of Coordinator in the Oris Organization are:	the Emergency	isor
	Affected Unit Unaff Unit 1 Unit 2 Unit 3 Entire Site	fected Unit Shift Unit 2 Unit 1 Unit 2 Unit 2 Unit 1	Supervisor
4.3.1	unit (or Shift Supervis report to the Control F	sor of an unaffect	ed unit) to ed unit and
	and the decide of th		

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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

- .3 Direct the Satellite TSC Communicator (or Government Liaison Engineer) to fill out Appendix C, "Initial Emergency Message Form," in accordance with instructions provided in Appendix F.
- 4.3.1.4 Ensure the accountability signal is sounded for approximately one minute.
- 4.3.1.5 Silence the signal and ensure the following announcement is made over the plant wide telephone page

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	"ATTENTION ALL PLANT CLASSIFIED AS A <u>GENER</u> UNIT ASSEMBLY PROGRESS. ALL AFFECT AND ALTERNATES REPORT OTHER PERSONNEL REPOR (Provide instructions appropriate).	AL EMERGENCY EXIS AND ACCOUNTABILI ED UNIT EMERGENCY TO YOUR EMERGENC T TO YOUR ASSIGNE	TS IN TY ARE NOW IN RESPONSE PERSONN Y LOCATION. ALL D ASSEMBLY AREA."
4.3.1.6	Ensure the announcement the Site Warning Siren/	in Step 4.3.1.5 Public Address Sys	is repeated over stem.
4.3.1.7	Ensure the accountabili announcement in Steps 4	ty signal is reson. 3.1.5 and 4.3.1.0	unded and the 6 is repeated.
4.3.1.8	Ensure that actions of casualty procedures hav	the appropriate re e been implemented	ecovery or d.
4.3.2 The	Emergency Coordinator s	hall perform the	following:
4.3.2.1	Ensure activation of th EPIP-11, "Technical Sup Activation."	e satellite TSC in port Center/Satel	n accordance with lite TSC
4.3.2.2	Following accountabilit initiate EPIP-19, "Onsi	y, and if condition to Evacuation."	ons warrant,
4.3.2.3	Implement additional Em Procedures according to the emergency being cla	the situation the	st resulted in
4.3.2.4	Direct the Security Dir Offsite Emergency Organ appropriate computer ca	ization personnel	Dusite and by utilizing the
4.3.2.5	Direct the STSC Communi Engineer) to prepare App Message Form" in accord Appendix F.	pendix D, "Follow.	up Emergency
4.3.2.6	Determine the need for is necessary, direct the Administrative and Logi required agency per EPI	e STSC Communicato stics Coordinator	or (onshift) or to contact the
4.3.2.7	Reevaluate the emergency licensee actions as comprocedure EPIP-02.	y classification a ditions change by	and perform implementing

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	4.3.2.8	When the situation war: EMERGENCY, proceed to notification procedures to announce the downgra system and inform the o	appropriate implements and direct the Sl ading over the pub	enting and hift Supervisor lic address
	4.3.2.9	Provide overall direct: emergency response as p Coordinator Response.	ion and control of per Appendix I - En	the <u>ONSHIFT</u> mergency
	4.3.3 PV	NGS Security, after being	g notified by the H	Emergency
	Coo in con PVN	ordinator or STSC Communi- progress or has occurred mplete Appendix B, "Emerg NGS Security," and notify the situation.	icator that a Gener d, or has been terr gency Notification	ral Emergency is minated, shall Call List -
	4.3.4 Op	erations Support Center	(OSC) Activation	
. ×	4.3.4.1	The OSC Coordinator she Support Center Activat:	all implement EPIP- ion."	12, "Operations
	4.3.5 Em	ergency Operations Facil:	ity (EOF) Activatio	n
	4.3.5.1	The Emergency Operation procedure EPIP-13, "Eme Activation."	ns Director shall s argency Operations	implement Facility
	4.3.6 Eme	argency Situation Termina	ated	
	4.3.6.1	The Shift Supervisor (c ensure the "All Clear" approximately (1) minut announcement is made or	signal is sounded te and that the fol	for llowing
		"ATTENTION ALL PER SITUATION DECLAREI NOW BEEN TERMINATE instructions as ne	D IN UNIT HAS ED. (Provide speci	3
	4.3.6.2	Ensure the announcement the Site Warning Siren/	t in Step 4.3.6.1 i /Public Address Sys	is repeated over stem.
	4.3.6.3	Ensure Steps 4.3.6.1 ar	nd 4.3.6.2 are repe	ated once.
	4.3.6.4	Direct the STSC Communi- Engineer) to fill out A Message Form," per inst	Appendix E, "Emerge	ency Termination

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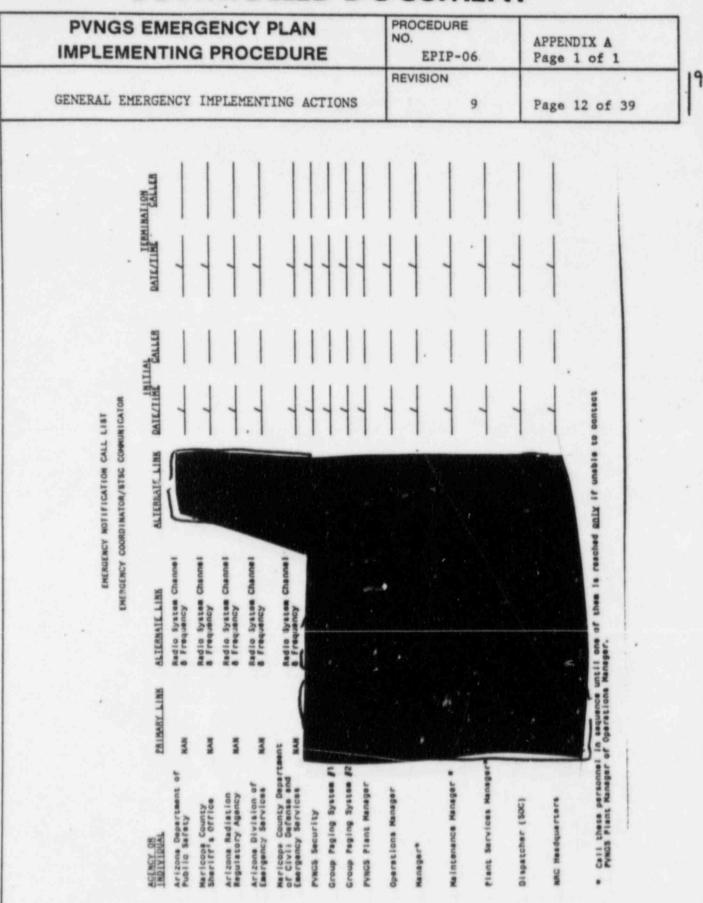
4.3.6.5 Direct the STSC Communicator (or Government Liaison Engineer) to transmit the termination per Appendix A.

4.3.6.6 At close out or reduction of the GENERAL EMERGENCY classification, the S.S./E.C. shall notify PVNGS Compliance Dept. at extra for beeper not of the event to offsite authorities within eight (8) hours. S.S./E.C. shall provide shift logs, control room logs, etc. as requested by Compliance for preparation of the report.

4.3.7 Record Retention

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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." 9



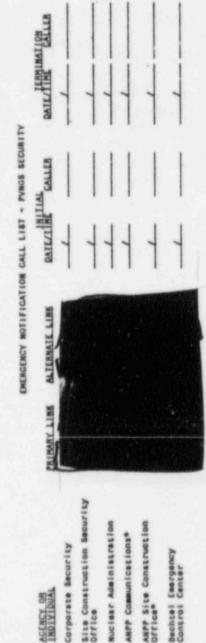
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"Available during working hours only.

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1		GS EMERGENCY PLAN EMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX C Page 1 of 1		
			REVISION	1.1.1.1.1.1.1		
G	JENERA	L EMERGENCY IMPLEMENTING ACTIONS	9	Page 14 of 3		
1.	v	INITIAL EMERGENCY M NOTIFICATION OF UNU ALERT, SITE AREA EMERGENCY, (SUAL EVENT, OR GENERAL EMERGEN			
	4	erbatim text of Message: THIS IS HIS IS PALO VERDE NUCLEAR GENERAT NUSUAL EVENT) (ALERT) (SITE AREA I (circle appropriate o	ING STATION (NOTIF EMERGENCY) (GENERA	ICATION OF		
dec	lared	at $\frac{1}{(time)} = \frac{1}{(date)}$ = Wind is from	om degrees -	Atmph. (speed)		
	PALO	VERDE AUTHENTICATOR				
2.		is, at the, at the	ator letters) ne Palo Verde Nucl	ear Generating		
		ion Unit				
3.		ccle One) There is <u>NO</u> , repeat <u>NO</u> , radioactive release taking place and no special protective actions are recommended at this time.				
	(b)	OR There is <u>NO</u> , repeat <u>NO</u> , radioacts allowable operating limits and <u>NO</u> recommendations at this time.	ve release in exc protective action	ess of n		
	(c)	OR There is <u>NO</u> , repeat <u>NO</u> , radioacti time. However, the following pro Sectors	ve release taking tective actions a Distance (1	re recommended.		
				<u> </u>		
		OR				
	(d)	A radioactive release <u>IS</u> , repeat that people in affected sectors r doors closed.	<u>IS</u> , taking place. emain indoors with	We recommend a windows and		
		Sectors	Distance (!	files)		
		a construction of the second				
	(e)	OR A radioactive release <u>IS</u> , repeat that evacuation of affected secto	IS, taking place. rs be considered.	We recommend		
		Sectors	Distance (!	files)		
4.	THIS	IS (IS NOT) A DRILL!! (Circle One)	_		
		Approved				
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IM	VNGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX D Page 1 of 3
GEN	ERAL EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 15 of 39
			1.0.
	FOLLOW-UP EMERGENCY	MESSAGE FORM	
1.	Verbatim text of Message: THIS IS THIS IS A PALO VERDE NUCLEAR GENER message concerning the (NOTIFICAT) AREA EMERGENCY) (GENERAL EMERGENCY) (circle appropriat	RATING STATION follo ION OF UNUSUAL EVEN ()	ow-up information
	declared at	_	
	(time) (date)		
2.	This is, at H (name/title)	Palo Verde Nuclear (Generating Statio
	Unit (name/title)		
	Brief description of all		
з.	Brief description of the event		
4.	Meteorological Data		
4.	a. Wind direction from	(degrees) - at	miles per hour
4.	Meteorological Data a. Wind direction from (direction)	(degrees) - at (spe	_ miles per hour med)
4.	a. Wind direction from	(spe	_ miles per hour med)
4.	a. Wind direction from (direction)	(spe	_ miles per hour ed)
4.	 a. Wind direction from (direction) from to (sector) b. Stability Class: A B C D E F 	(spe (spe) G (se)	_ miles per hour med)
	 a. Wind direction from (direction) from to (sector) b. Stability Class: A B C D E F (Circle On C. Precipitation Yes No 	(spe (spe) G (se)	_ miles per hour med)
5.	 a. Wind direction from (direction) from to (sector) b. Stability Class: A B C D E F (Circle One c. Precipitation Yes No (Circle One 	(spe (spe) G (se)	_ miles per hour
5.	 a. Wind direction from (direction) from to (sector) b. Stability Class: A B C D E F (Circle One c. Precipitation Yes No (Circle One Radiological Data 	(spe (spe) G (se)	_ miles per hour med)

	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
		1	1
5	b. Release Time		
	c. Reactor Trip Time		
6	d. Location/Source of Release Current Release Rates		
0.	and the second second second		
	a. I-131 Equivalent C b. Noble Gas C	i/second	
24	c. Particulates C	i/second	
7.	Two-hour plume centerline projected	dose at:	
	Distance Sector Whole Body Dose (REM)	Child Thyroid Dose Commitment (REM)	
	Site		
	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 10 mi 10 mi Ruth Fisher School		
	Boundary 2 miles 5 miles 10 miles Plume arrival time offsite: 2 mi10 mi		

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE			PROCEDURE NO. EPIP-06	APPENDIX D Page 3 of 3
			REVISION	
GENE	RAL	EMERGENCY IMPLEMENTING ACTIONS	- 9	Page 17 of 3
		•	1	
10.	The	Following Emergency Measures I	ncluding Protectiv	Actions are
10. The Following Emergency Measures Including Protective Actions are Recommended:				e neerons are
11.	The	Following Emergency Response A	ctions are Underwa	у:
	-			
12.	We Sou	Request the Following Onsite Surces:	pport and Assistan	ce from Offsite
	-			
13.	Our	Prognosis of the Emergency is	that Conditions:	
13.	Our	Prognosis of the Emergency is Are Under Control		
13.	Our			
	-	Are Under Control Can Be Expected to Terminate		
	Oth a)	Are Under Control Can Be Expected to Terminate Are Worsening er Information: Power Prior to Event (%)	Withinhours	
	0th a) b)	Are Under Control Can Be Expected to Terminate Are Worsening er Information: Power Prior to Event (%) Current Power or mode	Withinhours	
	0th a) b) c)	Are Under Control Can Be Expected to Terminate Are Worsening er Information: Power Prior to Event (%)	Withinhours	
14.	0th a) b) c) d)	Are Under Control Can Be Expected to Terminate Are Worsening er Information: Power Prior to Event (%) Current Power or mode Mode of Operation Till Correct	Withinhours	
14.	0th a) b) c) d)	Are Under Control Can Be Expected to Terminate Are Worsening er Information: Power Prior to Event (%) Current Power or mode Mode of Operation Till Correct Estimated Time to Restart	Withinhours	
14.	0th a) b) c) d)	Are Under Control Can Be Expected to Terminate Are Worsening er Information: Power Prior to Event (%) Current Power or mode Mode of Operation Till Correct Estimated Time to Restart	Withinhours	· · ·

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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	
 Verbatim text of message: THIS IS THIS IS PALO VERDE NUCLEAR GENERAT: UNUSUAL EVENT) (ALERT) (SITE AREA H (circle approprite classification) AT 	ING STATION. THE EMERGENCY) (GENERA)	(NOTIFICATION O
(Time) (Date)		
(Time) (Date)		
2. This is		, at Palo
(Name) Verde Nuclear Generating Station Ur	(Date)	
	····	
3. PALO VERDE AUTHENTICATOR		· · · ·
(4	Authenticator Lette	ers)
Approved:		
		and the second se
(SS/EC/EOD)	Date/T	ime
(SS/EC/EOD)	Date/T:	ime
(SS/EC/EOD)	Date/T	Lme
(SS/EC/EOD)	Date/T	Læe
(SS/EC/EOD)	Date/T	Lme
(SS/EC/EOD)	Date/T	Læe
(SS/EC/EOD)	Date/T	Læe
(SS/EC/EOD)	Date/T	Lme
(SS/EC/EOD)	Date/T	Læe
(SS/EC/EOD)	Date/T	Læe
(SS/EC/EOD)	Date/T	Læ

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX F Page 1 of 3	
GENERAL 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 wonth and drill sequence number (if it is a drill).
 - 1.2 Obtain from the Radiation Protection Monitor (onshift) or Radiological Assessment Coordinator (if EOF is activated) data required to complete step 3 of Appendix C.
 - 1.3 Circle appropriate wording of step 4 of Appendix A.

NOTE

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

NOTE

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

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

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

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

1. 14.8 M BROWSELF (1114) WEAR PLAN AND AN ASSOCIATION CONTRACTORS

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		REVISION	
JENERAL	EMERGENCY IMPLEMENTING ACTIONS	9	Page 20 of 39
	Off-Duty Hours (5:00 p.m. to 8 Saturday, Sund	:00 a.m., Monday-F ay and holidays)	riday, all day
	Maricopa County Sheriff's Offi Department of Public Safety	ce	
1.5	In the event that an offsite g not answer the NAN phone or NA or actual emergency, the Nucle shall notify the agency via re in Appendix A).	N backup radio dur ar Operator (or ST	ing a test, dril 'SC Communicator)
1.6	When contact is made, the call request that the individuals of Emergency Message Form.		
1.7	When each individual has obtain Emergency Message Form verbatin verbatim. Perform warning point	m and request MCSC	he completed to read back
1.8	Offer to repeat information an	d 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	SC. Be aware that ay lapse between	r the as
1.9	Notify additional personnel as and inform them of the situation for both Group Paging Systems	on. Provide the f	ollowing message
	"THIS IS PVNGS, UNIT PLEASE RESPOND APPROPRIAT once).	, CLASSIFICATION T ELY." (Repeat mes	WO, sage
1.10	If an individual requests info Emergency Message Form, make r give the information only afte been made.	easonable efforts	to obtain and
1.11	Contact the NRC via the Emerge dedicated telephone within 60 If the ENS fails, use commerci	minutes of declari	ng an emergency.

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	GS EMERGENCY PLAN MENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX F Page 3 of 3			
GENERAL	GENERAL EMERGENCY IMPLEMENTING ACTIONS		Page 21 of 39			
1.12	When contact is made, the calle the completed Emergency Message Verde Authenticator).	r shall identify Form verbatim (d	himself and read omit the Palo			
1.13	Offer to repeat information and	reiterate as neo	cessary.			
2.0 1	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-radiological in nature, steps 4-9 may be deleted.					
2.2	Obtain from the Radiation Prote Assessment Coordinator (If EOF complete steps 4-9.	ction Monitor or is activated) dat	the Radiological a required to			
2.3	Obtain from the Emergency Coord. Coordinator (If EOF is activated 10-14.	inator or the Tec d) data required	chnical Analysis i to complete step			
2.4	Circle appropriate wording in step 15.					
2.5	Dispense information when asked by offsite agencies (NRC or ARRA).					
3.0	3.0 EMERGENCY TERMINATION MESSAGE FORM (APPENDIX E)					
3.1	Fill in data required by steps Termination Message Form."	1-3 at Appendix E	, "Emergency			
3.2	Obtain approval from SS/EC/EOD.					
3.3	Transmit termination per Appendix A.					
	NOTE					
	To verify the group page as pager installed in the STS much as two (2) minutes may dial-up and the broadcast	C. Be aware that y lapse between	or the as			
3.4	When using the Group Paging Systermination, use the following in	tens to announce	event			

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"THIS IS PVNGS UNIT ____, EMERGENCY TERMINATED. PLEASE

A STATE FRANK CONTRACTANTING WANTS IN THE NEW WARD COLD AND CONTRACT STREET AND COMPACT AND ADDRESS IN STATE IN THE WARD STATE IN T

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX G Page 1 of 2
GENERAL EMERGENCY IMPLEMENTING ACTIONS	REVISION	Page 22 of 39

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."
- 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 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: "5-11 ARRA copies."

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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 notification per Step 1.8 Appendix F.

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1	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		EDURE .	APPENDIX H Page 1 of 2
	And a state of the second second second	REVISION		
(GENERAL EMERGENCY IMPLEMENTING ACTIONS		9	Page 24 cf 39
	PROTECTIVE ACTION R	ECOMMEN	DATIONS	
_	Classification Category		Protective Recommenda	
1.	A General Emergency has been declared (imminent/actual loss of physical control of the plant)	if:	mile radiu within por sectors* Consider a	shelter within a 2 us, and out to 5 mile tentially affected a 2 mile hary evacuation.
2.	A General Emergency has been declared a large amounts of fission products are the containment atmosphere. The project dose using containment area monitor real is calculated to be: a) whole body > 5 rem b) thyroid > 25 rem	In addition to considering a 2 mile evacuation, consider a 5 mile downwind evacuation		
3.	3. A General Emergency has been declared and containment failure leading to a direct atmospheric release is likely in the sequence but not imminent and large amounts of fission products in addition to noble gases are in the containment atmosphere. The projected dose using containment area monitor readings is calculated to be: a) whole body > 5 rem b) thyroid > 25 rem		2 mile 360 evacuation tionary 36 miles and	on to considering a 0° precautionary 1, consider a precau- 50° evacuation to 5 a downwind evacuation as of potentially af- ctors. *
4.	A General Emergency has been declared a large amounts of fission products other than noble gases in the containment atmosphere and containment <u>failure</u> is <u>judged imminent</u> . The projected dose us containment area monitor readings is calculated to be: a) whole body > 5 rems b) thyroid > 25 rems		2 mile 360 evacuation tionary 36 miles and to 10 mile fected sec shelter fo evacuation completed	on to considering a of precautionary a consider a precau- bo evacuation to 5 a downwind evacuation as of potentially af- ctors,* and consider or areas where a cannot be before the transport by to those areas.

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

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1	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX H - Page 2 of 2
G	ENERAL EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 25 of 39
	PROTECTIVE ACTION RECO Classification Category	MMENDATIONS (CON Protective Recommend	T'D) Actions
5.	An actual release has occured and the projected does to individuals in the population is calculated to be: a) whole body ≥ 0.5 to < 1 rem b) thyroid ≥ 1.0 to < 5 rems		
6.	An actual release has occured and the projected does to individuals in the population is calculated to be: a) whole body > 1 rem to < 5 rems b) thyroid > 5 rems to < 25 rems	Recommend a 360° evacuation 2 miles and in affected sectors* out to 10 miles. Recommend seeking shelter 360° out to 10 miles.	
7.	An actual release has occured and the projected does to individuals in the population is calculated to be: a) whole body > 5 rems b) thyroid > 25 rems	5 miles a sectors* Recommend	a 360° evacuation fo and in affected out to 10 miles. I seeking shelter to 10 miles.

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

	ERGENCY PLAN	PROCEDURE NO. EPIP-06	APPENDIX I Page 1 of 12
GENERAL EMERGE	NCY IMPLEMENTING ACTIONS	REVISION 9	Page 26 of 39
	EMERGENCY COORDINAT STSC ACTIVA		
POSITION FILLED BY			
	 PVNGS Plant Manager Manager, Technical S 	upport	
	3) Shift Supervisor	apport	
<u>RESPONSIBILITY</u> :	The individual onsite wi to immediately and unila including providing noti recommendations to Gover implementing offsite eme control and coordination	terally initiate fication and prot nmental authorit: rgency measures.	emergency actions, tective action ies responsible for Provide for the

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NOTE

Refer to the following pages per appropriate facility activation

Facility Activated	A	ppendix	¢ 1	I Page
STSC		1	-	4
TSC		5	-	8
TSC/EOF		9	-	12

INITIAL RESPONSE

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

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GENERAL EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 27 of 39

EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

SUBSEQUENT RESPONSE

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- 7. Provide plant wide public address announcements where the STSC is activated.
- 8. Verify personnel resources are on standby in the OSC.
- 9. Reevaluate the emergency classification as conditions change per EPIP-02, reclassify as necessary.
- 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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EMERGENCY COORDINATOR RESPONSE STSC ACTIVATED

Emergency Exposures and KI

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

TSC Activation and Transfer of Authority

19. When relieved by the <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.
- 24. Determine needs, consult with staff, authorize reentry per EPIP-25, "Reentry for Emergency Operations."

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		REVISION	
	GENERAL EMERGENCY IMPLEMENTING ACTIONS	9	Page 29 of 3
	EMERGENCY COORDINAT STSC ACTIVA		
	Assessment Actions		
25.	Ensure that the Radiation Protection Mo using EPIP-14A, "Release Rate Determina Assessment," EPIP-16, "Inplant Surveys "Onsite/Offsite Surveys and Sampling."	tion " EPTP-14B	"Initial Doco
	Protective Actions		
26.	Continue to evaluate the need for provi action recommendations.	ding any addition	al protective
27.	Determine need for early dismissal/evac EPIP-19, "Onsite Evacuation."	uation of non-ess	entials per
28.	Establish evacuation order, offsite rea inform the Security Director.	ssembly area, eva	cuation route a
29.	Order evacuation signal when the Securi preparations are complete.	ty Director repor	ts that
	Event Termination or Red	uction	
30.	Contact PVNGS Compliance at Ext. to provide written summary authorities. Provide documentation as	within 8 hours t	o offsite
		1960 - N.S.	
	전에는 방법 가슴이 가지 않는 것이 가지 않는 것이 같아.		

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX I Page 5 of 12	
GENERAL EMERGENCY IMPLEMENTING ACTIONS	REVISION 9	Page 30 of 39	

EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

INITIAL RESPONSE

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- 1. 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

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- Reevaluate the emergency classification 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."

	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-06	APPENDIX I Page 6 of 12
		REVISION	
-	GENERAL EMERGENCY IMPLEMENTING ACTIONS	9	Page 31 of 39
	EMERGENCY COORDINAT TSC ACTIVAT		
	 For a fire, dispatch Fire Team and contact the Bechtel or alternate o assistance (if required). 	order the Secur: ffsite fire depar	ity Director to rtment for
	(2) For personnel injury, contact the of the situation. Dispatch a Firs coordinate any required offsite as	t Aid Team, if ne	and inform them acessary, and
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 Emer	gency Message For	
11.	Determine the need for offsite support call location(s) in EPIP-33, "Offsite A Security Director or EPIP-24, "Security	ssistance." arran	SC Communicator tage access with the
	Personnel Assembly and A	ccountability	
12.	Within 30 minutes of the accountability accountability in the protected area fr	signal, receive om the Security I	a report on Director.
13.	Receive a report on site accountability	later.	
14.	Be prepared to implement EPIP-21, "Sear necessary data to the OSC Coordinator (Coordinator).	ch and Rescue," b via Emergency Mai	y providing ntenance
	Emergency Expos	ures and KI	
15.	Per EPIP-18, "Emergency Exposure Guidel emergency exposures.	ines," and as nec	essary, authorize

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EMERGENCY COORDINATOR RESPONSE TSC ACTIVATED

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

OSC Activation

- 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

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

Security

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

Corrective Actions

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

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	EMERGENCY COORDINAT TSC ACTIVAT		
	Assessment Actio	ons	
23.	Ensure that the Radiological Protection data using EPIP-14A, "Release Rate Dete Assessment," EPIP-16, "Inplant Surveys "Onsite/Offsite Surveys and Sampling."	ermination," EPIP	-14B. "Initial Dos
	Protective Actio	ons	
24.	Continue to evaluate the need for provi action recommendations.	iding any addition	nal protective
25.	Determine the need for early dismissal/ EPIP-19, "Onsite Evacuation."	evacuation of nor	n-essentials per
26.	Establish evacuation order, offsite real inform the Security Director.	assembly area, ev	acuation route and
27	Order evacuation signal when the Security preparations are complete.	ity Director repo	rts that
	Recovery		
28.	After the EOF is activated, consult wit concerning implementing EPIP-31, "Recov	th the Emergency very."	Operations Direct
	Event Termination or Rec	duction	
29.	Contact PVNGS Compliance at Ext.	within 8 hours	to offsite
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EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

INITIAL RESPONSE

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- 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 COORDINAT TSC and EOF ACT		
9.	Determine the need for offsite support call location(s) in EPIP-33, "Offsite A	and direct the ST	SC Communicator
	Security Director per EPIP-24, "Securit; Administrative and Logistics Coordinato;	V. and coordinat	ige access with t e with the
	Personnel Assembly and A	ccountability	
10.	Within 30 minutes of the accountability a accountability in the protected area fro	signal, receive a om the Security D	report on irector.
11.	Receive a report on site accountability		
12.	Be prepared to implement EPIP-21, "Search necessary data to the OSC Coordinator (* Coordinator).	ch and Rescue," b via Emergency Mai	y providing ntenance
	Emergency Exposures a	and KI	
13.	Per EPIP-18, "Emergency Exposure Guidel: emergency exposures.	ines," and as nec	essary, authoriz
14.	As necessary, authorize administration of workers desiring to us it. Consult with Coordinator.	of KI per EPIP-26 the Radiologica	to emergency 1 Protection
	OSC Activation		
15.	If a release is occuring, consult EPIP-1 Activation," to determine habitability of	2, "Operations So of primary OSC.	upport Center
16.	If uninhabitable, direct the OSC Coordin equipment/ supplies to the alternate OSC also uninhabitable, direct the OSC Coord area (Control Room/STSC, TSC or EOF).	(Service Buildi.	and TE abde to

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EMERGENCY COORDINATOR RESPONSE TSC and EOF ACTIVATED

Security

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

Corrective Actions

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

Assessment Actions

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

Protective Actions

- 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 COORDINAT TSC and EOF ACT		
Recovery		
 Consult with the Emergency Operations D EPIP-31, "Recovery." 	irector concernin	g implementing
Event Termination	or Reduction	
25. Contact PVNGS Compliance at Ext. to provide written summary authorities. Provide documentation as	within 8 hours t requested.	o offsite
25. Contact PVNGS Compliance at Ext. to provide written summary authorities. Provide documentation as	within 8 hours t requested.	o offsite
to provide written summary	within 8 hours t requested.	o offsite
to provide written summary	within 8 hours t requested.	o offsite
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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

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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.
- 5. 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.

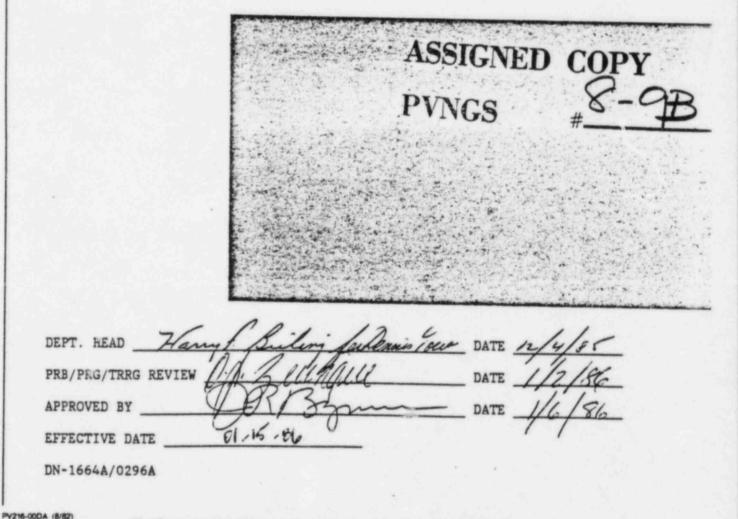
ACTIVATION OF ONSITE EMERGENCY ORGANIZATION

- 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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REVISION HISTORY								
Rev. No.	Date	Revised Pages		Comments				
3	5/10/85	ALL	Revised to	incorporate				
			PCN #01 of	Rev. 2 and to				
			reflect ac	tual policies and				
			practices	of Emergency				
			Planning.					
4	9/18/85	3,4,5,6,9,10,	10, Revised to reflect new rev					
		15,16,17,19,		and to incorporat				
		20,22,23,24,	previous d	rill comments.				
		25,26,28,30,						
		39,42						
5	a-15-81		Deleted Checklists					
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3.0	LIMITATIONS AND PRECAUTIONS	6
4.0	DETAILED PROCEDURE	7
	4.1 Personnel Indoctrination/Responsibilities	7
	4.2 Prerequisites	8
	4.3 Instructions	9

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Appendix	C	-	Security Director Response	16
Appendix	D	•	Technical Engineering Coordinator (Onsite) Response	22
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Appendix	N	-	Computer Support Coordinator (Onsite) Response		40
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Appenidx	P	-	Information Monitor Response		42
Appendix	Q	-	Operations Coordinator Response		43
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1.0 <u>OBJEC</u>	TIVF		
1.1 To Tec	provide instructions for the chnical Support Center (TSC)	activation and o and the Satellite	peration of the TSC (STSC).
2.0 <u>REFER</u>	RENCES		
2.1 Imp	lementing References		
2.1.1	EPIP-03, "NOTIFICATION OF UN	NUSUAL EVENT Impl	ementing Actions
2.1.2	EPIP-04, "ALERT Implementing	g Actions"	
2.1.3	EPIP-05, "SITE AREA EMERGEN	CY Implementing A	ctions"
2.1.4	EPIP-06, "GENERAL EMERGENCY	Implementing Act	ions"
2.1.5	EPIP-14A, "Release Rate Dete	ermination"	
2.1.6	EPIP-14B, "Initial Dose Asso	essment"	
2.1.7	EPIP-15, "Protective Action	Guidelines"	
2.1.8	EPIP-16, "Inplant Surveys an	nd Sampling"	
2.1.9	EPIP-17, "Onsite/Offsite Sur	rveys and Samplin;	s" ·
2.1.10	EPIP-18, "Emergency Exposure	a Guidelines"	
2.1.11	EPIP-20, "Personnal Assembly	and Accountabil:	ity"
2.1.12	EPIP-21, "Search and Rescue"	•	
2.1.13	EPIP-25, "Reentry for Emerge	ancy Operations"	
2.1.14	EPIP-26, "Potassium Iodide ((KI) Administratio	"no
2.1.15.	EPIP-28, "Personnel Monitor:	ing and Decontamin	nation"
2.1.16	EPIP-29, "Area/Equipment Mor	nitoring and Decor	ntamination"

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2.2 Dev 2.2.1 2.2.2	Velopmental References NUREG 0654, Rev. 1, "Criter of Radiological Emergency R Support of Nuclear Power Pl NUREG 0696, Feb. 1981, "Fun Response Facilities"	esponse Plans and ants"	l Preparedness in
2.2.3	6 .		
2.2.4	75AC-92201, "Radiation Expo Control," Rev. 2.	sure Authoriztion	, Permits and
	ANSI N45.2.9-1974 " Feguir		

- 2.2.5 ANSI N45.2.9-1974, "Requirements For Collection, Storage, and Maintenance of Quality Assurance Records for Nuclear Power Plants"
- 2.2.6 7N409.02.00, "Emergency Preparedness Organization and Staffing," Rev. 0.

3.0 LIMITATIONS AND PRECAUTIONS

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

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4.0 DETAILED PROCEDURE

4.1 Personnel Indoctrination/Responsibilities

- 4.1.1 During a NOTIFICATION OF UNUSUAL EVENT, direction and coordination of <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 has 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.

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4.1.3	The functions	performed in t	he TSC are:	
	(1) Manage o	onsite emergenc	y response.	
	(2) Direct o	onsite radiolog	ical protection	activities.
	(3) Direct e	emergency maint	enance.	
	(4) Direct p	ersonnel accou	ntability and s	ite security.
	(5) Direct s	afety and haza	rds control.	
	(6) Perform Room sup		d technical anal	lysis for Contro
	(7) Ferform	reactor analys	is.	
	(8) Provide	emergency I&C	support .	
	(9) Provide	computer and c	hemistry technic	al support.
	(10) Direct I	inplant/Onsite	field monitoring	g activities.
4.1.4	calibrated rad	liological moni	cy kit contains toring equipment and additional	, protective
4.1.5		the satellite	TSC shall take p	

- 4.1.6 Activation of the TSC and augmentation of the Satellite TSC staff by the <u>onsite</u> Emergency Organization shall take place upon declaration of an ALERT or more severe emergency.
- 4.2 Prerequisites
 - 4.2.1 A NOTIFICATION OF UNUSUAL EVENT or higher emergency classification has been made.

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- 4.3 Instructions
 - 4.3.1 Activation of the Satellite TSC
 - 4.3.1.1 The following <u>onshift</u> Emergency Organization personnel shall report to the affected unit Satellite TSC:
 - The affected unit Shift Supervisor or Shift Supervisor of the designated unaffected unit (Onshift Emergency Coordinator) - EPIP-03, "Notification Of Unusual Event Implementing Actions," EPIP-04, "Alert Implementary Actions," EPIP-05, "Site Area Emergency Implementing Actions," EPIP-06, "General Emergency Implementing Actions."
 - (2) Shift Technical Advisor Appendix A, "Shift Technical Advisor Response."
 - (3) Designated Radiation Protection Technician, (Radiation Protection Monitor) - Appendix B, "Radiation Protection Monitor Response."
 - (4) Designated Nuclear Operator (STSC Communicator)
 - 4.3.1.2 The following <u>onsite</u> Emergency Organization personnel shall report to the affected unit Satellite TSC (if required) to relieve their respective onshift counterpart.
 - (1) Radiation Protection Monitor Appendix B.
 - 4.3.1.3 The affected Unit Superintendent (or affected Unit Day Shift Supervisor) shall report to the STSC and assume the position of Operations Advisor. He provides technical and operational advice to the Shift Supervisor, and ensure that information flow is maintained between the TSC and the Control Room as per Appendix J, "Operations Advisor (Onsite) Response."
 - 4.3.2 Preliminary Activation of the Technical Support Center

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

- 4.3.3 Complete Activation of the Technical Support Center
 - 4.3.3.1 All Emergency Organization personnel raporting to the TSC shall retrieve their activation materials from the TSC activation cabinet and establish their assigned work areas as shown in Appendix V.
 - 4.3.3.2 The Technical Engineering Coordinator shall report to the TSC as per Appendix D, "Technical Engineering Coordinator (ONSITE) Response."
 - 4.3.3.3 The Security Director of the <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 onsite Emergency Organization personnel shall report to the TSC and perform their designated function:
 - Emergency Coordinator EPIP-03, EPIP-04, EPIP-05, and EPIP-06, "Emergency Coordinator Response."
 - (2) Technical Engineering Assistant Appendix E, "Technical Engineering Assistant Response."
 - (3) Radiological Protection Coordinator Appendix F, "Radiological Protection Coordinator (Onsite) Response."
 - (4) NRC Liaison Health Physics Appendix G, "NRC Liaison - Health Physics Response."
 - (5) Emergency Maintenance Coordinator Appendix H, "Emergency Maintenance Coordinator (Onsite) Response."

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	(6) Hazards Control C Control Coordinat	oordinator - Apper or (Onsite) Respor	ndix I, "Hazards
	(7) Personnel Resourc "Personnel Resour	es Coordinator - A ces Coordinator (C	Appendix K, Onsite) 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	ica.or - Appendix ite) Response."	O, "Field Team
	(12) Information Monitor Monitor Response.	or - Appendix P, "	Information
	(13) Operations Coordin Coordinator (Onsi	nator - Appendix Q te) Response."	, "Operations
	<pre>(14) NRC Liaison - Oper - Operations Response</pre>	rations - Appendix onse."	R, "NRC Liaison
	(15) Clerical Aide/Star "Clerical Aide/Sta	tus Board Keeper-T atus Board Keeper-	SC - Appendix S, TSC Response."
4.3.4 De	claration of TSC Readines	55	
4.3.4.1	The <u>onsite</u> Emergency Co readiness and notify th facilities that the TSC	ne onsite emergenc	ssure TSC y response
4.3.4.2	Upon activation of the Coordinator shall relie Coordinator of the Emer	eve the onshift Em	ergency

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SHIFT TECHNICAL ADVISOR RESPONSE

data to Control Room personnel.

POSITION FILLED BY: (1) Shift Technical Advisor

Advise and assist the Shift Supervisor on assessing plant conditions. Activate and

ACTIONS

RESPONSIBILITY:

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

monitor SPDS, develop trend data and provide these

*5. Advise the Shift Supervisor of corrective actions.

* Continuing Activity

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX B Page 1 of 3
	CENTER/SATELLITE TSC ATION	REVISION 5	Page 13 of 48
R	ADIATION PROTECTION MON	ITOR RESPONSE	
POSITION FILLED BY:	(1) Radiation Protec	tion Technician f	from affected uni
<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	as. Provide tor concerning action assessment ation upon being monitoring action Coordinato 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 14B.
4.	Inform <u>onshift</u> Emerge projection results an protective actions ar "Protective Action Gu	d assist in deter e necessary per E	mining what
*5.	Direct activities of Teams per EPIP-16, "I and EPIP-17, "Onsite/	onsite/offsite Fi nplant Surveys an	d Sampling." and
*6.	Evaluate need to admin per EPIP-26, "Potassi	nister Potassium um Iodide (KI) Ad	Iodide (KI) ministration."
7.	If OSC is activated. Radiological Assessme	contact OSC Coord nt Line, to ensur	inator, using the that:
	 Sufficient radiol available to OSC Continuous habita rate, contaminati OSC. 	personnel. bility surveys (a	irborne, dose

* 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

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

Onsite and Offsite Surveys and Sampling

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

Protective Action Guidelines

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

Search and Rescue

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

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. SPIP-11	APPENDIX B Page 3 of 3	7
	TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 15 of 48	Is

Activation of Onsite Emergency Organization

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

* Continuing Activity

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PVNGS EMER		PROCEDURE NO. EPIP-11	APPENDIX C Page 1 of 6
	CENTER/SATELLITE TSC ATION	REVISION 5	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 secu accountability, evacu Call out the Emergenc the Emergency Coordin	ation and medical y Organization up	transportation.
IMMEDIATE ACTIONS			
1.	Report to TSC. Upon Staffing Board and es		
2.	If necessary, assign as Security Shift Cap Security Building.	a Security Shift tain. Have him n	Sergeant to act report to the
3.	Inform Access Point G access to only those	uards to limit pr possessing ACADs.	otected area
4.	Call in additional pe emergency classificat Coordinator (EC) by u	ion as directed h	y Emergency
	NOTE		
411 B	e Auto Dialer at PVNGS uilding Security and re ated at the 411 Buildin	quest the system	
5.	If the Auto Dialer Li either the primary, a an Emergency Organiza Emergency Coordinator respondent.	lternate or backu tion position, in	up respondent for form the

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

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-11	APPENDIX C Page 2 of 6	
	TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 17 of 48	15

SECURITY DIRECTOR RESPONSE (Continued)

TSC Access

- Determine need for additional security personnel and contact as necessary.
- Remain at TSC and complete following, as necessary, until relieved by Onsite Security Director.
- 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

- 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 and the Craft Access Point guard 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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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 18 of 48

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

Search and Rescue

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

Onsite Evacuation

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

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX C Page 4 of 6	
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 19 of 48	

SECURITY DIRECTOR RESPONSE (Continued)

- 28. Dispatch Security Force to bus pickup points and gates to assure the following order of evacuation (unless a different order is specified by the Emergency Coordinator):
 - Bechtel parking lots (personal vehicles) via Gate No. 1, 2, and 3
 - (2) ANPP/Bechtel Construction Office buses via Gate No. 3
 - (3) ANPP van pools via Gate No. 1A
 - (4) ANPP parking lots (personal vehicles) via Gate No. 3A
 - (5) ANPP Nuclear Operations buses via Gate No. 3A
 - (6) ANPP Water Reclamation Facility via Gate No. 12
- 29. Contact the Radiological Protection Coordinator and assure that a monitoring/decontamination team has been dispatched to the reassambly area.
- 30. Contact the reassembly area by telephone (Palo Verde Innoversion of Hassayampa Pump Station and inform them of the impending evacuation.
- 31. Contact Assembly Area Supervisor at the following locations to inform them of the impending evacuation signal and the location of bus pickups.
 - (1) ANPP Construction Office ext.
 - (2) Bechtel Emergency Control Center ext.

(Have Bechtel inform Bechtel Fire Team and Bechtel Medical Staff to remain at the Bechtel Safety office and not to evacuate.)

- (3) Admin. Arnex Bldg. Assembly Area ext. 6101
- (4) Water Reclamation Facility e
- (5) Visitor's Center ext.

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SECURITY DIRECTOR RESPONSE (Continued)

- 32. Notify the Emergency Coordinator that preparations have been made and the evaluation signal may be given.
- 33. Dispatch Security Force to routinely check ANPP trailers and buildings in the Acconstruction area outside the protected area to ensure all non-essential personnel have left the premises.
- 34. Request Corporate Site Security by telephone (ext. to routinely check the Visitor's Center, construction offices, Bechtel Warehouse and associated areas.
- 35. Contact the Evacuation Team Leader by radio or telephone (Palo Verde Innovation 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
- Dispatch a Security Force Member to accompany all vehicles.
- 38. Direct Security Access Point by telephone (ext. 6474) to allow entry to protected area of those ANPP personnel or contractors called to PVNGS who have not been previously authorized normal access.

Fire Fighting

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

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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 21 of 48	15

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 ACTIVA	CENTER/SATELLITE TSC TION	REVISION 5	Page 22 of 4
тесн	NICAL ENGINEERING COOR RESPONSE	DINATOR (ONSITE)	
POSITION FILLED BY:	 Manager, OPS Eng OPS Engineering 		
RESPONSIBILITY	Direct engineering and development and relat contact with offsite	ed licensing effo	rts. Maintain
IMMEDIATE ACTIONS		i ter de la com	
1.	Report to TSC upon no sign in on the TSC St	tification. Upon affing Board.	arrival,
2.	Obtain list of equipme emergency.	ent out of commis	sion prior to
*3.	Maintain list of equip emergency.	pment out of comm	ission during
#4 .	Access records manager materials throughout	ment and obtain n emergency.	eeded technical
5.	Ensure that the follow per their appropriate	wing personnel ar appendix:	e responding as
	 Chemistry Coordina Reactor Analyst Computer Support (Technical Engineer 	Coordinator	
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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.

SUBSEQUENT ACTIONS

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

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-11	APPENDIX E Page 1 of 1
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 24 of 48
	TECHNICAL ENGINEERING RESPONSE	ASSISTANT	
POSITION FILLED BY:	(1) Shift Technical	Advisors, off-dut	у
	(2) Other designated appropriate train		
RESPONSIBILITY	Monitor plant system of liaision with Architer status and proposed re	ct-Engineer conce	
IMMEDIATE ACTIONS			
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 Technica lish responsible	1 Engineering area.
*3.	Monitor plant systems	data via EFFDADS	
SUBSEQUENT ACTIONS			
*4.	If so directed, estable Corporate Emergency Co Operations Ringdown co	enter/Engineering	ns link with the Group using the
*5.	Maintain communication NSSS Supplier and requ through the CEC/Engine plant status and recon corrective action.	aired vendor pers	onnel
*6.	Inform Technical Engin recommendations and s	neering Coordinat Ignificant change	or of proposed in plant status.

 Submit logs and status board update sheets to Technical Engineering Coordinator when emergency is cancelled.

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX F Page 1 of 6
	CENTER/SATELLITE TSC	REVISION 5	Page 25 of 48
RADI	OLOGICAL PROTECTION COO RESPONSE	RDINATOR (ONSITE)	
POSITION FILLED BY:	 Manager, Radiolo Radiological Eng 	gical Services ineer	
RESPONSIBILITY:	Relieve Radiation Pro projection and onsite supervision responsib monitoring activities controls. Supervise	/inplant field mon ilities. Direct of and inplant radio	nitoring onsite field plogical
IMMEDIATE ACTIONS			
1.	Report to TSC upon no sign in on the TSC St responsible area.	tification. Upon affing Board and e	arrival, establish
2.	Ensure that the follow	wing are available	
	 Meteorological ov Procedures and for 	erlays and base ma rms	aps
з.	Ensure operational sta	atus of dose calcu	lation computer
4.	Contact Radiation Prot the Radiological Asses Assessment Line and de	ssment Line or Env	: STSC using vironmental
	 Extent of radiolog conditions Location of onsite 		
	<pre>(if dispatched) (3) Status of dose as: recommendations</pre>	sessments and prot	ective action
5.	Determine need for add in dose assessment.	ditional personnel	to assist
6.	Relieve Radiation Prot for control of:	tection Monitor of	responsibility
	 (1) Onsite field monit (2) Inplant radiologic (3) Release rate determination 	cal controls	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	15

 Inform Emergency Coordinator when TSC is ready to conduct dose assessments.

SUBSEQUENT ACTIONS

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Onsite and Inplant Surveys and Sampling

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

Onsite Evacuation

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

* Continuing Activity

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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	15

Emergency Exposure Guidelines

- *16. Authorize doses up to the limits of 10CFR20.
- 17. Provide the Emergency Coordinator with radiological evaluation of situation and conditions requiring emergency exposures in excess of 10CFR20 limits.
- Complete and sign Radiation Exposure Permit (75RP-9ZZ44, "Radiation Exposure Permits") or designate individual to complete this task.
- 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.
- 21. Update and refine dose estimates when time permits.

Potassium Iodide (KI) Administration

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

Search and Rescue

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

* Continuing Activity

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IMPLEMENTING	GENCY PLAN PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX F Page 4 of 6
TECHNICAL SUPPORT ACTIV	CENTER/SATELLITE TSC ATION	REVISION 5	Page 28 of 4
	Personnel Inju	гу	
Prote	following items should action Coordinator, if plogical Support Staff.	possible, or by a	
27.	Determine, with advic priorities for:	e of plant nurse,	the order of
	 (1) Treatment (2) Evacuation (3) E-scontamination (4) Necessity or prot 	ective clothing/r	espiratory
	protection (5) Other priorities conditions.	dictated by radic	logical/hazardo
28.	Request use of onsite	emergency vehicl	.e(s).
29.	Designate an individu ambulance to transpor		
30.	Request Security to consite vehicles are un to ambulance personne	navailable, and t	ance service, i o issue dosimet
31.	Designate individual patient's location.	to meet and accom	mpany ambulance
32.	Determine emergency r "Personnel Injury," A	oute to be used p ppendix D.	er EPIP-22,
33.	Designate one or more G-M		
	accompany patient to	d radiation contr hospital.	ol procedures t
	Personnel and Area/E Monitoring and Decont		
34.	Determine need for penation per EPIP-28, "	rsonnel monitorin	g and decontami

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX F Page 5 of 6
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 29 of 48

35. Determine if crucial areas and/or equipment requires monitoring and decontamination in accordance with EPIP-29, "Area/Equipment Monitoring and Decontamination." 15

- 36. Complete, date, and sign Radiation Exposure Permit.
- Stipulate method of decontamination as described in EPIP-29.

Fire Fighting

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

Reentry for Emergency Operations

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

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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 30 of 48	15

44. Receive reports of exposures in excess of lOCFR20 limits and report to Emergency Coordinator.

45. Update and refine dose estimates when time permits.

Habitability Surveys of TSC

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

* Continuing Activity

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PVNGS EMERO		PROCEDURE NO. EPIP-11	APPENDIX G Page 1 of 1
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 31 of 4
	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 and	arrival, sign in d establish respo	on the msible area
2.	Receive briefing from Coordinator on radiol	the Radiological ogical status.	Protection
*3.	Establish continuous of PBX phone.	communications wi	th the NRC using
4.	Provide initial radio	logical condition	s to the NRC.
SUBSEQUENT ACTIONS			
*5.	Maintain continuous co the NRC Emergency Resp	ommunications wit ponse Team arrive	h the NRC until s onsite.
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* Continuing Activity			

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	RGENCY PLAN	PROCEDURE NO. EPIP-11	APPENDIX H Page 1 of 2
	RT CENTER/SATELLITE TSC IVATION	REVISION 5	Page 32 of 4
EMERGE	NCY MAINTENANCE COORDINAT	COR (ONSITE) RESPO	ONSE
POSITION FILLED BY:	 Manager, Mainten Superintendent M 		
RESPONSIBILITY	Assume responsibility Coordinate repair and directing the OSC Coo Emergency Repair Team	damage control i ordinator to assem	ncluding
IMMEDIATE ACTIONS			
1	. Report to TSC upon no sign in on the TSC St responsible area.	tification. Upon affing Board and	arrival, establish
2	. Establish contact wit dedicated OSC Line.	h the OSC Coordin	ator via the
3	Receive requests for the OSC Coordinator to	all emergency tea o form these team	ms and direct s.
4	Access records manager	ment and obtain n	eeded materials.
5	Determine need for add personnel and inform to Coordinator.	ditional maintena the Personnel Res	nce support ources
SUBSEQUENT ACTIONS			
	Emergency State	us	
*6	Provide periodic updat status of the emergen	tes to the OSC Co cy.	ordinator of the
	Emergency Reentry and	d Repair	
*7.	Assess operation of pletectrical, and I&C ec	lant systems incl quipment.	uding mechanical
*8.		with repair, maintenance, and deployment of Emerge	

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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 33 of 48	115

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 Cooldinator 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.

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-11	APPENDIX I Page 1 of 1
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 34 of 4
HAZAF	DS CONTROL COORDINATOR	(ONSITE) RESPONSE	
POSITION FILLED BY:	 Health and Safet Safety Engineer 	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 Coordinator through t Coordinator.	Emergency Coordin	ator and OSC
3.	Assist Radiological P ALARA considerations.	rotection Coordin	ator with
SUBSEQUENT ACTIONS			
	Search and Res	cue	한 가영화학
4.	Request the Emergency Maintenance Coordinator to direct the OSC Coordinator to assemble and dispatch Search and Rescue Teams,		
5.	Complete Search and Rescue information sheet in EPIP-21, "Search and Rescue," Appendix D.		
6.	Notify Emergency Coor rescue efforts.	dinator of result	s of search and
	Fire Fightin	8	
7.	Provide technical adv an emergency.	ice to Fire Team	Leader during
		* * *	

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		PROCEDURE NO. EPIP-11 REVISION 5	APPENDIX J Page 1 of 1 Page 35 of 48	
POSITION FILLED BY:	 (1) Operations Super (2) Operations Day S 	intendent of affe hift Supervisor of	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 copment of	
IMMEDIATE ACTIONS				
1.	Report to STSC upon n	otification.		
SUBSEQUENT ACTIONS				
	STSC Activation/Op	eration		
*2.	Provide technical and operational advice to Shift Supervisor and Emergency Coordinator, as necessary.			
*3.	Analyze conditions using SPDS and CRACS and provide guidance to Emergency Coordinator and Operations personnel.			
*4.	Establish communications with the Operations Coordinator (Onsite) in the TSC.			
*5.	Assist in developing of for conducting emerger	emergency procedu ncy operations.	res as necessary	
	Emergency Classific	cation		
*6.	Advise Emergency Coord Coordinator (Onsite) a classification of emer EMERGENCY or GENERAL E	as to plant statu reency for ALERT.	s and re-	
· · · · · ·				

* Continuing Activity

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-11	APPENDIX K Page 1 of 2
	ORT CENTER/SATELLITE TSC TIVATION	REVISION 5	2age 36 of 48
	PERSONNEL RESOURCES COORD RESPONSE	DINATOR (ONSITE)	
POSITION FILLED BY	: (1) Adminstrative Se (2) Manager, Office	ervices Manager Services	
RESPONSIBILITY	Relieve Security Dive callout of additional hour emergency respon OSC Coordinator in me OSC. Serve as primary	emergency person se organization s seting the manning	nel. Plan for 24 taffing. Assist requirements of
IMMEDIATE ACTIONS			
	Report to TSC upon no sign in on the TSC St responsible area.	tification. Upon affing Board and o	arrival, establish
2	Assist Security Direct EPIP-20, "Personnel A	tor with accountal ssembly and Account	bility per mtability."
3	. Develop 24-hour manni staffing as required.	ng requirements an	nd augment
4	Assess and assist OSC manning requirements	Coordinator in me of the OSC.	seting the
5	Assign one Clerical A to the Technical Engi the status boards.	ide/Status Board M neering Coordinate	Keeper to report or and maintain
SUBSEQUENT ACTIONS			
	Personnel Assembly and A	ccountability	
6	Assume role of primar	y Assembly Area Su	pervisor for TSC.
7	Record names and badg reported to TSC on In per EPIP-20.	e numbers of perso dividual Accountab	onnel who have oility Sheet
8	Contact Security Shif of personnel and badg	t Captain and info e numbers accounte	d for.

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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION	REVISION 5	Page 37 of 48	15

PERSONNEL RESOURCES COORDINATOR (ONSITE) RESPONSE (Continued)

Security

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

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	CENTER/SATELLITE TSC ATION	REVISION 5	Page 38 of 48
	CHEMISTRY COORDINATO RESPONSE	R (ONSITE)	
POSITION FILLED BY:	 Manager, Chemica Chemist 	l Services	
RESPONSIBILITY :	Provide evaluation of to aid in diagnosing release potentials. analyses for evaluation	reactor core cond Interpret results	litions and of chemical
IMMEDIATE ACTIONS			전에 가지 않는 것
1.	Report to TSC upon not sign in on the TSC Sta responsible area.	tification. Upor affing Board and	arrival, establish
2.	Contact <u>onshift</u> Chemis phone line and obtain	stry Technician u pertinent chemis	sing regular try plant data.
3.	Determine the need for personnel, and inform Coordinator.	r additional chem the Technical En	istry support gineering
4.	Confer with Technical determiné needs concer	Engineering Coor ming plant chemi	dinator to stry data.
SUBSEQUENT ACTIONS			
*5.	Evaluate coolant samp results of chemical ar Engineering Coordinate	alyses and assis	t Technical
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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 39 of 48
	REACTOR ANALYST (RESPONSE	(ONSITE)	
POSITION FILLED BY:	(1) Supervisor, Read(2) Lead Reactor Eng	tor Engineering	
RESPONSIBILITY:	Perform detailed anal transfer parameters. evaluate the integrit	Assess reactor of	core status and
IMMEDIATE ACTIONS			
1.	Report to TSC upon no sign in on the TSC St responsible area.	tification. Upor affing Board and	arrival, establish
2.	Assess core parameter	s.	
3.	Access records manage materials.	ments and obtain	needed technical
· 4.	Determine need for ada and inform the Techni	ditional reactor cal Engineering C	support personne cordinator.
5.	Inform Technical Engin recommendations for op	neering Coordinat peration.	or of
SUBSEQUENT ACTION			
*6.	Continue to conduct an the integrity of plant Engineering Coordinate	t systems and ass	ist Technical
*7	Contact Corporate Anal needed by normal phone	lytical Support (Deer Valley) as
Continuing Activity			

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TECHNICAL SUPPORT ACTIV	CENTER/SATELLITE TSC	REVISION 5	Page 40 of 48
c	OMPUTER SUPPORT COORDIN RESPONSE	MATOR (ONSITE)	
POSITION FILLED BY:	 Supervisor, Hard Computer Engineer 	ware Maintenance r	
RESPONSIBILITY:	Provide continuous su plant conditions and	pport of analyses dose assessment.	pertaining to
IMMEDIATE ACTIONS			
1.	Report to TSC upon no sign in on the TSC St responsible area.	tification. Upon affing Board and	arrival, establish
2.	Access CRACS and SPDS	as requested.	
3.	Determine need for ad and inform the Techni	ditional computer cal Engineering Co	support personnel oordinator.
SUBSEQUENT ACTIONS			
*4.	Provide computer supp	ort to TSC staff,	when requested.
* Continuing Activity			

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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 41 of 48
	FIELD TEAM COMMUNICAT RESPONSE	OR (ONSITE)	
OSITION FILLED BY:	(1) Radiation Protec	tion Section Stat	f Member
ESPONSIBILITY	Maintain direct radio Inplant/Onsite Field Radiological Protections.	Monitoring Teams.	Assist the
MMEDIATE ACTIONS		*	
1.	Report to TSC upon no sign in on the TSC St responsible area.	tification. Upon affing Board and	arrival, establish
2.	Report to Radiologica obtain information on Monitoring Teams.	l Protection Coor deployment of In	dinator and aplant/Onsite
3.	Ensure that radio commo operable.	munications equip	ment is
4.	Synchronize TSC clocks	s with affected u	nit clock.
UBSEQUENT ACTIONS			
*5.	Maintain communication Monitoring Teams via		
*6.	Assist Radiological Pr performance of dose as necessary.	rotection Coordin ssessment calcula	ator in tions as
		4	

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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 42 of 48
	INFORMATION MONITOR	RESPONSE	
POSITION FILLED BY:	 Compliance Super Compliance Engin 	visor eer	
RESPONSIBILITY:	Shall monitor communi Coordinator, Operatio Advisor and periodica updates to the Onsite	ns Coordinator, a lly provide emerg	and the Operations gency status
IMMEDIATE ACTIONS			
1.	Report to TSC. Upon Staffing Board and es	arrival, sign in tablish responsib	on TSC le area.
2.	Establish communication Coordinator, Operation Operations Advisor.	ons link with the ns Coordinator an	Emergency d the
3.	If so directed by the a Site Wide P.A. anno activated using the	uncement that the	nator, make TSC is
*4.	Provide periodic emer, announcements to the ((OSC, CR, STSC, etc.)	Onsite Emergency	tes via P.A. Organization
*5.	Verify accuracy of in: Status Board.	formation posted	on TSC Event
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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 43 of 48
OP	PERATIONS COORDINATOR (OP	NSITE) RESPONSE	
POSITION FILLED BY:	 Operations Super: unaffected unit. Operations Day St unaffected unit. 		
RESPONSIBILITY:	Receive technical and Operations Advisor and between the TSC and Co the Emergency Coordina	i maintain the flontrol Room. Rep	ow of information
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
	Receive data from the.	Operations Advis	or (Onsite) and
*3.	report it to the Emerg	gency Coordinator	•
*3.	report it to the Emerg	ency Coordinator	

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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 44 of 48
	NRC LIAISION - OPERATI	ONS RESPONSE	
POSITION FILLED BY:	(1) License Training	Instructor	
ESPONSIBILITY:	Assume responsibility with the NRC from STS Emergency Response Te	C Communicator un	til the NRC
MMEDIATE ACTIONS			
1.	Report to TSC. Upon Staffing Board and es		
2.	Receive briefing from plant status.	Operations Coord	linator on
3.	Contact STSC Communic communications status		NRC -
4.	Assume continuous com Communicator using th	munications with e ENS phone.	NRC from STSC
UBSEQUENT ACTION			
5.	Maintain continuous c NRC Response Team arr		h NRC until

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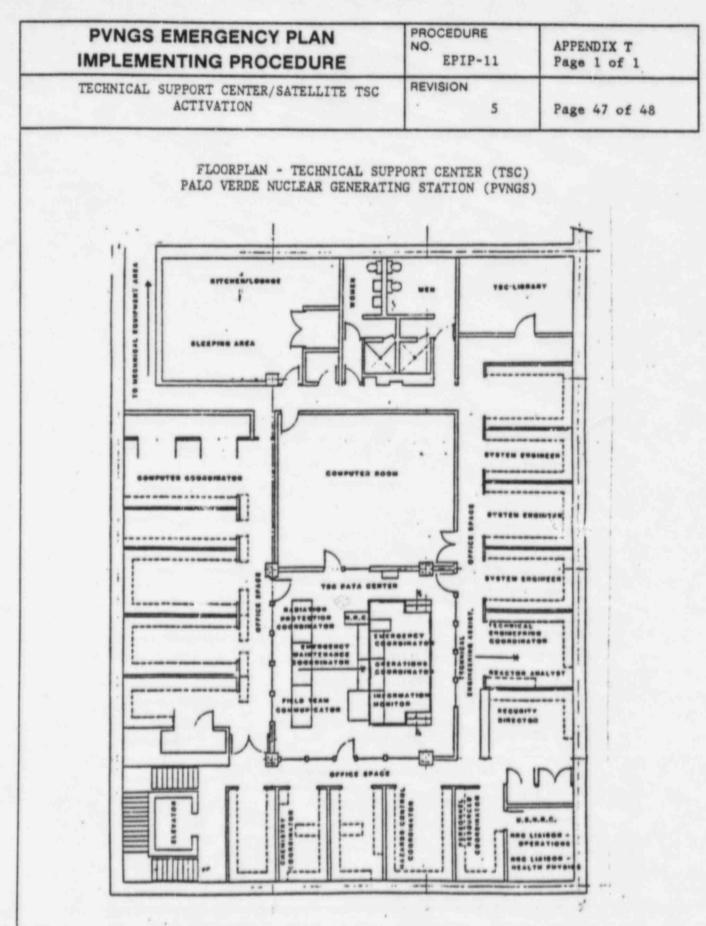
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IMPLEMENTING PROCEDURE			Page 1 of 2
TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION 5	Page 45 of 48
CI	ERICAL AIDE/STATUS BOA RESPONSE	RD KEEPER-TSC	
POSITION FILLED BY:	 Designated perso with appropriate training. 		
RESPONSIBILITY:	Maintain record of em taken by ANPP Emergen status board. Record emergency.	cy Organization o	n
IMMEDIATE ACTIONS:			
1.	Report to TSC upon no on the TSC Staffing B		arrival, sign i
2.	Receive briefing from and establish respons		ces Coordinator
3.	Report readiness to P	ersonnel Resource	s Coordinator.
4.	Receive assignment to status from Technical	maintain status Engineering Coor	boards. Receive dinator
SUBSEQUENT ACTIONS :			
	Status Loard	<u>s</u>	
	N.IE .		*
	time recorded on state ather than posting time		t
*5.	Record status of emer; Engineering Coordinate	gency as expresse or.	d by Technical
	Recovery		
6.	Submit check list to b upon cancellation of o	Personnel Resourc emergency.	es Coordinator

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TECHNICAL SUPPORT CENTER/SATELLITE TSC ACTIVATION		REVISION	5	Page 46 of 48
CLERICA	AL AIDE/STATUS BOAR	D KEEPER -	TSC	
	EVENT STATUS BOA			
			*	
	EVENT STA	TUS		
	MERGENCY CLASS:_	· · · ·		TIME:
Time: Date:	Time:Dete		7ime:	Dete:
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Ha Tossa Lata				· · · · · · · · · · · · · · · · · · ·
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Bubcool Margin 7 Boron PPu noperable Equipment T	Where	Time: Heat Removal Reactor Bloam Genera Aux, Feed Wa	Coolant Pum O Cooling Tri lor Level, %V ter to SG, Of	02 261A_10_2A_20 26 271_2 271_2
Bubcool Margin 7 Boron PPu noperable Equipment T	Where	Time: Heat Removal Reactor Broam General	Consist Parm Cooling Tro or Level, 59 ter to SG, GF Pumps Runni	02 061A102A20 041A0 70A0 12 12 12 12 12 12



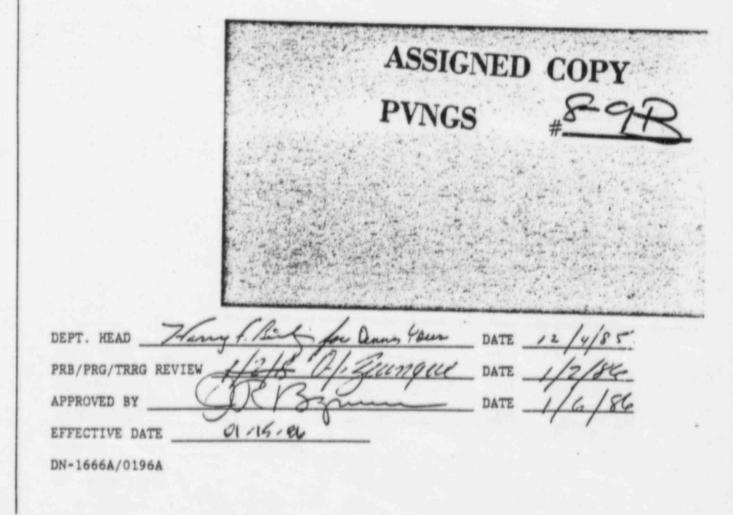
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		STORY		
Rev. No.	Date	Revised Pages		Comments
4	<u>11</u> -1 <u>1-85</u>	3,4,5,7,8,12,	To incorpo	orate PCN #01 of
<u></u>		15,16	Rev. 3 and	to add a new
			checklist	for the Repair
			Coord.	
5	01-15-186	3,4,5,7,8,10,	Deleted Che	ecklists
		11,12,13,15,	Appendices	A and C
		16		
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2.0	REFERENCES	4
3.0	LIMITATIONS AND PRECAUTIONS	5
4.0	DETAILED PROCEDURE	5
	 4.1 Personnel Indoctrination/Responsibilities 4.2 Prerequisites 4.3 Instructions 	5 7 7

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Appendix	B	•	OSC Habitability Criteria	14
Appendix	С	*	Repairs Coordinator Response	15

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1.0 OBJECTIVE

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This procedure provides inst-uctions for the activation of the Operations Support Center (CSC) and alternate OSC (Service Building).

2.0 REFERENCES

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- 2.1 Implementing References
 - 2.1.1 EPIP-04, "ALERT Implementing Actions"
 - 2.1.2 EPIF-05, "SITE AREA EMERGENCY Implementing Actions"
 - 2.1.3 EPIF-06, "GENERAL EMERGENCY Implementing Actions"
 - 2.1.4 EPIF-18, "Emergency Exposure Guidelines"
 - 2.1.5 EPIP-20, "Personnel Assembly and Accountability"
 - 2.1.6 EPIF-21, "Search and Rescue"
 - 2.1.7 EPIP-25, "Reentry for Emergency Operations"
 - 2.1.8 EPIP-29, "Area/Equipment Monitoring and Decontamination"
 - 2.1.9 9N219.05.00, "Document/Record Turnover Control"

2.2 Developmental References

- 2.2.1 NUREG 0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- 2.2.2 NUREG 0696, Feb. 1981, "Functional Criteria for Emergency Response Facilities."
- 2.2.3 PVNGS Emergency Plan, Rev. 6.
- 2.2.4 10CFR20, "Standards for Protection Against Radiation," 1983.
- 2.2.5 ANSI N45.2.9 1974, "Requirements For Collection, Storage, and Maintenance of Quality Assurance Records for Nuclear Power Plants."

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3.0 LIMITATIONS AND PRECAUTIONS

NOTE

In the <u>onshift</u> emergency organization, the Radiation Protection Monitor at the STSC determines the need to relocate the OSC staff and so informs the Emergency Coordinator.

- 3.1 Appendix B lists the habitability criteria established for the OSC. Habitability checks shall be conducted upon initial manning and as required thereafter. The results of the survey are to be transmitted to the Emergency Coordinator, via the Radiological Protection Coordinator, who determines the need to relocate personnel to the alternate OSC (Service Building).
- 3.2 If the Service Building is also uninhabitable, the Emergency Coordinator shall direct OSC personnel to report to one of the protected facilities (Control Room/Satellite Technical Support Center, Technical Support Center or Emergency Operations Facility).
- 3.3 At a NOTIFICATION OF UNUSUAL EVENT the OSC is partially activated to provide manpower resources for Emergency Teams, (e.g., Search and Rescue, Emergency Repair). If the E.C./S.S. determines the OSC is not required to support the emergency response during a NOTIFICATION OF UNUSUAL EVENT classification, he may deactivate the OSC and allow the response personnel to return to their normal work stations.
- 3.4 Requests for teams to be dispatched shall be channeled through E.C./S.S in the Onshift Emergency Organization or the Emergency Maintenance Coordinator in the Onsite Emergency Organization.
- 3.5 The OSC Coordinator and Repairs Coordinator shall forward his checklist and other written documentation along with any OSC team checklist and other written documentation to the Emergency Planning Group after event termination for forwarding to DDC in accordance with 9N219.05.00, "Document/Record Turnover Control."
- 4.0 DETAILED PROCEDURE
 - 4.1 Personnel Indoctrination/Responsibilities

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4.1.1	The OSC is the assembly an personnel pooled for emerginated emergency response the OSC if not specificall emergency position.	gency response assi onse personnel shal	gnments. 1 report to
4.1.2	The OSC Coordinator is res	sponsible for:	
	(1) Activating the OSC.		
	(2) Organizing emergency ;	personnel who report	t to the OSC.
	(3) Ensuring emergency per dispatch.	rsonnel are availab	le for
	(4) Maintaining a communic Maintenance Coordinate	ations link with the	he Emergency
4.1.3	The function of the OSC re SITE AREA EMERGENCY or GEN Personnel/equipment augment specific circumstances.	VERAL EMERGENCY clas	sification.
4.1.4	The OSC emergency position responsible for them inclu	and personnel pr ide:	imarily
	(1) OSC Coordinator -I&C S	Shift Maintenance Pe	ersonnel.
	(2) Field Monitoring Teams plant/onsite/offsite)	and Radiological : - Radiation Protect	Surveys (in tion Personnel.
	(3) Radiation Protection 7 Dosimetry/Decontaminat Control) - Radiation H	ion/Access Control.	Reentry
	(4) Repair Toams (Maintena Maintenance Staff.	ance/Repair/Damage (Control) -
	(5) Chemistry Sampling/Ana	alysis - Chemistry 1	Personnel.
	(6) Search and Rescue Team personnel with appropr	ns/First-Aid Teams riate training.	- Designated
	(7) Fire Team - Designated training.	i personnel with app	propriate

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4.1.5	 Repairs Coordinator - Mech (Onsite Emergency Organization) (1) Ensuring Emergency Repaind dispatched. (2) Coordinating the needs Repair Teams in the first first the firs	ation) is responsib pair Teams are prop and requirements held. tions with both the or and the Emergence cdinator with the d	ole for: erly briefed of Emergency Emergency by Repair Teams. direction of
4.1.6	the OSC as determined The primary OSC is located affected unit's Auxiliary	in the lunchroom	
4.1.7	The OSC is equipped with d communication with the TSC	ledicated telephone C, Control Room, ST	lines for SC and EOF.
4.1.8	The alternate OSC is locat	ed in the Service	Building, OSC

- personnel shall relocate to this area if the Emergency Coordinator determines that this action is necessary.
- 4.1.9 Emergency radiological monitoring equipment, first aid supplies, decontamination supplies, protective clothing, protective breathing apparatus, field communications equipment, and portable lighting are stored in or adjacent to the OSC.

4.2 Prerequisites

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- 4.2.1 An ALERT or more severe emergency has been declared and EPIP-04, "ALERT Implementing Actions," EPIP-05, "SITE AREA EMERGENCY Implementing Actions," or EPIP-06, "GENERAL EMERGENCY Implementing Actions," is being implemented.
- 4.3 Instructions

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- 4.3.1 Activation of the Primary OSC
 - 4.3.1.1 The I&C Shift Maintenance Foreman shall report to the affected unit OSC as per Appendix A, "OSC Coordinator (Onshift and Onsite) Response"

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4.3.1.2	The following persons follow the directions	ael shall report to of the OSC Coordin	the OSC and ator:	
	(1) Maintenance Staff			
1	(2) Radiation Protect	ion Personnel		
	(3) Chemistry Personn	nel		
	(4) Computer Personne	1		
4.3.1.3	The OSC Coordinator s Protection, Chemistry contact their immedia emergency situation is (Technicians) that is	y and Maintenance Te the Supervisor and d including any additi	chnicians to iscuss the	
4.3.1.4	The OSC Coordinator s personnel to establis maintain the cleanlin	sh a radiological co	on Protection introl point to	
4.3.1.5	If any additional man Coordinator shall cal in the Onshift Emerge Resources Coordinator	Il Security at ext. ency Organization or at the TSC in the	the Personnel Onsite	
	Emergency Organization technicians be manual or as otherwise direct	lly notified to repo	uired ort to the OSC	
4.3.1.6	The Mechanical Mainter to the affected unit Coordinator Response.	OSC as per Appendix	shall report C, "Repairs	
4.3.2 Ac	tivation of the Alterna	ate OSC		
4.3.2.1	In the event the prim (see Appendix B for h Emergency Coordinator evacuate/report to th Building).	abitability criter: c shall direct OSC ;	a), the personnel to	
4.3.2.2	The OSC Coordinator :	shall ensure the tr	insport of	

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4.3.2.3 In the event the alternate OSC becomes uninhabitable (see Appendix B for habitability criteria), OSC personnel shall report to one of the protected facilities (i.e., Control Room/Satellite Technical Support Center, Technical Support Center, Emergency Operations Facility) per the Emergency Coordinator's direction.

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OPERATIONS SUPPORT CENTER ACTIVATION	REVISION 5	Page 10 of 16
OSC COORDINATOR (ONS RESPON		
POSITION FILLED BY: (1) I & C Shift	Maintenance Personr	nel
manpower and ec	Coordinate, assemble quipment resources av sembly Area Supervis	vailable at OSC.
IMMEDIATE ACTIONS .		
1. Report to OSC upon notificati	ion.	
2. Ensure that communication dev	vices are operable.	
NOT	TE	
Personnel accountability Supervisor/Emergency Coo an ALERT. It is mandato Emergency or higher.	ordinator's discretio	on at
 Conduct personnel accountabil and Accountability." 	lity per EPIP-20, "Pe	ersonnel Assembly
(1) Obtain badge numbers reporting to OSC and Sheet.	and names of emerger complete Individual	acy personnel Accountability
(2) Inform Security Direct of initiation of sign	ctor of accountabilit	ty within 20 minute
 Ensure that OSC emergency equina a state of readiness. 	ipment and supplies	are available and
 Ensure that OSC reporting per Staffing Board. 	rsonnel have signed i	in on the OSC
 Direct Radiation Protection, to contact their immediate Su situation including any addit 	pervisors and discus	is the emergency
 Ensure that a radiological concerning of the OSC. 	ontrol point is estab	olished to maintain
 Report OSC readiness to Emerg using a dedicated phone line 	gency Coordinator at or at the TSC (Onsis	STSC/CR (Onshift) te) using the TSC

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dedicated phone line.

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ALTERNATE OSC

- 9. If the primary OSC is uninhabitable, relocate OSC staff and necessary equipment to the alternate OSC, as directed by the Emergency Coordinator.
 - (1) Service Building is the first alternate.
 - (2) If the Service Building is also uninhabitable, relocate to one of the protected facilities (i.e., STSC/CR, TSC, EOF).

SEARCH AND RESCUE

- Upon direction from Emergency Maintenance Coordinator, form Search and Rescue Team(s) per EPIP-21, "Search and Rescue."
 - (1) Each team consists of 2 members.
 - (2) Assign one member as Team Leader.
- 11. Obtain information from the Emergency Coordinator concerning identification and location of missing persons.
- 12. Provide Team(s) with search and rescue data:
 - I.D. of missing person(s).
 - (2) Last known location (check REP if one was issued).
 - (3) Job the individual was working.
 - (4) Pertinent details of plant status.
- 13. Determine radiation levels and stay times with Radiation Protection Monitor (STSC) using the Radiological line or with Radiological Protection Coordinator (TSC, when activated) also using the Radiological line.
- 14. Inform the Team(s) of radiation exposure limits, if necessary, in accordance with EPIP-18, "Emergency Exposure Guidelines."

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- Direct Team(s) to notify Hazards Control Coordinator byradio (at TSC when activated) of location and/or removal of missing personnel.
- Recall Team via radio when search and rescue operations are no longer necessary.
- Inform the Hazards Control Coordinator at the TSC using the TSC dedicated phone line when Team has concluded its activities and returned to OSC.

RE-ENTRY FOR EMERGENCY OPERATIONS

18. Direct the Repairs Coordinator to Deploy Emergency Repair Teams, per EPIP-25, "Re-antry for Emergency Operations," upon direction from Control Room (Onshift) or the Emergency Maintenance Cordinator in the TSC (Onsite).

AREA/EQUIPMENT MONITORING AND DECONTAMINATION

- Deploy Decontamination Teams, per EPIP-29, "Area/Equipment Monitoring and Decontamination," upon guidance from Control Room (Onshift) or the Emergency Maintenance Coordinator in the TSC (Onsite).
 - Team shall consist of one Radiation Protection Technician and necessary Chemical, Mechanical, Electrical, or I & C Technicians.

PERSONNEL

*20. Coordinate OSC personnel requirements with the Personnel Resources Coordinator at the TSC, using the TSC dedicated phone line.

* Continuing Activity

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LOG

*21. Maintain an Emergency Action Log throughout emergency.

* Continuing Activity

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OSC HABITABILITY CRITERIA

The following limits should be considered upper limit habitability criteria.

WHOLE BO	DY DOSE RATE	AIRBO		1	EVAC	NSIDER CUATION ITHIN	
2-10	mrem/hour	1-4	x	MPC	48	hours	
10-50	mrea/hour	4-20	х	MPC	10	hours	
50-100	mrem/hour	20-40	x	MPC	5	hours	
100-500	mrem/hour	40-200	x	MPC		hour	
> 500	mrem/hour	> 200				ediately	

Where MPC is the maximum permissible concentration for areas as defined in Column 1, Table I, Appendix B to 10CFR20. This calculation will allow 200 MPC hours which conservatively limits internal exposure. This criteria is based on personnel not wearing respiratory equipment.

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REPAIRS COORDINATOR RESPONSE

POSITION FILLED BY:

Mechanical Shift Maintenance Foreman.

RESPONSIBILITY:

Ensures that Maintenance Technicians and Emergency Repair Teams are dispatched at the direction of the Emergency Maintenance Coordinator.

IMMEDIATE ACTIONS:

- 1. Report to the OSC upon notification and sign in.
- 2. Assist OSC Coordinator with OSC activation as required.
- Establish communications with the Emergency Maintenance Coordinator when TSC is activated.

SUBSEQUENT ACTIONS

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- 4. Deploy Emergency Repair Teams, per EPIP-25, "Re-entry for Emergency Operations," upon direction from Control Room (Onshift) or the Emergency Maintenance Coordinator in the TSC (Onsite) or OSC Coordinator.
 - (1) Team shall consist of at least two Maintenance Technicians and, if radiological conditions necessitate, assign a Radiation Protection Technician to the team.
 - (2) Designate one member the Team Leader.

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OPERA	ATIONS SUPPORT CENTER ACTIVATION	REVISION 5	Page 16 of 16
5.	REPAIRS COORDINAT Receive information from Emerge Maintenance Coordinator and/or on: (1) Work to be performed. (2) Number or people requi (3) Equipment needed.	gency Coordinator, r Radiologícal Prot	Emergency ection Coordinator
	(4) Radiation conditions, i	f known.	
*6.	Receive 1/2 hour reports from	Team Leader via po	rtable radio.
*7.	Receive report from Team Leade completed in allotted stay tim	r upon leaving if e or allotted dose	task cannot be
*8.	Maintain an Emergency Action L		

*Continuing Activity

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	신간학	REVISION	HISTORY		
Rev. No.	Date	Revised Pag	es	10,756	Comments
3	05-01-85	A11	200	Total Revi	sion Incorporating
	<u></u>		<u>_</u>	EPIP's 39-	52
4	09-18-85	5, 6, 13, 1	4,	Incorporat	ion of procedure
		15, 17, 22,		drill comm	ents. New phone
		23, 24, 45	2.00	numbers an	d editorial
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5	01.15-86			Deleted C	hecklists.
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4.0	DETAILED PROCEDURE	6
	 4.1 Personnel Indoctrination/Responsibilities 4.2 Prerequisites 4.3 Instructions 	6 7 7

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Appendix	C	-	Emergency Operations Director Response	12
Appendix	D	-	Administrative and Logistics Coordinator Response	16
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1.0 <u>OBJE</u>	CTIVE		
	provide instructions for t erations Facility (EOF).	he activation of th	e Emergency
S. 1. 2			
2.0 <u>REFE</u>	RENCES		
2.1 Im	plementing References	-	
2.1.1	EPIP-04, "ALERT Implement	ing Action"	
2.1.2	EPIP-05, "SITE AREA EMERG	ENCY Implementing A	ctions"
2.1.3	EPIP-06, "GENERAL EMERGEN	CY Implementing Act	ions"
2.1.4	EPIP-14A, "Release Rate D	etermination"	
2.1.5	EPIP-14B, "Initial Dose A	ssessment"	
2.1.6	EPIP-14C, "Continuing Dos	e Assessment"	
2.1.7	EPIP-31, "Recovery"		
2.1.8	EPIP-33, "Offsite Assista	nce"	
2.1.9	9N219.05.00, "Document Re	cord Turnover Contr	01"
2.2 De	velopmental References		
2.2.1	NUREG-0654, Rev. 1, "Crita Evaluation of Radiologica Preparedness in Support of	1 Emergency Respons	e Plans and
2.2.2	NUREG 0696, Feb. 1981, "Fo Response Facilities."	nctional Criteria for Emergency	
2.2.3	PVNGS Emergency Plan, Rev	. 6.	
2.2.4	ANSI N45.2.9 - 1974, "Req Storage, and Maintenance Nuclear Power Plants."	uirements for the C of Quality Assuranc	ollection, e Records for

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3.0 LIMITATIONS AND PRECAUTIONS

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

4.0 DETAILED PROCEDURE

- 4.1 Personnel Indoctrination/Responsibilities
 - 4.1.1 The EOF is the focal point for coordination of onsite and offsite emergency response activities. Management and technical personnel assigned to the EOF are responsible for protective action recommendations, liaison with offsite governmental organizations and response facilities, and overall management of the PVNGS emergency organization.
 - 4.1.2 During an ALERT, or more severe accident, overall command and coordination of ANPP emergency operations shall be exercised by the Emergency Operations Director at the EOF. He shall provide direction and support for inplant emergency response actions to the Emergency Coordinator, and coordinate corporate support through the CEC. In addition, he shall communicate plant status updates and radiological release data to the Joint ENC and the CEC.

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			NCY PLAN	PROCEDURE NO. EPIP-13			
			DPERATIONS TTIVATION	REVISION 5	Page 7 of 50		
	4.1.3	Function the Eme	onal assignments at argency Operations	the EOF, in additi Director are:	on to those of		
	4.1.3	3.1 Rad	liological Analysis				
		met wit	eorological inform	source-term, release and mation from the TSC. Interface tives to recommend protective pulation-at-risk.			
	4.1.3	3.2 Tec	hnical Liaison				
		per	Function as a primary interface with NRC/state/county personnel stationed in the EOF to provide updates on the status of the reactor and unit.				
1.2.5	4.1.3	3.3 Adm	Administrative and Logistics Support Provide needed technical documents, communications and analytical equipment, clerical assistance, transportation/housing support and security for EOF.				
		ana					
1.5	4.1.3	.4 Pub	lic Information Su	pport			
		Gat	her necessary info sequent release to	rmation and transmit the media from the	for Joint ENC.		
	4.1.4	The EOF severe	shall be activate emergency classifi	d and manned for an cation.	ALERT or more		
1.188	4.2 Pre	requisit	es		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
	4.2.1	and pro EPIP-05	cedure EPIP-04, "A , "SITE AREA EMERG , "GENERAL EMERGEN	evel emergency has h LERT Implementing Ac ENCY Implementing Act: CY Implementing Act:	ctions,"		
	4.3 Ins	truction	s				
	4.3.1 Activation of the EOF						
	4.3.1	Mem The ins res	ber to the EOF to Security Force Mer ide the Annex Build	shall assign a Securic lock the door by stand mber shall then stand ding basement air lo o the EOF only to an andix P.	airway #2. tion himself bock to		
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NOTE

Each individual listed is responsible for set up of their working area of the EOF. This includes phone hook-up (if necessary) and breaking out from the storage closet all required material to function properly.

4.3.1.2 The following Offsite Emergency Organization personnel shall report to the EOF:

- Emergency Operations Director Appendix C, "Emergency Operations Director Response."
- (2) Administration and Logistics Coordinator -Appendix D, "Administration and Logistics Coordinator Response."
- (3) Radiological Assessment Coordinator Appendix E, "Radiological Assessment Coordinator Response."
- (4) Technical Analysis Coordinator Appendix F, "Technical Analysis Coordinator Response."
- (5) Radiological Assessment Communicator Appendix G, "Radiological Assessment Communicator Response."
- (6) Government Liaison Engineer Appendix H, "Government Liaison Engineer Response."
- (7) EOF Contact Appendix I, "EOF Contact Response."
- (8) Logistics Communicator Appendix J, "Logistics Communicator Response."
- (9) Security Coordinator Appendix K, "Security Coordinator Response."
- (10) Dosimetry Clerk Appendix L, "Dosimetry Clerk Response and TLD Log."
- (11) Clerical Aide/Status Board Keeper Appendix M, "Clerical Aide/Status Board Keeper-EOF Response."
- (12) R.P. Support Staff To Be Filled By Training Personnel.

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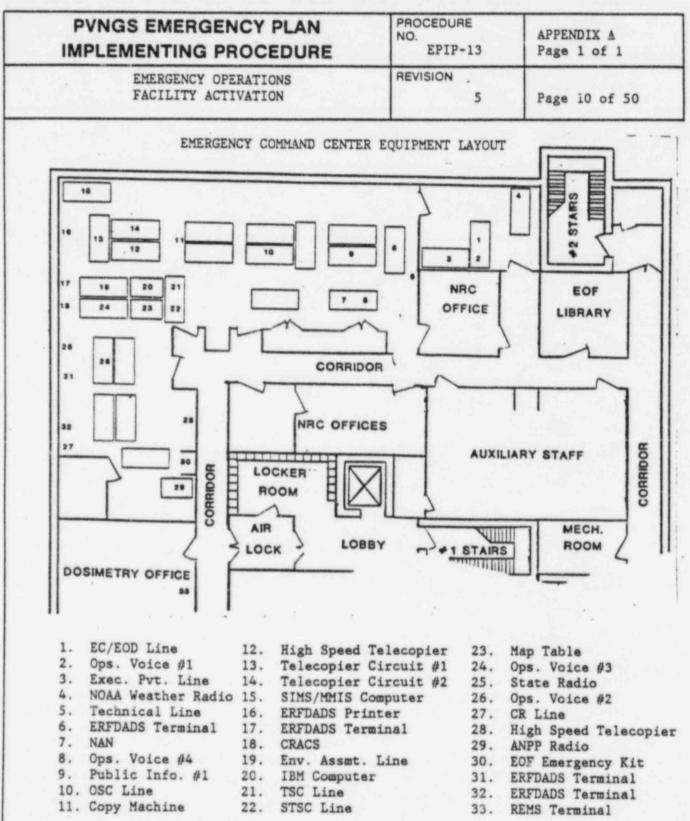
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- 4.3.1.3 The Offsite Technical Representative shall report to the Technical Operations Center (TOC) at the State Emergency Operations Center (EOC) as per Appendix N.
- 4.3.1.4 The JENC Technical Advisor shall report to the Joint - Emergency News Center as per Appendix O.
- 4.3.1.5 Appendices A, B and Q are provided to show EOF layout and floorplan.
- 4.3.2 Declaration of EOF Readiness
 - 4.3.2.1 Upon completion of EOF staffing and readiness checks, the Emergency Operations Director shall contact the Emergency Coordinator, the Corporate Emergency Center (if activated) and the Joint Emergency News Center and inform them that the EOF is operational.

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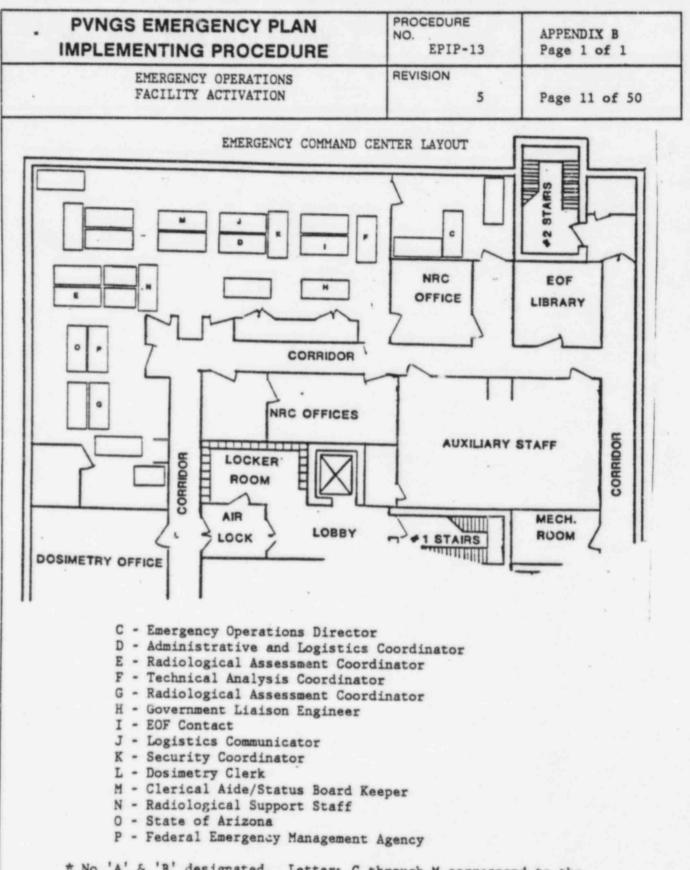
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* No 'A' & 'B' designated. Letters C through M correspond to the position appendices of this procedure.

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EMERGENCY OPERAT	TONS DIRECTOR (OFFSITE) RESPONSE		_

POSITION FILLED BY:

(1) Assistant Vice-President, Nuclear Production

- (2) Manager, Operations
- (3) Director, Technical Services

RESPONSIBILITY:

Command and coordinate ANPP emergency operations. Maintain overall responsibility for ANPP onsite and offsite emergency functions. Interface between ANPP and federal/state/county emergency response agencies. Oversee the communication of plant status updates and radiological release data and the notification of state and local agencies concerning recommended protective actions. Provide administrative, technical, and logistical support to station emergency operations and ensure the continuity of emergency organization resources. Make appropriate exceptions to QA/QC and plant administrative procedures.

IMMEDIATE ACTIONS:

NOTE

All actions listed shall be noted in the EOD Log by the EOD or EOD Stenographer.

- Report to the EOF upon notification. Upon arrival, sign in on the EOF Staffing Board.
- Contact Emergency Coordinator at TSC using Emergency Coordinator/Emergency Operations Director (EC/EOD) line and review:
 - (1) Basis for classification of event.
 - (2) Status of plant conditions.
 - (3) Corrective actions being implemented.
 - (4) Status of notifications to other ANPP offsite staff and offsite emergency management agencies.
- Ensure that all the following positions are staffed. As necessary, assign temporary personnel to fill staff positions until primary personnel arrive.

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		EMERGENCY OPERATIONS FACILITY ACTIVATION	TVATION 5 Page 13 of 50 sessment Coordinator sis Coordinator and Logistics Coordinator nicator on Engineer nator tatus Board Keeper sessment Communicator to serve as an assistant if needed) h available EOF personnel. As a minimum, the ld be discussed:	
	(2) (3) (4) (5) (6) (7) (8) (9) (10)) Radiological Assessment Coordina) Technical Analysis Coordinator) EOF Contact) Administrative and Logistics Coo) Logistics Communicator) Government Liason Engineer) Security Coordinator) Clerical Aide/Status Board Keepe) Radiological Assessment Communic) Dosimetry Clerk) Alternate EOD (to serve as an as 	rdinator r ator	
4.	Cond	duct briefing with available EOF p lowing items should be discussed:	ersonnel. As a min	imum, the
	(2)	Adequacy of activation. Ability of assigned personnel to Operability of equipment.	assume their emerg	ency duty roles.
5.	Corp	ify the Emergency Coordinator at the Coordinator at the Coordinator at the Coordinator at the Coordinator and ADF.S (TOC) using	EC using the Execut	ive Private
	(1)	EOF is operational		
	(2)	Current plant status		
	(3)	Recommended protective actions		
6. or d	Make	a Site Wide Public Address Announc ate this to the ALC.	ement that the EOF	is operational
7.	Ensu	are EOF contact notifies the Joint	Emergency News Cen	ter (JENC) that:
	(1)	The EOF is operational.		
	(2)	The EOD has assumed control and communications.	responsibility for	offsite
*8.		appropriate, make exceptions to QA edures.	/QC and plant admin	istrative
		방법에 대한 것이 같아.		

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9.	GLE	are the following offsite agencies that the EOF is operational and t command and has offsite communicat	he Emergency Operat	ions Director is	
	(1)	Arizona Division of Emergency Se circuit).	rvices (using dedic	ated voice	
	(2)	Arizona Radiation Regulatory Age	ncy (using dedicate	d voice circuit).	
	(3)	Maricopa County Dept. of Civil D (using dedicated voice circuit).	efense and Emergenc	y Services	
	(4)	NRC Headquarters (using ENS).			
.0.	Ensure the Followup Emergency Message Form is completed by the GLE in anticipation of next offsite update and recommendation of protective actions.				
1.	Prov	ide initial briefing to federal as	nd state staff at E	OF.	
12.	Brie	f EOF staff periodically using the	e EOF Public Addres	s System.	
3.	As n	ecessary, place EOF on recirculat	ion.		
4.	If e numb	vacuation is ordered, receive from er of evacuees.	m Emergency Coordin Total	ator total	
UBSI	EQUEN	T ACTIONS:			
		Notificatio	on.		
15.	Revi	ew onsite actions and requirement: dinator.		the Emergency	
16.	Comm	unicate with Corporate Emergency 1 us updates as necessary.	Director and provid	e periodic	
17.	Cons	ult with EOF Staff as necessary.			

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18.	Repeat steps 8 and 9 periodically as class changes.	necessary and when	ever the emergenc
19.	Upon desagrade or termination of Emer Compliance Dept. to provide a written within eight hours.	rgency Classification a summary to offsite	on, notify PVNGS authorities
	Recovery	-	
20.	Do not inform JENC of downgrading, control through the State EOC/TOC so that probe considered.	oordinate release of otective action reco	this informations may
21.	Consult with Emergency Coordinator, N Declare the emergency over when the u condition; notify offsite agencies as organization.	mit is in a control	led, stable
22.	Collect all EOF personnel documentati (1) Technical Analysis Coordinator (2) EOF Contact		
	 (3) Radiological Assessment Coordina (4) Administrative and Logistics Coordinal 	tor ordinator	
23.	Establish Recovery Organization and a Recovery Manager in accordance with E	ssume duties and re PIP-31, "Recovery."	sponsibilities o
24.	Notify affected offsite Emergency Man dedicated voice circuit systems that	agement Organizatio recovery operations	ns using are in progress

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POSITION FILLED BY:

- Manager, Operations Computer Systems
- (2) Other Designated Personnel with appropriate training

RESPONSIBILITY:

Calls in offsite resources and plans and provides logistical support for the onsite emergency organization. Logistical support includes provision of needed technical documents, additional communications and analytical equipment, additional security support, manpower support, transportation, housing and food needs. Acts as liaison to reporting support personnel and American Nuclear Insurers.

IMMEDIATE ACTIONS:

- Report to EOF upon notification. Upon arrival, sign in on the EOF Staffing Board.
- Receive initial briefing from Emergency Operations Director and establish responsible area.
- 3. Ensure that the following equipment is operational:
 - (1) SPDS
 - (2) CRACS

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- (3) EOF RE&M Terminals
- (4) EOF SIMS Terminal

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ADMINISTRATIVE AND LOGISTICS COORDINATOR RESPONSE (Cont.)

NOTE

The SIMS/MMIS Computer Staff reports to the Administrative and Logistics Coordinator and normally returns to the SIMS/MMIS data center. If the Annex Building is uninhabitable, they relocate to the EOF.

4. Ensure that the following positions are staffed and fully briefed:

- (1) Logistics Communicator.
- (2) Security Coordinator.
- (3) Clerical Aide/Status Boardkeeper
- (4) DDC Staff
- (5) SIMS/MMIS Computer Staff
- 5. Check that facilities available to Emergency Response Personnel are adequate.

NOTE

The SIMS/MMIS Computer Staff reports to the Administrative and Logistics Coordinator and normally returns to the SIMS/MMIS data center. If the Annex Building is uninhabitable, they relocate to the EOF.

- 6. Provide readiness briefing to Emergency Operations Director.
- 7. Maintain a log of actions as required.
- 8. If so directed by the EOD, make site wide P.A. Announcement that the EOF is operational.

SUBSEQUENT ACTIONS:

Offsite Assistance

*9. Contact support organizations listed in EPIP-33, "Offsite Assistance," to obtain necessary technical and/or additional manpower support (assume this function from Emergency Coordinator) using the commercial telephone line (see EPIP-33 for phone numbers).

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	ADMINISTRATIVE AND LOGI RESPONSE (C		
*10.	Contact American Nuclear Insurers, us and keep ANI informed of situation as responsibility by the Corporate Finar	s necessary (until	relieved of this
	Logistical Suppo	ort	
*11.	Obtain, as necessary, required:		
	 Technical documents Communication equipment Analytical equipment Manpower support Transportation support Housing and food for Emergency R 	Response Personnel	
*12.	Assist Government staff with logistic Recovery	cs as necessary.	
13.	Receive any documentation and associa Communicator after emergency is termi	ated logs from the inated.	Logistics
14.	Receive any documentation and associa Director after emergency is terminate	ated logs from the ad.	Sacurity
15.	Receive any documentation and associa Aide/Status Board Keeper after the em	ated logs from the mergency is termina	Clerical ted.
16.	Submit documentation, logs, and other Director when emergency is cancelled.	data to Emergency	Operations

		G PROCEDURE	PROCEDURE NO. EPIP-13	APPENDIX E Page 1 of 3
	EMERGENCY OPERATIONS REVISION FACILITY ACTIVATION		IONS REVISION	
		RADIOLOGICAL ASSESSMI RESPONS	and the second se	
POSI	TION FILLED BY:	 Manager, Radiat: Other Designated 	ion Protection & Ch i Personnel	emistry
RESP	ONSIBILITY:	Principal liaison of organization with the Directorate. Receive information from the Coordinator. Advise protective action rec offsite authorities. efforts. Direct the	 Radiological Tech and evaluate dose Radiological Prote the Emergency Oper commendations to be Coordinate offsit 	nical rate projection ction ations Director of provided to e monitoring
IMME	DIATE ACTIONS:			
1.	Report to EOF Staffing Board	upon notification. Up i.	on arrival, sign i	n on the EOF
2.	Receive initia establish resp	al briefing from Emerge ponsible area.	ncy Operations Dir	ector and
3.	Ensure that the staffed and fur operational.	e Radiological Assessm ally briefed and that c	ent Communicator's ommunication syste	position is ms are
	Ensure R.P. Su projections.	pport Staff is briefed	and ready to perf	orm dose
4.			projection data.	176 00100 1-
	Access CRACS t available)	o receive current dose		(IT CRACS IS
*5.	available)	o receive current dose onal status of dose ca		
4. *5. 6. * Co	available)	onal status of dose ca		

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE EMERGENCY OPERATIONS FACILITY ACTIVATION		PROCEDURE NO. APPENDIX E EPIP-13 Page 2 of		
		REVISION 5 Page 20 of 50		
		RADIOLOGICAL ASSESSM RESPON		
7.	Ensure assess	e that the following materials sments are available:	s needed to perform	manual dose
•	(1)	EPIP-14A, "Release Rate Deter EPIP-14B, "Initial Dose Asses EPIP-14C, "Continuing Dose As	ssment"	
	(2) (3)	Isopleths Base Map		
8.	Contact the Radiological Protection Coordinator at TSC using the Environmental Assessment line at extraction and determine:			
		Extent and consequence of rad conditions.		and plant
	(3)	Protective action recommendat Potential for future radiolog Location of offsite field mon also contact Radiation Protect	gical releases. nitoring teams, when	n dispatched. (May his information)
9.	Mainta	ain a log of actions as requir	red.	
SUBŚEC	QUENT AC	TTIONS:		
		Dose Rate Pro	ojections	
10.	deter	ze source term, meteorological mine reasonableness and consis as basis for protective action	stency of data with	ing data to dose projections
*11.	Evalua	ate plant conditions to determ ble emission increases.	nine probability and	i magnitude of
*12.	Ensure availa	e Radiological Status Boards a able.	are updated as info	mation becomes

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RADIOLOGICAL ASSESSMENT COORDINATOR RESPONSE

Protective Actions

- *13. Advise the Emergency Operations Director as to the need for protective actions.
- *14. Provide updates to State of Arizona Representative concerning Protective Actions.

Field Monitoring

*15. Provide updates to the ARRA State Representative as necessary.

*16 Direct Radiological Assessment Communicator to position offsite field monitoring teams, as necessary

Recovery

- 17. Receive any documentation and associated logs from the Radiological Assessment Communicator after emergency is terminated.
- Receive any documentation and associated logs from the Dosimetry Clerk after emergency is terminated.
- Submit documentation, logs and other data to Emergency Operations Director when emergency is cancelled.

Continuing Activity

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EMERGENCY OPERATIONS FACILITY ACTIVATION	REVISION 5	Page 22 of 50	15

TECHNICAL ANALYSIS COORDINATOR (OFFSITE) RESPONSE

- POSITION FILLED BY: (1) Designated person from Shift Technical Advisor (STA) Group
 - (2) Other Designated Personnel

RESPONSIBILITY:

Function as the primary interface with NRC/state/ county personnel stationed in the EOF. Provide updates on the status of the reactor and unit. Supervise the GLE and OTR.

IMMEDIATE ACTIONS:

- 1. Report to EOF upon notification. Upon arrival, sign in on the EOF Staffing Board.
- 2. Receive initial briefing from Emergency Operations Director and establish responsible area.
- 3. Ensure that the following positions are staffed and fully briefed:
 - (1) Government Liaison Engineer.
 - (2) Offsite Technical Representative.
- *4. Obtain information on plant status from TSC using the Technical line or normal phone line.
- *5. Brief Emergency Operations Director on operational status.
- *6. Maintain a log of actions required.

* Continuing Activity

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TECHNICAL ANALYSIS COORDINATOR (OFFSITE) RESPONSE (Cont.)

SUBSEQUENT ACTIONS:

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Technical Guidance

- *7. Provide Emergency Operations Director with technical guidance on how plant status may impact offsite emergency response actions.
- *8. Receive reports on technical changes and recommendations from the Technical Engineering Coordinator in the TSC.

Government Staffing at EOF

*9. Provide updates to NRC, state, and county personnel as necessary on the status of the reactor and unit; assisted by Government Liaison Engineer.

Public Information

*10. If so directed by the EOD, verify the technical accuracy and adequacy of all public information releases prior to dissemination to the news media.

* Continuing Activity

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-13	APPENDIX F Page 3 of 3	
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TECHNICAL ANALYSIS COORDINATOR (OFFSITE) RESPONSE (Cont.)

SUBSEQUENT ACTIONS:

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Recovery

- 11. Receive any documentation and associated logs after emergency is terminated from
 - (1) Government Liaison Engineer
 - (2) Offsite Technical Representative
- 12. Submit documentation, logs and other data to Emergency Operations Director when emergency is cancelled.

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	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		NO.		
ŧ.	EMERGENCY OPERATIONS FACILITY ACTIVATION		REVISION 5	Page 25 of 50	
		RADIOLOGICAL ASSESS RESPO			
POST	ITION FILLED BY:	 Designated per with appropria 	son from Radiation F	Protection Section	
		(2) Other Designat	ed Personnel		
RESI	PONSIBILITY:	radiological a	ord of matters perta ssessment. Maintain cal assessment perso	communications	
IMME	EDIATE ACTIONS:				
1.	Report to EOF up Staffing Board.	pon notification. Up	on arrival, sign in	on the EOF	
2.	Obtain initial briefing from Radiological Assessment Coordinator and establish responsible area.				
3.	Determine operat	bility of following c	ommunications circui	ts:	
	(1) Normal phor	ne			
	(2) Dedicated v	voice circuits			
	(3) Environment	tal Assessment Line	and a state of the		
	(4) Base static	on radio			
4.	Report inoperabl Administrative a	le circuits to Radiolo and Logistics Coordin	ogical Assessment Co ator.	ordinator and	
*5.	Establish and ma Assessment perso	aintain communications onnel using the norma	s with TSC and STSC 1 1 PBX phone line.	Radiological	
				1.1.1	
* Co	ntinuing Activity				

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RADIOLOGICAL ASSESSMENT COMMUNICATOR RESPONSE (Continued)

SUBSEQUENT ACTIONS:

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Radiological Assessment

- *6 Direct offsite radiological field assessment teams to various sampling locations as requested by the Radiological Assessment Coordinator. Coordinate team movement with state and other agency teams as required.
- *7. Plot reported dose rates and various team locations as an aid in plume tracking.
- *8. Inform the Radiological Assessment Coordinator of changes in radiological status.
- *9. Maintain records of communications concerning radiological assessment.
- *10. Maintain a log of actions as required

Recovery

11. Submit any documents and logs to Radiological Assessment Coordinator when emergency is cancelled.

* Continuing Activity

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GOVERNMENT LIAISON ENGINEER RESPONSE

POSITION FILLED BY: (1) Designated person from Nuclear Engineering or Licensing Department with appropriate training.

(2) Other Designated Personnel

RESPONSIBILI M:

Relieve STSC Communicator of responsibility of making initial and subsequent notifications of changes in emergency classification to Federal, State and County Agencies. Assist Technical Analysis Coordinator with briefings of Government staff at EOF.

IMMEDIATE ACTIONS :

- Report to EUF upon notification. Upon arrival sign in on the EOF Staffing 1. Board.
- Establish responsible area. 2.
- Receive initial briefing from Technical Analysis Coordinator. 3.
- 4. Inform the STSC Communicator, using the normal phone line that you are on station and assume the responsibility for offsite notifications of changes in emergency classification.
- *5. Establish and maintain communications with offsite agencies, per EPIP-04, EPIP-05, or EPIP-06 and using Voice Circuit #4.
- *6. Maintain log of communications per EPIP-04, EPIP-05, or EPIP-06.

Continuing Activity

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IMMEDIATE ACTIONS: (Cont'd)

- 7. Notify the FAA using commercial phone lines as necessary.
- Notify the National Transportation Board using commercial phone lines as necessary:
- *9. Maintain a log of actions as required.

SUBSEQUENT ACTIONS:

Government Staffing at EOF

*10. Assist Technical Analysis Coordinator with briefings of Government staff at EOF, as necessary.

Recovery

- 11. Provide termination of emergency announcement per EPIP-04, EPIP-05 or EPIP-06.
- 12. Submit any documentation, logs, and other data to Technical Analysis Coordinator when emergency is cancelled.

* Continuing Activity.

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-13	APPENDIX I Page 1 of 3	7
EMERGENCY_OPERATIONS FACILITY ACTIVATION	REVISION 5	Page 29 of 50	

EGF CONTACT RESPONSE

POSITION FILLED BY:

- (1) PVNGS Training Department Individual with Appropriate EOF Contact Training
- (2) Other Designated Personnel

RESPONSIBILITY:

Report significant changes in plant status to JENC Facility Manager for subsequent release to media. Maintain close contact with JENC Facility Manager.

IMMEDIATE ACTIONS:

- Report to EOF upon notification. Upon arrival, sign in on the EOF Staffing Board.
- 2. Receive initial briefing from Emergency Operations Director.
- *3. Establish and maintain communications with the CHIC Director until the Joint ENC is activated.
- *4. Establish and maintain communications with the JENC Facility Manager at the Joint Emergency News Center using the Public Information Ringdown Phone Circuit
- 5. Report readiness to Emergency Operations Director.

*6. Maintain a log at actions as required.

Continuing Activity

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	GENCY PLAN G PROCEDURE	PROCEDURE NO. EPIP-13	APPENDIX I Page 2 of 3
	CY OPERATIONS Y ACTIVATION	REVISION 5	Page 30 of 50
	EOF CONTACT R	ESPONSE	
JBSEQUENT ACTIONS:			
	Public Infor	mation	
	CAUTION	-	
PROTECTIVE AUTHORITIES TO THE JENC	ACTIONS RECOMMENDED TO BY ANPP SHALL NOT BE	O STATE TRANSMITTED	
Lmergency Operat	s releases are review ions Director (EOD). other data to EOD whe		
Lmergency Operat	ions Director (EOD).		
Emergency Operat	ions Director (EOD).		
. Submit logs and	ions Director (EOD). other data to EOD whe		
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EOF CONTACT INFO SHEE THIS IS/IS NOT A DRI Telecopy to JENC/CHI DATETIME 1. EVENT CLASSIFICATION: a. UNUSUAL EVENT ALERT SITE AREA b. Basis (E A L) c. Release Wind:/ Speed	LL SERIAL # EMERGENCY (YES / NO) From c. OSC Complete: Search Ord Contaminat	GENERAL EMERGENCY Stability (YES / NO) (YES / NO) (YES / NO) ered: (YES / NO) ion: (YES / NO)
THIS IS/IS NOT A DRI Telecopy to JENC/CHI DATETIME 1. EVENT CLASSIFICATION: a. UNUSUAL EVENT ALERT SITE AREA b. Basis (E A L) c. Release Wind:Speed c. Initiating Event: 1) Basis for event classification: 2. EMERGENCY FACILITY ACTIVATION: a. STSC/TSC (YES / NO) b. EOF (YES / NO) d. Accountability; Plant Evacuation: Ordered: (YES / NO) Missing People: (YES / NO) e. Injuries (YES / NO) 3. PLANT STATUS: Criticality: Rod Position: Power: Hot Leg Temp: RCS Pressure: Vessel Level: CTMT Humidity: Temp:	LL SERIAL # EMERGENCY (YES / NO) From c. OSC Complete: Search Ord Contaminat	GENERAL EMERGENCY Stability (YES / NO) (YES / NO) (YES / NO) lered: (YES / NO) ion: (YES / NO)
DATETIME 1. EVENT CLASSIFICATION: a. UNUSUAL EVENT ALERT SITE AREA b. Basis (E A L) c. Release Wind:/ C. Initiating Event:/ 1) Basis for event classification: 2. EMERGENCY FACILITY ACTIVATION: a. STSC/TSC (YES / NO) b. EOF (YES / NO) d. Accountability; Plant Evacuation: Ordered: (YES / NO) Missing People: (YES / NO) e. Injuries (YES / NO) 3. PLANT STATUS: Criticality: Rod Position: Power: Hot Leg Temp: RCS Pressure: Vessel Level: CTMT Humidity: Temp:	SERIAL # EMERGENCY (YES / NO) / From c. OSC Complete: Search Ord Contaminat	GENERAL EMERGENCY Stability (YES / NO) (YES / NO) (YES / NO) lered: (YES / NO) ion: (YES / NO)
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 a. UNUSUAL EVENT ALERT SITE AREA b. Basis (E A L) c. Release Wind:	(YES / NO) From c. OSC Complete: Search Ord Contaminat	Stability (YES / NO) (YES / NO) lered: (YES / NO) ion: (YES / NO)
Speed c. Initiating Event:	c. OSC Complete: Search Ord Contaminat	(YES / NO) (YES / NO) lered: (YES / NO) ion: (YES / NO)
 Basis for event classification:	c. OSC Complete: Search Ord Contaminat	(YES / NO) (YES / NO) lered: (YES / NO) ion: (YES / NO)
<pre>2. EMERGENCY FACILITY ACTIVATION: a. STSC/TSC (YES / NO) b. EOF (YES / NO) d. Accountability; Plant Evacuation: Ordered: (YES / NO) Missing People: (YES / NO) e. Injuries (YES / NO) 3. PLANT STATUS: Criticality: Rod Position: Power: Hot Leg Temp: RCS Pressure: Vessel Level: CTMT Humidity: Temp:</pre>	c. OSC Complete: Search Ord Contaminat	(YES / NO) (YES / NO) lered: (YES / NO) ion: (YES / NO)
<pre>a. STSC/TSC (YES / NO) b. EOF (YES / NO) d. Accountability; Plant Evacuation: Ordered: (YE3 / NO) Missing People: (YES / NO) e. Injuries (YES / NO) 3. PLANT STATUS: Criticality: Rod Position: Power: Hot Leg Temp: RCS Pressure: Vessel Level: CTMT Humidity: Temp:</pre>	Complete: Search Ord Contaminat	(YES / NO) ered: (YES / NO) ion: (YES / NO)
Power: Hot Leg Temp: RCS Pressure: Vessel Level: CTMT Humidity: Temp:		Deven
RCS Pressure: Vessel Level: CTMT Humidity: Temp:		Boron:
RCS Pressure: Vessel Level: CTMT Humidity: Temp:	T av	e:
CTMT Humidity: Temp:		
CTMT Water Level: Sub Cool Margi	CTMT Dose	Rate:
	n: !	SI Flow:
Pressurizer Level: RWT Level:		
4. EQUIPMENT STATUS: RCS Pumps: Turbine: Diesels: Safety Injection - HPSI: A B CTMT Spray: A B CTMT Isolati		
5 RADIOLOGICAL STATUS:		
Value: Instrum Meaning:	ent Type:	
	the second s	The second se

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-13	APPENDIX J Page 1 of 2
EMERGENCY OPERATIONS FACILITY ACTIVATION		REVISION 5	Page 32 of 50
	LOGISTICS COMM RESPONS		
POSITION FILLED BY: (1)	Designated person with appropriate	n from Materials Co training	ntrol Section
(2)	Other Designated	Personnel	
RESPONSIBILITY:	obtained. Contac	of logistics support t offsite support oport at direction ordinator.	organizations to
IMMEDIATE ACTIONS:			
 Report to the EOF upo Staffing Board. 	on notification. U	Jpon arrival, sign	in on the EOF
 Receive initial brief Coordinator. Establi 	fing from the Admir ish responsible are	nistrative and Logi Ma.	stics
3. Ensure all EOF commun Radiological Assessme	nications equipment ent Communicator.	is operational wi	th assistance of
4. Synchronize EOF clock	s with affected un	it control room clo	ock.
5. Establish and maintai	n a record of logi	stic support obtain	ned and required.
6. Report readiness to A			
*7. Maintain an action lo			
SUBSEQUENT ACTIONS :			
- 34 C	te Assistance		
*8. Contact offsite suppo at direction of Admin	rt organizations p	er EPIP-33, "Offsit stics Coordinator.	te Assistance,"

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EMERGENCY OPERATIONS FACILITY ACTIVATION	REVISION 5	Page 33 of 50	
LOGISTICS COMM RESPONS			
Recovery	바람 작품 문문		
9. Submit any documentation and records t Coordinator upon cancellation of emerg	o Administrative as	nd Logistics	

Continuing Activity

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	OCEDURE	NO. EPIP-13	APPENDIX K Page 1 of 2			
EMERGENCY OPE FACILITY ACTI		REVISION 5	Page 34 of 50			
s	ECURITY COORDINATO	OR RESPONSE				
POSITION FILLED BY: (1)	Designated person with appropriate	n from Security D training.	epartment			
(2)	Other Designated	Personnel				
RESPONSIBILITY:	Director regarding	cations with Seru ng offsite person personnel necëss site entry.	nel required			
IMMEDIATE ACTIONS:						
 Report to EOF upon not: Staffing Board. 	ification. Upon as	rrival, sign in o	n the EOF			
2. Receive initial briefin establish responsible a	ng from Administrat area.	tive and Logistic	s Coordinator and			
 Contact Security Direct alternate (the security conditions. 	tor at TSC using th y radio frequency)	he normal phose a to determine pres	t ext. or sent site access			
4. Inform the Administration conditions and report a	ive and Logistics (readiness.	Coordinator of si	te security			
5. Maintain action log as	required.					
SUBSEQUENT ACTIONS :		- 전신 동안이				
	Security/Site Acc	ess				
 Inform the Security Dir (the security radio fre expedite badging proces 	quency), of offsit	the normal phone personnel requi	a or alternate ired onsite to			
7. Maintain communications phone line regarding pe	with the Security ersonnel granted ac	Director at TSC ccess to site.	using the normal			
8. Process personnel neces appropriate security pr	sary for site supp ocedures.	fort prior to site	entry per			

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SECURITY COORDINATOR RESPONSE

Recovery

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9. Submit any documentation and logs to the Administrative and Logistics Coordinator upon cancellation of emergency.

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	PVNGS EMERGE		PROCEDURE NO. EPIP-13	APPENDIX L Page 1 of 3
	EMERGENCY OF FACILITY AC		REVISION 5	Page 36 of 50
		DOSIMETRY (RESPONSE AND		
POS	ITION FILLED BY: (1)	Designated person with appropriate	from Radiation Pr training	otection Section
	(2)	Other Designated	Personnel	
REPO	ONSIBILITY:	EOF personnel, su assignment, and s	pport personnel re ite personnel. Ma Perform habitabi	porting to site intain dosimetry
IMME	EDIATE ACTIONS :			
	Report to EOF upon n Staffing Board. Receive initial brie	fing from the Radi		
	escabilsh responsibl	e area.		
3.	Obtain emergency dos distribution.	imetry from EOF em	ergency locker in	preparation for
4.	Report readiness to	the Radiological A	ssessment Coordina	tor.
*5.	Maintain action log	as required.		
SUBS	EQUENT ACTIONS:			
6.	Provide dosimetry an	d TLDs, as necessa	ry, to the following	ng:
	 EOF personnel. Support person Site personnel 	nel reporting for	site assignment.	
* 7.	Maintain dosimetry i	ssuance records.	1	
*8.	Report need for addi Coordinator.	tional dosimetry t	o the Radiological	Assessment

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DOSIMETRY CLERK RESPONSE AND TLD LOG (Cont'd)

SUBSEQUENT ACTIONS:

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- *9. As required perform habitability surveys of the EOF.
- Submit any documentation and dosimetry issuance records to the Radiological Assessment Coordinator upon cancellation of emergency.

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ISSUC DATE	-								-				
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Employee No. or Company													
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-13	APPENDIX M Page 1 of 6	
EMERGENCY OPERATIONS FACILITY ACTIVATION	REVISION 5	Page 39 of 5	
CLERICAL AIDE/STATUS RESPONSE & STA	BOARD KEEPER-EOF TUS BOARDS		
POSITION FILLED BY: (1) Designated per appropriate tr			
RESPONSIBILITY: Maintain record of taken by ANPP Emerg Status Boards. Rec emergency.	ency Organization o	n	
IMMEDIATE ACTIONS:			
 Report to EOF upon notification. Upon Staffing Board. 	n arrival, sign in	on the EOF	
 Receive briefing from Administrative a establish responsible area. 	and Logistic Coordi	nator and	
3. Report readiness to Administrative and	d Logistics Coordin	ator.	
SUBSEQUENT ACTIONS:			
Status Boa	rd		
*4. Record status of emergency as expresse or Radiological Assessment Coordinator	ed by Technical Ana r.	lysis Coordinato	
NOTE			
Ensure time recorded on stat event time rather than post:	tus boards is ing time.		
Recovery			
 Submit any documentation to Administra cancellation of emergency. 	ative and Logistics	Coordinator upo	
	and an phi		

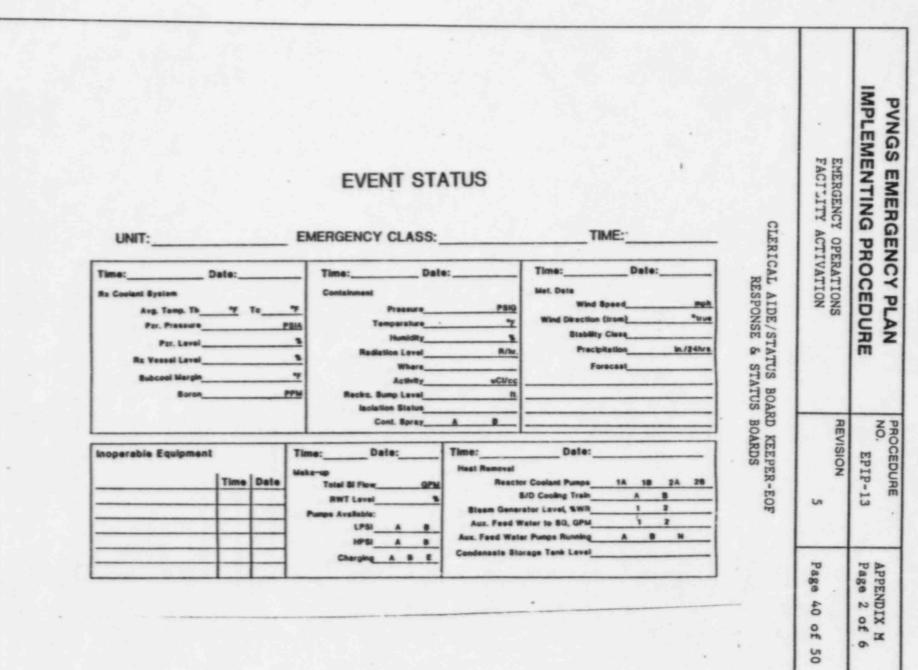
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DATE:		NT STAT			FACILITY		IMPLEMENTING PROC
CEA Status RCS Press RCS Temps.: L	PSIA Trend oop 1 TH oop 2 TH	Subcooled Margin PF TCA PF TCA PF TCA PF TCA	<u>°F</u> Тсв <u>°F</u> Тсв	*F	ERICAL AIDE/STAT RESPONSE &	OPERAT	PROCEDURE
CHRG Pumps Og	perating A B	E RCP's	ghest°F AVG Operating ad. Mon		BOARD N TUS BOA	REV	NO.
SG1 Level Activity SG2 Level	%WR Press µCl	gm AFW Flor	ISOL/SBCS/ATMOS Dum w GP ISOL/SBCS/ATMOS Dum w GP	np M np	TUS BOARD KEEPER-EOF STATUS BOARDS	REVISION	NO. EPIP-13

IMPLEMENTING PROCEDURE PVNGS EMERGENCY PLAN EMERGENCY OPERATIONS FACILITY ACTIVATION SDC Cold Leg Inj. RAS Hot/Cold Inj. SI:
 HPSI Cold Leg Flow GPM1A
 18
 2A

 HPSI Hot Leg Flow GPM 1
 2
 3
 28 HPSI Hot Leg Flow GPM 1 2 CLERICAL AIDE/STATUS BOARD KEEPER-EOF RESPONSE & STATUS BOARDS LPSI Cold Leg Flow GPM 1 2 SITS(Level/Outlet Valve) 1A / 1B / 2A / 2B CTMT: Press. PSIG Temp. *F Temp. Trend °F/HR GPM CIAS Yes/No CSAS Yes/No Total CS Flow Radwaste Sump Level A IN B IN Recirc. Sump Levels A FT B FT H2 Conc. % Humidity H₂ Recombiners REVISION PROCEDURE H2 Purge Unit CTMT Rad. Mon. EPIP-13 AFW Pumps On CST Level FT PBB SO4 On PBA SO3 On the second s L/I Offsite Power Avail. DG's Operating 11 Estimated Prim/Sec Leakrate GPM APPENDIX M Page 4 of 6 Page 42 of 50

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SO	URCE	-TER	M S	TATL	JS AI	ND T	RENI	DS]	EMERGENCY FACILITY	IMPLEMENTING PROC
Monitor	Channel	Reading	CLERICAL	N N							
Containment	Indine "CVcc			[-		ř	AL AIDE/STATUS RESPONSE & ST	OPERATIONS ACTIVATION	PROCEDURE
	Gas µCVec Part. µCVec								PON	SNR	12
Plant	Iodine "CVcc								SES		T
Vent	Gas "CVcc							1	TA		m
	Part. "CVcc								5 a		
Fuel Bldg. Exhausi	Iodine "CVcc								TA		<u> </u>
A. A. C. A.	Gas "CVec								180 DB		
Condenser	Part "CVcc								SAR		-
Off Gas	Iodine "CVcc								TUS BOARD KEEP STATUS BOARDS	NAK	
Steamline Monitor	"R/hr				-				ARDS	REVISION	EPIP-13
	Rhr								EOF	5	-13

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IMPLEMENTING PROCEDURE							NO	1.	EP							APPENDIX M Page 6 of 6									
	EMERG FACIL														RE	VIS	0	N		5				Page 4	4 of 5
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			Particula																		-		1]	
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		PLANT MONITORING DATA	Count Raie	cpm	cpm	chru	thm	uda	cpm	uds	cpm	cpm	uda	the	uda	cpm	thu	uds	chm	uda	Cpm	cpm	spm	Carl Carl	
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-13	APPENDIX N Page 1 of 3	
EMERGENCY OPERATIONS FACILITY ACTIVATION	REVISION 5	Page 45 of 50	

OFFSITE TECHNICAL REPRESENTATIVE RESPONSE & LOG

POSITION FILLED BY: (1)

-) Designated person from Nuclear Operations Licensing with appropriate training.
- (2) Other Designated Personnel

RESPONSIBILITY:

Coordinate ANPP emergency response activities with federal/state/county agencies at the State EOC/TOC. Provide up-to-date site information. Interpret substantiated data regarding PVNGS emergency status and conditions for emergency response agencies assigned to the State EOC/TOC.

IMMEDIATE ACTIONS:

- Report to Technical Operations Center (TOC) at State Emergency Operations Center (EOC), ADES Headquarters, 5636 East McDowell Road in Phoenix, upon notification.
- 2. Report presence to ARRA Director of Radiological Technical Operations.
- Contact Technical Analysis Coordinator at EOF using dedicated voice circuit and receive initial briefing.

SUBSEQUENT ACTIONS:

ANPP and State EOC/TOC Coordination

- *4. Maintain communications and coordinate actions between ARRA Firector of Radiological Technical Operations and ANPP Technical Analysis Coordinator at EOF using dedicated voice circuit.
- *5. Provide site information and interpret data at State TOC.

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OFFSITE TECHNICAL REPRESENTATIVE RESPONSE and Log (Cont.)

*6. Maintain log as necessary.

Recovery

 Submit any documentation and log to Technical Analysis Coordinator at EOF upon cancellation of emergency.

*Continuing Activity

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		GENCY PLAN	PROCEDURE NO. EPIP-13	APPENDIX N Page 3 of 3			
EMERGENCY OPERATIONS FACILITY ACTIVATION			REVISION 5	Page 47 of 50			
	OFFSIT	E TECHNICAL REPRESENTA	NTATIVE RESPONSE AND LOG				
		Person Contacted	Information	Related			
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3.			47				
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	IMPLEMENTING PR	CY PLAN OCEDURE	PROCEDURE NO. EPIP-13	APPENDIX O Page 1 of 1	
	EMERGENCY OPE FACILITY ACTI		REVISION 5	Page 48 of 50	
	JE	NC TECHNICAL ADV	ISOR RESPONSE		
POSI	TION FILLED BY:		person from Nuclear with appropriate tr		
<i>F</i>	-	(2) Other Design	nated Personnel		
RESP	1	background to JEN	ssary technical exp NC Facility Manager t of all media rele	. Review	
IMME	DIATE ACTIONS:				
1.	Upon notification repo McDowell Rd., Phoenix	ort to Joint Emer	rgency News Center	(JENC) at 5636 E.	
2.	Report presence to JEN	C Facility Manag	ger.		
3.	Contact Technical Anal circuit (or alternate)	lysis Coordinator) and receive ini	r at EOF using dedi itial briefing.	cated voice	
SUBSI	EQUENT ACTIONS :				
		Public Informa	tion		
#4.	Maintain frequent commundates.	sunication with E	COF contact and rec	eive plant status	
*5.	Provide technical expl Facility Manager, as r if required).	anations and bac necessary (and to	ckground informatic p media	n to JENC	
*6.	Review technical conte	ent of all media	releases.		
		Recovery			
7.	Submit check list to 7				

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-13	APPENDIX P Page 1 of 1	7
EMERGENCY OPERATIONS FACILITY ACTIVATION	REVISION 5	Page 49 of 50	

SECURITY FORCE MEMBER RESPONSE

POSITION FILLED BY:

Security Personnel

RESPONSIBILITY:

Restrict access to EOF.

IMMEDIATE ACTIONS:

- Upon being relieved by the reporting Security Officer proceed to EOF and perform the following:
 - Lock door by stairway #2 (see Appendix Q) to restrict entrance to the EOF.
 - (2) Man post inside the Annex Building basement air lock to restrict entrance into the EOF.
- Report completion of EOF readiness to Security Captain at Security Building.

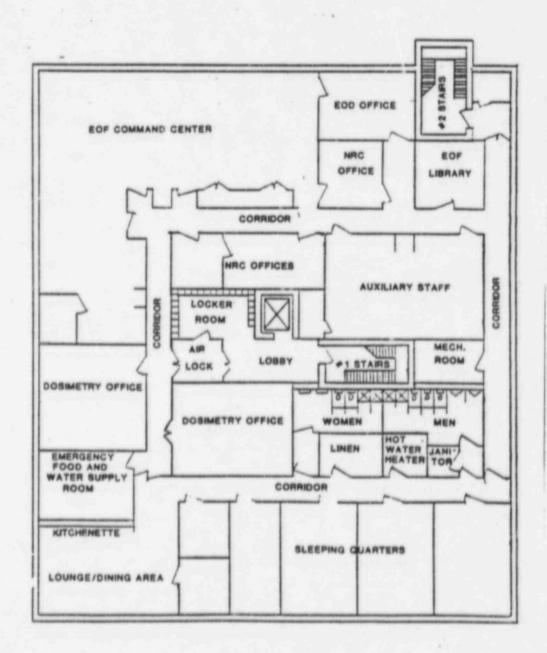
SUBSEQUENT ACTIONS:

 Submit any documentation to Security Coordinator when emergency is terminated.

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-13	APPENDIX Q Page 1 of 1
EMERGENCY OPERATIONS FACILITY ACTIVATION	REVISION 5	Page 50 of 50

EMERGENCY OPERATIONS FACILITY LAYOUT



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ASSIGNED COPY	HANGE NOTICE PAGE / of /
PVNGS # <u>8-913</u>	INTENT CHANGE: NO TYES
1. PROCEDURE TITLE <u>Release</u> RA	Te DeTERMINATION
2. PROCEDURE NUMBER E PIP 14A	REV. 6 PCN 02
2a.Manager concurrence M/A	-DATE
3. REASON FOR PCN: TO ESTABLISH A METTO	2 FER RELEASE RATE
DETERMINATION WHEN STEAM LINE	MONITORS ARE INOPERARIE
4. EXPIRATION: NEXT REVISION	
5. AFFECTED STEPS:	CHANGE REQUIRED:
PAGE 7 "NOTE" PRECEEDING STEP	
7.3.2.1	and the state of t
	Republic with PAGE TA
6. PREPARED BY:	
OPL	ENTERED IN PROCEDURE BY:
SIGNATURE /2-/3-85	
DATE	SIGNATURE DATE
7. TEMPORARY APPROVAL:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
~//s	
- SIGNATURE DATE	SS/Assist. SS DATE
8. DEPT. MANAGER:	9. PRB/EBC/TRRC:
SIGNATURE JA/18/85	= UA Summill 1/2/86
C I C I C I C I C I C I C I C I C I C I	SIGNATURE DATE
10. APPROVED BY:	-/ 1/0/80
DEPARTMENT MANAGER'S STONATURE	
11. DATE EFFECTIVE: 01.15.84	DATE

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PALO VERDE NUCLEAR GENERATING STATION

PROCEDURE CHANGE NOTICE

	FAGE_/_of_/
	INTENT CHANGE: NO
	- · YES
1. PROCEDURE TITLE REISARE RETE DETEN	minpoor
2. PROCEDURE NUMBER EPIP. 14A	
2a.Manager concurrence N/A to exceed 5 PCNs	
3. REASON FOR PCN: 10 COLLECT grad	i Pape E TO MEET
4. EXPIRATION: NEXT REVISION	
5. AFFECTED STEPS:	CHANGE REQUIRED:
Page 6 of 7 of App. E	BELETE Dige 6 of
	87 f Ben E
	INSEG 6A SF. 7
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6. PREPARED BY:	ENTERED IN PROCEDURE BY:
SIGNATURE DATE DATE	SIGNATURE DATE
7. TEMPORARY APPROVAL:	
NA	
SIGNATURE DATE	SS/Assist. SS DATE
B. DEFT. MANAGER:	9. PRB/PRG/TRRG:
SIGNATURE 6/25/85	CALEMANN GLASHE
10. APPROVED BY: AA LIMAIN	DATE
DEPARTHENT HANACER'S STONATURE	0/13/83
11. DATE EFFECT CONTROLLED DOCU	MENT

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-14A	
	REVISION	
RELEASE RATE DETERMINATION	6	Page 1 of 23
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	SSIGNED C	0PY 8-9B 3/19/55
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PV	SSIGNED C /NGS # DATE DATE	OPY 8-9B 3/19/65 3/29/65 2/29/65 2-4/5/8

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Rev. No.	Date 19 and 04-10 45 12-21-84	REVISION HIS Revised Pages 4, 8, 15	Revised S	Comments LM Correction Iculational Method
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			monitors.	
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-14A	
RELEASE RATE DETERMINATION	HEVISION 6	Page 3 of 23
TABLE OF CONTRA		
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2.0 REFERENCES		- 4
3.0 LIMITATIONS AND PRECAUTIONS		
4.0 DETAILED PROCEDURE		- A Contactor
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4.1 Personnel Indoctrination/Responsi 4.2 Prerequisites	bilities	5
4.3 Instructions		6
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r viene an		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
APPENDICES		
Appendix A - Release Rate Determination From		
Release Point	an Effluent	10
Appendix B - Effective Age Correction Factor	s For the	12
Effluent Monitors		
Appendix C - Noble Gas and Iodine Radiologic	al Data	13
Appendix D - Release Rate Determination from	Main Steam System	14
Appendix E - Release Rate Determination from Containment Using Design Basis and Area Monitors or External C	an Isolated Leak Rates	
Radiation Monitors		17

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		EMERGENCY PLAN NTING PROCEDURE	PROCEDURE NO. EPIP-14A	
RE	LEAS	E RATE DETERMINATION	REVISION 6	Page 4 of 23
1.0		TIVE		
	(Sect	procedure permits determinations 4.3.1 and 4.3.2) or the particular basis containment leak rates	projection of re	losso rates neine
2.0	REFER	ENCES		
2.1	Imp	lementing References		
2.	1.1	EPIP-14B, "Initial Dose Asses	ssment"	
2.	1.2	78AC-0ZZ06, "Document and Red	cord Turnover Cor	atrol"
2.	1.3	74CH-92Z47, "Core Damage Asse		
2.2	Dev	elopmental References		
2.	2.1	PVNGS Emergency Plan, Rev. 5		-
2.	2.2	FSAR, Chapter 11, "Process an Monitoring and Sampling Syste	nd Effluent Radio	logical 5, August 1981.
2.	2.3	NUREG-0737, "Clarification of October 1980.	f TMI Action Plan	Requirements",
2.	2.4	EPA-520/1-75-001, "Manual of Protective Actions for Nuclea	Protective Actic ar Incidents," Re	on Guides and w. 6/80.
2.	2.5	CE System 80 CESSAR, Standard	I PWR NSSS	
2.	2.6	Steam Tables; Table 1, ASME,	1967	
2.	2.7	ANPP: Radiation Design Guide	, SYS 80-PE-RG,	Rev. 2
2.	2.8	"Reactor Shielding Design Mar D. Van Nostand, Princeton NJ		
2.	2.9	"Radiological Health Handbook Technical Information Service	k," US DNEW, 1970	, National
3.0 *	LIMIT	ATIONS AND PRECAUTIONS		
3.1	con	accuracy of plant vent monito tainment area monitors is ±20% culations may be limited to the	. Therefore, re	lease rate

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE BEVISION					
		REVISION			
RELEAS	E RATE DETERMINATION	6	Page 5 of 23		
4.0 <u>DETA</u>	ILED PROCEDURE				
4.1 Pe	rsonnel Indoctrination/Respo	Susibilities			
4.1.1_	Monitor readings and monit obtained from the communic or the console in the Radi	ation console in t	he Control Room		
4.1.2	"Effective age" refers to time of the release. Rele of "effective age".	the time between c ase rates will var	ore shutdown and y as a function		
4.1.3	When selecting values from to 1% failed fuel shall be indicate severe fuel cladd age falls between two list yields the higher value sh	used unless plant ling failure. When d values, an effe	conditions		
4.1.4	The Radiation Protection T responsible for the initia off-site dose calculations	l release rate det	d unit) shall be erminations and		
4.1.5	The Radiological Protectio for dose assessment when t 14B, 14C).	n Coordinator shal he TSC is activate	l be responsible d (EPIPs-14A,		
4.1.6	If the CRAC System or IBM be used, proceed directly Procedure or the PVNGS Eme Computer Program, App. E,	to the CRAC System rgency Off-site Do	Operations		
4.1.7	1.7 All release rate determination/projection documents shall be processed in accordance with .78AC-02206, "Document and Record Turnover Control". These documents may be in the form of the Data Tables in the appendices or computer printouts from CRACS or the IBM PC program.				
4.2 Pre	erequisites				
Non	ie .				

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RELEASE RATE DETERMINATION G Page 6 of 23 4.3 Instructions ACTE NOTE A section 4.3.1 for actual releases through the Plant Vent, Fuel Building Vent Exhaust and/or Condenser Air Removal System. If the release is through the main steam lines only, proceed to Section 4.3.2. If it is desired to predict release rates from containment, proceed to Section 4.3.3. 4.3.1 Determination of Activity Release Rate From an Effluent Release Point (Appendix A) A.3.1.1 Complete Section A of Appendix A, "Release Rate Determination From an Effluent Release Point" and obtain RMS data and monitor channel number from RP office or Control Room to determine the monitor correction factor from Appendix B. 4.3.1.2 From the Control Room, determine which fans are operatin and complete Section B. If fan operating information is not available, assume that all fans are running. Total plant release rates is the sum of the individual pathway release rates. 4.3.1.3 Complete Section C using the Total Noble Gas Release Rate from Section B and the values listed in Appendix C. 4.3.1.3 Complete Section C using the Total Noble Gas Release Rate from Section B and the values listed in Appendix C. 4.3.1.4 If a release is in progress via the main steam lines, continue with Section 4.3.2; if not, perform offsite dos projections in accordance with EPIP-148, "Initial Dose Assessment".		ERGENCY PLAN NG PROCEDURE	PROCEDURE NO. EPIP-14A	
 NOTE Section 4.3.1 for actual releases through the Plant Vent, Fuel Building Vent Exhaust and/or Condenser Air Removal System. If the release is through the main steam lines only, proceed to Section 4.3.2. If it is desired to predict release rates from containment, proceed to Section 4.3.3. 4.3.1 Determination of Activity Release Rate From an Effluent Release Point (Appendix A) 4.3.1.1 Complete Section A of Appendix A, "Release Rate Determination From an Effluent from RP office or Control Room to determine the monitor correction factor from Appendix B. 4.3.1.2 From the Control Room, determine which fans are operating and complete Section B. If fan operating information is not available, assume that all fans are running. Total plant release rates is the sum of the individual pathway release rates. 4.3.1.3 Complete Section C using the Total Noble Gas Release Rate from Section B and the values listed in Appendix C. 4.3.1.4 If a release is in progress via the main steam lines, continue with Section 4.3.2; if more perform offsite dos projections in accordance with EPIP-168. "Initial Dose 	RELEASE RAT	TE DETERMINATION		Page 6 of 23
 from Section B and the values listed in Appendix C. 4.3.1.4 If a release is in progress via the main steam lines, continue with Section 4.3.2; if not, perform offsite dos projections in accordance with EPIP-14B. "Initial Dose 	4.3 Instruct Us th ar po to 4.3.1 Det <u>Rei</u> 4.3.1.1	NOTE Se Section 4.3.1 for act the Plant Vent, Fuel Buil ad/or Condenser Air Remo alease is through the mat roceed to Section 4.3.2. redict release rates from Section 4.3.3. Complete Section A of Determination of Activity lease Point (Appendix A) Complete Section A of Determination From an RMS data and monitor of Control Room to determ from Appendix B. From the Control Room, and complete Section B not available, assume plant release rate is	ual releases throu ding Vent Exhaust val System. If th in steam lines onl If it is desired m containment, pro Release Rate From Appendix A, "Relea Effluent Release P hannel number from ine the monitor co determine which f . If fan operatin that all fans are	gh e y, to ceed an Effluent se Rate oint" and obtain RP office or rrection factor ans are operatin g information is running. Total
continue with Section 4.3.2; if not, perform offsite dos projections in accordance with EPIP-14B. "Initial Dose	4.3.1.3	Complete Section C usi from Section B and the	ng the Total Noble values listed in	Gas Release Rat Appendix C.
	4.3.1.4	continue with Section projections in accorda	4.3.2; if not, per	form offsite dos
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	PVNGS EMERGEN MPLEMENTING PR		PROCEDURE NO. EPIP-14A	
 4.3.2 Determination of Activity Release Rate From the Main St Lines (Appendix D) NOTE Due to the low effective energy, Main Steam Line Monitors will not detect a noble gas release under maximum design operating parameters (1% Failed Fuel; FSAR Chapter 11). If Main Steam Line Monitor readings are above normal operating background levels then severe core degradation should be assumed and the higher source term values of total core inventory should be used for release rate and dose projection calculations. Notify the Shift Supervisor or Radiation Protection Coordinator (if present) immediately. 4.3.2.1 Complete Section A of Appendix D, "Release Rate Determination from Main Steam System". 4.3.2.2 Enter the value of the higher reading monitor for to affected steam generator in Section B of Appendix D pg. 1. (Ex. If only one steam generator is exhibit primary to secondary lealage, enter the higher value between the A & B channel for this steam generator. both steam generators exhibit primary to secondary then the higher channel for bath RU-139 and RU-140 	RELEASE RATE DETER			Page 7 of 23
 Lines (Appendix D) NOTE Due to the low effective energy, Main Steam Line Monitors will not detect a noble gas release under maximum design operating parameters (1% Failed Fuel; FSAR Chapter 11). If Main Steam Line Monitor readings are above normal operating background levels then severe core degradation should be assumed and the higher source term values of total core inventory should be used for release rate and dose projection calculations. Notify the Shift Supervisor or Radiation Protection Coordinator (if present) immediately. 4.3.2.1 Complete Section A of Appendix D, "Release Rate Determination from Main Steam System". 4.3.2.2 Enter the value of the higher reading monitor for the affected steam generator in Section B of Appendix D pg. 1. (Ex. If only doe steam generator is exhibit primary to secondary leakage, enter the higher value between the A & B channel for this steam generator. both steam generators exhibit primary to secondary then the higher channel for both RU-139 and RU-140 				ACN #0.
be entered and the releases added together.)	Lines (App Due t Line relea param 11). are a then assum total relea calcu or Ra prese 4.3.2.1 Comple Determ 4.3.2.2 Enter affect pg. 1. primar betwee both s	<u>NOTE</u> o the low effective Monitors will not de se under maximum des eters (1% Failed Fue If Main Steam Line bove normal operatin severe core degradat ed and the higher so core inventory shou se rate and dose pro lations. Notify the distion Protection C nt) immediately. te Section A of Appe ination from Main St the value of the hig ed steam generator in (Ex. If only one y to secondary leaka n the A & B channel team generators exhi	energy, Main S tect a noble g ign operating 1; FSAR Chapte Monitor readin g background X ion should be urce term valu ld be used for jection Shift Supervi oordinator (if ndix D, "Relea eam System". her reading mon n Section B of steam generator ge, enter the 1 for this steam	team as r gs evels es of sor se Rate nitor for the Appendix D, r is exhibiting higher value generator. If secondary leak
4.3.2.3 Multiply the higher monitor reading from RU-139 A or and/or RU-140 A or B by the Correction Factor shown to obtain Steam Line Concentration. Record in Sect	4.3.2.3 Multip and/or	ered and the release ly the higher monito RU-140 A or B by th	s added togeth r reading from e Correction F	RU-139 A or B

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		EMERGENCY PLAN ENTING PROCEDURE	PRC NO.	EPIP-14A		
RELEAS	E RATE	DETERMINATION	REV	ISION 6	Page 7a of 23	
4.3.2	Determ Lines	ination of Activity Release (Appendix D)	e Rate From	the Main Steam	1	
· · · · ·		NOTE				1
		If Both channels of either inoperable, default values Steam Line Release Rotes. based on the Steam Generat Analysis from CESSAR 15.6:	s should be The follo for Tube Ru	used for Main wing values are	•	
		Main Steam Safety Valve Re	elease	NOBLE GAS 2.39 Ci/sec	IODINES .318 Ci/sec	
		Atmospheric Dump Valve Ope	eration			
		0-2 Hours after shut 2-8 Hours after shut		3.87E-2 Ci/sec 2.77E-2 Ci/sec	5.15E-3 Ci/sec 3.69E-3 Ci/sec	
4.3.2.1	Comple Main S	te Section A of Appendix D, team System".	"Release	Rate Determina	tion from	•
4.3.2.2	genera genera value steam channe	the value of the higher reator in Section B of Appenditor is exhibiting primary to between the A & B channel for generators exhibit primary 1 for both RU-139 and RU-14 together).	ix D, pg. 1 to secondar for this st to seconda	(Ex. If only y leakage, ente eam generator. ry leaks then t	one steam r the higher If both he higher	
4.3.2.3	A or B centra	ly the higher monitor readi by the Correction Factor s tion. Record in Section B oncentration.	shown below	to obtain Stea	m Line Con-	
			1001010101			

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-14A	
RELEASE RATE DETERMINATION	REVISION 6 Page 8 of	£ 23
Monitor Correction Fac	ctors (4.3.2.3) Monitor (hr-	
Age (HR)	Correction Factor (mr-c	
0 .5	.078	
1.0	.11	
1.5 , 2.0 2.5	.11 .13 .17	
1.5 ,	.11 .13	

4.3.2.4 Record Noble Gas Concentration in microcuries per cubic centimeter for each monitor used in Section B.

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NOTE

5.2

15.6

Reactor Coolant System Temperature is used as steam temperature for steam density compensation.

- 4.3.2.5 Obtain from the Control Room the Reactor Coolant System (RCS) temperature in degrees Fahrenheit and steam line flow rates in pounds per hour. Record flow rates in Section B.
- 4.3.2.6 Using RCS temperature and page 3 of Appendix D, select the appropriate Conversion Factor and record in Section B.
- 4.3.2.7 Complete Section B by multiplying Noble Gas Concentration by Conversion Factor and Steam Flow Rate.
- 4.3.2.8 Complete Section C using Total Noble Gas Release Rate from Section B and values listed in Appendix C (Total Core Inventory) for Total I/NG ratio and I-131/Total I ratio for given effective age.
- 4.3.2.9 Add noble gas and I-131 release rates to those determined in Section 4.3.1, if applicable, and perform offsite dose projections in accordance with EPIP-148.

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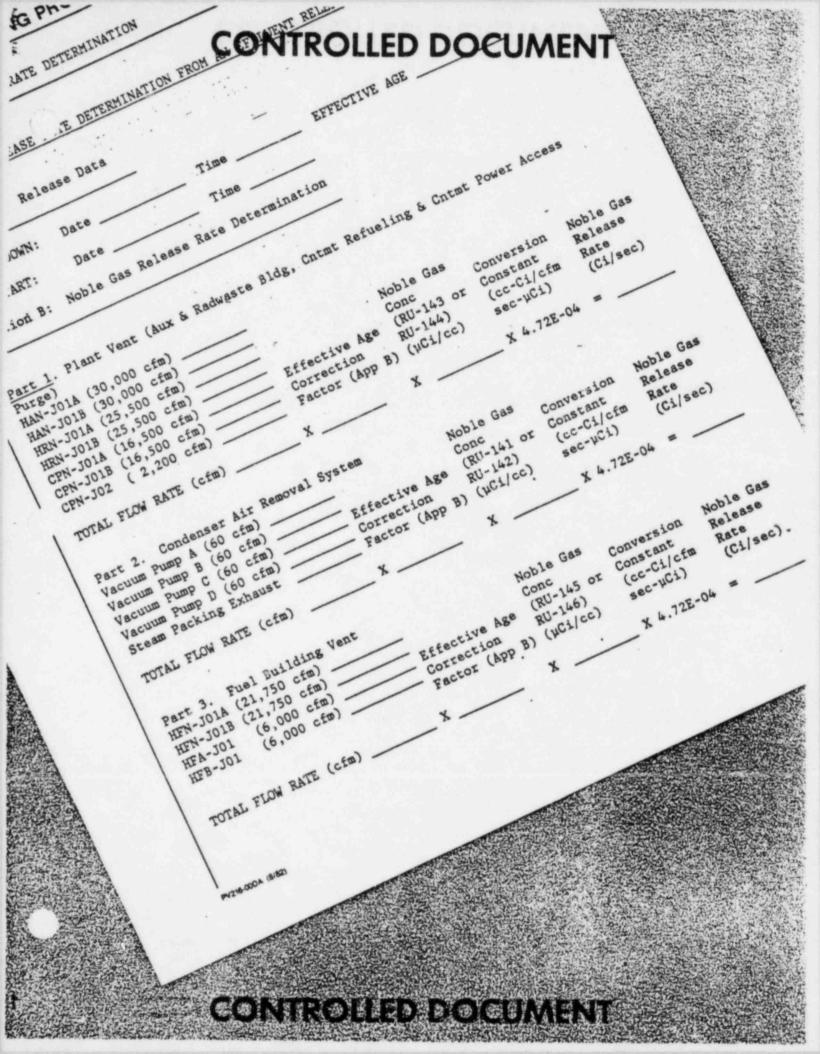
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	ERGENCY PLAN NG PROCEDURE	PROCEDURE NO. EPIP-14A	· · .
RELEASE RA	TE DETERMINATION	REVISION 6	Page 9 of 23
De	lease Rate Projections F sign Basis Leak Rates an ntainment Radiation Moni	d Area Monitors or 1	tainment Using External
-		NOTE	
	of these numbers a soon as possible of measurements and/of the area monitors inoperative process	or lab analysis. If , RU-148 or RU-149, ed to Appendix E, of external contains	is f are
4.3.3.1	Complete Appendix E, pa tables in Appendix E.	age 1 using the inst	ructions and
4.3.3.2	Enter the Core Damage H Appendix E in Section H	Estimate found in Se C of page 1, Appendi	ection 1.2.13 of Lx E.
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	EMERGENCY PLAN INTING PROCEDURE	PROCEDURE NO. EPIP-14A	APPENDIX A Page 2 of 2
DETEAC		REVISION	
RELEAS	E RATE DETERMINATION	6	Page 11 of 23
	EFFLUENT NOBLE GAS RELEASE RA		1% Failed Fue
		-	Total Core Inventory
Noble Gas Release Rate	Total Iodine to Noble Gas	Total Iodine	
(Section B) (Ci/sec)	Ratio Volatile (Appendix C) Factor	Release Rate (Ci/sec)	
X	X .25 =		
Total Iodine Release Rate		I-131	
(Ci/sec)	Ratio (Appendix C) X =	Release Rate (Ci/sec)	

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-14A	APPENDIX B Page 1 of 1
	REVISION	
RELEASE RATE DETERMINATION	6	Page 12 of 2
		1
EFFECTIVE AGE CORRECTION FACTORS F	FOR THE EFFLUENT M	INITORS
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	S EMERGEN		PROCEDURE NO. EPIP-14A	APPENDIX C Page 1 of 1
			REVISION	
KELE	ASE RATE DETERM	- 6	Page 13 of 23	
·	1% FAILED FUEL Relative	Relative	Relative	INVENTORY
#1. · · · · · · · · ·	Kelesse Kate	Palassa Pata	Palaana Dat	Dalara Date
age (III)	Ratios of Total I/NG	Ratios of I-131/Total I	Ratios of Total I/NG	Ratios of I-131/Tot I
	• ··· ···· · · · ·			
0-1		.28	1.5	. 14
1-10	.25	.35	1.5	25
10-100	.16	.75		.75
>100	.3	1.0	1.2	1.0
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-14A	APPENDIX D Page 1 of 3
Sector States and the sector states and the	REVISION	
RELEASE RATE DETERMINATION	6	Page 14 of 2
RELEASE RATE DETERMINATION F	ROM MAIN STEAM SY	STEM
Section A: Release Data		
REACTOR SHUTDOWN: Date	_ Time	
RELEASE START: Date	_ Time	
	EFFECTIVE AGE:	
Section B: Noble Gas Release Rate Determin	nation	
NOTE: Enter N/A for non-affected		
	steam generator.	
Monitor Monitor Monitor		eam Line -
Number Reading Correction F		centration
(mr/hr)	(µCi/cc)
RU-139 X		
(higher reading channel, if applicable)		
11 1 1 0		
48	-	
XU-140 X (higher reading channel, if applicable)		
48		
(higher reading channel, if applicable)		
higher reading channel, if applicable) Noble Gas Steam Density		Noble Gas
Noble Gas Steam Density Concentration Conversion Fac	ctor Flow	Release Rate
(higher reading channel, if applicable) Noble Gas Steam Density Concentration Conversion Fac (µCI/cc) (cc-Ci-hr/lb-µ0	ctor Flow Ci-sec) (lb/hr)	Release Rate (Ci/sec)
(higher reading channel, if applicable) Noble Gas Steam Density Concentration Conversion Fac (µCI/cc) (cc-Ci-hr/lb-µ0	ctor Flow	Release Rate (Ci/sec)
(higher reading channel, if applicable) Noble Gas Steam Density Concentration Conversion Fac (µCI/cc) (cc-Ci-hr/lb-µ) RU-139 X	ctor Flow Ci-sec) (lb/hr) X	Release Rate (Ci/sec)
(higher reading channel, if applicable) Noble Gas Steam Density Concentration Conversion Fac (µCI/cc) (cc-Ci-hr/lb-µ) RU-139X	ctor Flow Ci-sec) (lb/hr)	Release Rate (Ci/sec)
(higher reading channel, if applicable) Noble Gas Steam Density Concentration Conversion Fac (µCI/cc) (cc-Ci-hr/lb-µ(RU-139 XX	ctor Flow Ci-sec) (lb/hr) X X	Release Rate (Ci/sec) =
(higher reading channel, if applicable) Noble Gas Steam Density Concentration Conversion Fac (µCI/cc) (cc-Ci-hr/lb-µ) RU-139 X	ctor Flow Ci-sec) (lb/hr) X	Release Rate (Ci/sec) =
(higher reading channel, if applicable) Noble Gas Steam Density Concentration Conversion Fac (µCI/cc) (cc-Ci-hr/lb-µ(RU-139 X RU-139 Noble Gas	ctor Flow Ci-sec) (lb/hr) X X RU-140 Noble Gas	Release Rate (Ci/sec) = = s Total Noble Gas Release
(higher reading channel, if applicable) Noble Gas Steam Density Concentration Conversion Fac (µCI/cc) (cc-Ci-hr/lb-µ(RU-139 X RU-139 Noble Gas	ctor Flow Ci-sec) (lb/hr) X X RU-140 Noble Gas	Release Rate (Ci/sec) = = s Total Noble Gas Release

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE				PROCEDURE NO. EPIP-14A	APPENDIX D Page 2 of 3
			REVISION		
RELE	ASE RATE I	ETERMINAT	TION	6	Page 15 of 23
				(Use Total Core in App. C)	
oble Gas					
Release Rate (Section B) (Ci/sec)	Total I to Nobl Rati (Append	e Gas	Volatility Factor	Total Iodine Release Rate (Ci/sec)	
	x	X	.01		
Cotal Iodine Release Rate (Ci/sec)	Ra	total lod tio ndix C)		I-131 Release Rate (Ci/sec)	
	x		-	•	-
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			1.11		
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-14A	APPENDIX D Page 3 of 3
RELEASE RATE DETERMINATION		REVISION 6	Page 16 of 23
Reactor Coolant System/Steam Temperature(°F)		ensity tion Factor <u>r/lb-</u> μ <u>Ci-sec)</u>	
- 200	2.0	65E-04	
220	1.0	32E-04	
240	1.3	28E-04	
260	9.3	25E-05 -	
280	6.8	81E-05	
300		08E-05	
320		36E-05	
340	2.9	7E-05	
360	2.3	33E-05	
380	1.8	34E-05	
400	1.4	7E-05	
420	1.1	L8E-05	
440	9.5	58E-06	
460	7.8	31E-06	
480	6.4	2E-06	
500	5.3	31E-06	
520	4.3	9E-06	
540		7E-06	
560		06E-06	
580		3E-06	
600		0E-06	
620		4E-06	
640		2E-06	
660		4E-06	

8.75E-07

NOTE

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The Steam Density Conversion Factor compensates for steam density changes, converts µCi to Ci, and converts flow rate to release rate.

This table was developed from Table 1 of the ASME Steam Tables using the specific volume (ft^3/lb) of saturated vapor at a given temperature (°F).

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	REVISION	
RELEASE RATE DETERMINATION	6 P	age 17 of 23
RELEASE RATE PROJECTION FROM AN ISOLA LEAK RATES AND AREA MONITORS OR EXTER	TED CONTAINMENT USING DI NAL CONTAINMENT RADIATIO	SIGN BASIS
Section A: Plant Data		
REACTOR SHUTDOWN: Date	Time	
RELEASE START: Date	Time	
	EFFECTIVE AGE:	
RU-148 reading or: r/hr Table 2 Correlation	RU-149 reading or: Table 2 Correlation	r/1
(Section A)		
(Section A) (r/hr) Section C: Noble Gas Release Rate Project	on based on area monito	ors
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected	on based on area monito	ors
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected	Projected	brs
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers	Projected on Noble Gas	ors
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers (Table 1) (Tech Specs) Constan	Projected on Noble Gas Release Rate	ors
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers (Table 1) (Tech Specs) Constan	Projected on Noble Gas Release Rate	ars
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers (Table 1) (Tech Specs) Constan (µCi/cc) (cc/sec) (µCi to X 8.52E+02 X 1E-06	on Noble Gas Release Rate Ci) (Ci/sec)	275
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers (Table 1) (Tech Specs) Constan (µCi/cc) (cc/sec) (µCi to X 8.52E+02 X 1E-06 Section D: I-131 Release Rate Projection	on Noble Gas Release Rate Ci) (Ci/sec)	975
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers (Table 1) (Tech Specs) Constan (µCi/cc) (cc/sec) (µCi to X 8.52E+02 X 1E-06 Section D: I-131 Release Rate Projection Projected	on Noble Gas Release Rate Ci) (Ci/sec) =	75
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers (Table 1) (Tech Specs) Constan (µCi/cc) (cc/sec) (µCi to X 8.52E+02 X 1E-06 Section D: I-131 Release Rate Projection Projected Iodine Projected Concentration Leak Rate Conversion	on Projected Noble Gas Release Rate (Ci/sec) = ased on area monitors Total	brs
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers (Table 1) (Tech Specs) Constan (µCi/cc) (cc/sec) (µCi to X 8.52E+02 X 1E-06 Section D: I-131 Release Rate Projection Projected Iodine Projected Concentration Leak Rate Conversion (Table 1) (Tech Specs) Constant	on Noble Gas Release Rate Ci) (Ci/sec) =	ors
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers (Table 1) (Tech Specs) Constan (µCi/cc) (cc/sec) (µCi to X 8.52E+02 X 1E-06 Section D: I-131 Release Rate Projection Projected Iodine Projected Concentration Leak Rate Conversion (Table 1) (Tech Specs) Constant	on Noble Gas Release Rate Ci) = (Ci/sec) ased on area monitors Total Icdine	7.5
(r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers (Table 1) (Tech Specs) Constan (µCi/cc) (cc/sec) (µCi to X 8.52E+02 X 1E-06 Section D: I-131 Release Rate Projection Projected Iodine Projected Concentration Leak Rate Conversion (Table 1) (Tech Specs) Constant (µCi/cc) (cc/sec) (µCi to Ci) X 8.52E+02 X 1E-06	on Projected Noble Gas Release Rate (Ci/sec) = ased on area monitors Total Icdine Release Rate	
(Section A) (r/hr) Section C: Noble Gas Release Rate Project Projected Noble Gas Projected Concentration Leak Rate Convers (Table 1) (Tech Specs) Constan (µCi/cc) (cc/sec) (µCi to X 8.52E+02 X 1E-06 Section D: I-131 Release Rate Projection Projected Iodine Projected Concentration Leak Rate Conversion (Table 1) (Tech Specs) Constant (µCi/cc) (µCi to Ci)	on Projected Noble Gas Release Rate (Ci) = ased on area monitors Total Icdine Release Rate able 1 (Section 1.2.13)	

from Intern 1.0 Containment Airbo 1.1 Summary: The indi in-c conc in t rela from iden cons 1.2 Instructions 1.2.1 Enter time, 1.2.2 This nomogr in-containm from the hi available o	g Containment Air hal and External orne Concentration Nomograph in tab icated dose rate containment area centrations of ei- the containment. ated to the externa the reactor coon tifies core dama sideration.	REVISION 6 rborne Concentrat Containment Monifon Estimation Usin on Estimation Usin ble 1 of this app at either high r monitor to the a ither noble gases As the airborne at of core damage olant system) the age after taking of in legend space	tors ng RE-148, RE-149 endix relates the ange irborne or radioiodines concentration is (given releases nomograph also decay into
from Intern 1.0 Containment Airbo 1.1 Summary: The indi in-c conc in t rela from iden cons 1.2 Instructions 1.2.1 Enter time, 1.2.2 This nomogr in-containm from the hi available o Correlation	Nomograph in table icated dose rate containment area centrations of eithe containment. ated to the exter the reactor contain tifies core dama sideration.	Containment Moni on Estimation Usin ble 1 of this app at either high r monitor to the a ither noble gases As the airborne at of core damage blant system) the age after taking	tors ng RE-148, RE-149 endix relates the ange irborne or radioiodines concentration is (given releases nomograph also decay into
 1.1 Summary: The indi in-c conc in t rela from iden cons 1.2 Instructions 1.2.1 Enter time, 1.2.2 This nomogr in-containm from the hi available o Correlation 	Nomograph in table cated dose rate containment area centrations of ei- the containment. ated to the exter the reactor coo tifies core dama sideration.	ble 1 of this app at either high r monitor to the a ither noble gases As the airborne at of core damage plant system) the age after taking of	endix relates the ange irborne or radioiodines concentration is (given releases nomograph also decay into
1.2.1 Enter time, 1.2.2 This nomogr in-containm from the hi available o Correlation	date, and name	in legend space	on table 1.
1.2.2 This nomogr in-containm from the hi available o Correlation	date, and name	in legend space	on table 1.
	agher reading mon or of questionabl	ta from either hi -148 or RE-149). hitor. If monito le validity, refe ntainment Monitor	Obtain a reading r data are not r to Sect. 2.0.
1.2.3 Enter monit	or number and re	ading (R/hr) on	table 1.
1.2.4 Locate the	right hand verti	ical axis labeled	Rem/hr.
1.2.5 Make a mark the radiati	t on the axis at ion monitor read;	a point responding.	ng to the value o

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	EMERGENCY PLAN	PROCEDURE NO. EPIP-14A	APPENDIX E Page 3 of 7
RELEASE	RATE DETERMINATION	REVISION 6	Page 19 of 23
1.2.6	Locate the portion of the Shutdown."	horizontal axis la	beled "Time After
1.2.7	Mark the axis at the time the mixture in containment	corresponding to e	ffective age of
1.2.8	Draw a vertical line throu After Shutdown" axis.	gh the time marked	on the "Time
1.2.9	Draw a horizontal line from the left until it intersect 1.2.8.	m the mark on the t ts the vertical lin	Rem/hr axis to ne drawn in step
1.2.10	Draw a curved line up and for the monitor being used line intersects the axis m point of intersection.	(RE-148 or RE-149) to where the
1.2.11	Draw a horizontal line to "Reference Rem/hr" axis th	the left from the rough the "Core Dan	mark on the mage" axes.
1.2.12	Identify the "Core Damage" monitor being used (RE-148 point that it is intersect	or RE-149). Mark	that axis at the
1.2.13	Read the core damage estimates 1.2.12.	ate at the point m	arked in step
1.2.14	Extend the vertical line di intersects the curve correct the detector used (RE-148 curve is the uppermost curve	sponding to 100% co or RE-149). The 10	ore damage for
1.2.15	Draw a horizontal line to a step 1.2.14 to the interset this point.	the right from the ction of the "Rem/I	point made in hr" axis and mark
1.2.16	Locate the "Rem/hr" scale of the core damage axes. Is corresponding to the value	Mark the point on t	axis to the left the "Rem/hr" axis
1.2.17	Draw a vertical line through	ah this paint inter	and the second

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	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE			PROCEDURE NO. APPENDIX I EPIP-14A Page 4 of	
	RELEASE	RATE DETERMINATI	ON	REVISION 6	- Page 20 of 23
-	1.2.18	Mark the interse and iodine curve RE-149).	ction of the s for the mon	vertical line w nitor being used	ith the noble gas (RE-148 or
	1.2.19	"Normalization F	actor" portio	on. Mark the ax	ate the is at the point ad in step 1.2.13
	1.2.20	Draw a vertical at the value mar	line through ked above.	the "Normalizat	ion Factor" axis
	1.2.21	Draw a horizontal line to the left from the point on the iodine curve marked in 1.2.18 until it intersects the vertical drawn in 1.2.20. Mark this intersection.			
	1.2.22	Draw a line down the intersection the heavy diagon until it interse "µCi/cc." Mark	al lines alrest at the left	.2.21 (this line eady drawn on th	will parallel e nomograph)
	1.2.23	Read the value m Appendix E, as t	arked in 1.2 he iodine com	.22 and record t acentration.	he value in
	1.2.24	Repeat steps 1.2	.21 through	1.2.23 for the n	oble gas curve.
2.0		inment Airborne C mal to Containmen	oncentration t.	Estimation Usin	g Area Monitors
2	.1 This moni	s section is to b itors are not ope	e used when t rable or the	the containment readings are su	high range spect.
	2.1.1	The following ex In-containment h readings are sus	igh range mon	tors may be used nitors are inope	when the rative or their
	2.1.1	.1 RE-158 B&C	Accident ran monitors, th of 0.1 to 10	nge external con hey are ion cham 0,000 R/hr.	tainment area bers with a range
	2.1.1.	2 RE-37&RE-38		s Purge Area (PA tubes with a ra	PA) monitors, nge of 0.1 to

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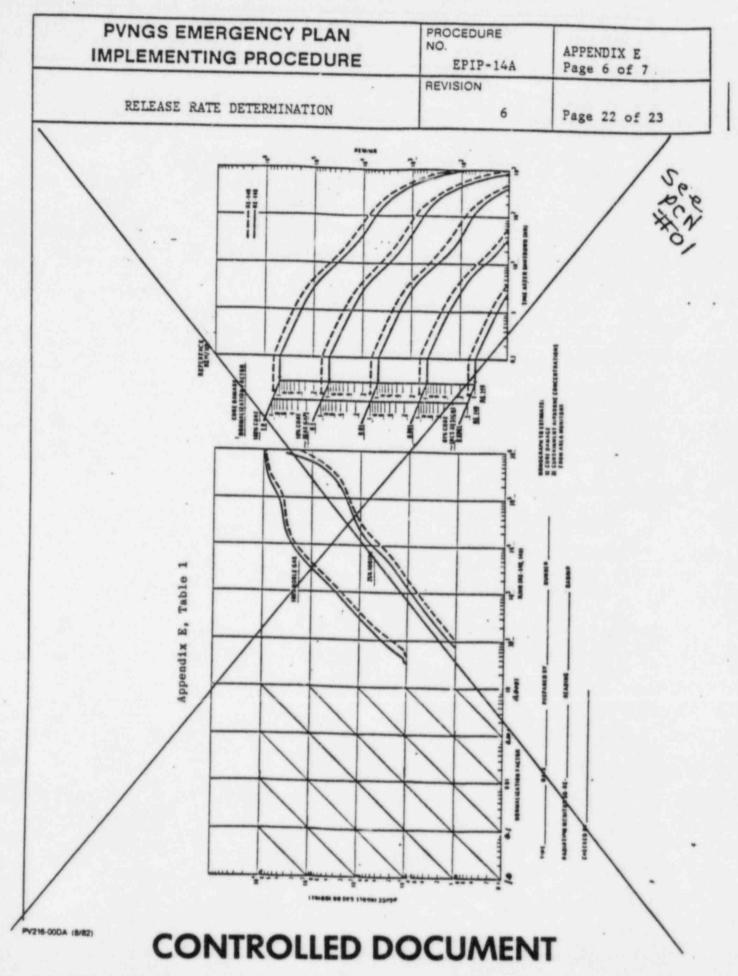
PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-14A	APPENDIX E Page 5 of 7
RELEASE RATE DE	TERMINATION	REVISION 6	Page 21 of 23
2.2 Instruction 2.2.1 Obtain	outside o by the te should ha Two instr range (e. s a reading from one	e instrument, held of containment on the indon gallery. This we a range of 0.1 is uments may be requi- g., an RO-2 and an of the above instru-	me 104' elevation instrument 10,000 mR/hr. tred to meet this RO-2A).
2.1.1).	ent selected should	be taken in the or	der listed in
2.2.2 On tabl axis la	e 2, mark the instr beled Dose Rate (Re	ument reading on th m/hr).	e horizontal
2.2.3 Draw a interse interse	vertical line up th cts the curve of th ction.	rough this point un e detector used. M	til the line ark this
2.2.4 Draw a interse interse	horizontal line from cts the curves for l ction.	m this point to the RE-148 & 149. Mark	right until it the points of

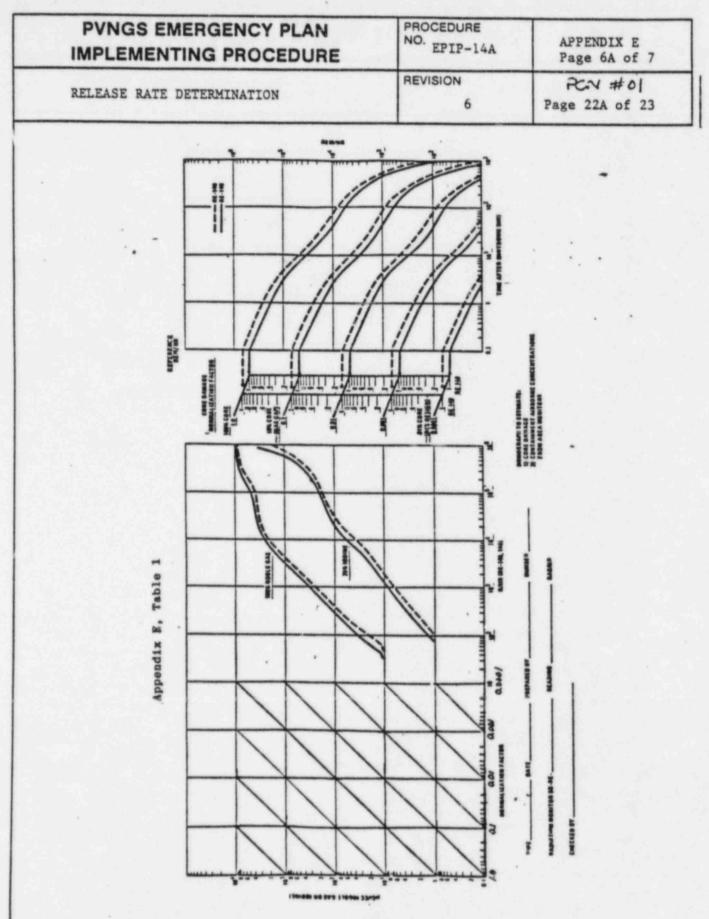
- 2.2.5 Draw a vertical line from these points down to the horizontal axis. Mark the intersections on the axis.
- 2.2.6 Transfer the higher reading from above to the data sheet and go to section 1.0 to determine the containment airborne concentration.

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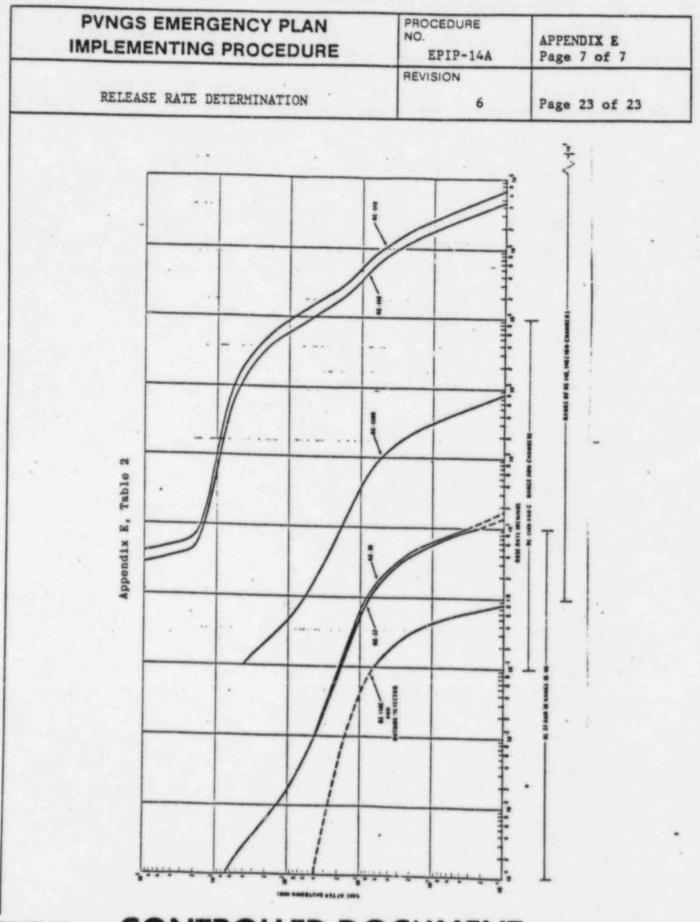
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PALO VERDE NUCLEAR GENERATING STATION ASSIGNED COPY PROCEDURE CHANGE NOTICE PAGE of 1 PVNGS : #8-9B INTENT CHANGE: NO YES 1. PROCEDURE TITLE Protective Action Guidelines 2. PROCEDURE NUMBER EPIP-15 REV. 3 PCN / 2a.Manager concurrence NA DATE to exceed 5 PCNs 3. REASON FOR PCN: To update Protective Retien Recommendations to reflect arrent reculatory guideline 4. EXPIRATION: Next Revision 5. AFFECTED STEPS: CHANGE REQUIRED: Appendix A pg Z Delete page 11. Insert 11a 6. PREPARED BY: ENTERED IN PROCEDURE BY: Geralda. Simele 2/22/85 SIGNATURE DATE SIGNATURE DAT 7. TEMPORARY APPROVAL: SIGNATURE DATE SS/Assist. SS DAT 8. DEPT. MANAGER: PRB/PRC/TRRC: 18% m SIGNATURE SIGNATURE DAT 10. APPROVED BY: DAT 11. DATE EF

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-15	
PROTECTIVE ACTION GUIDELINES	REVISION 3	Page 1 of 15

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PROTECTIVE ACTION GUIDELINES		REVISION 3	Page 2 of 15	
		REVISION H	TSTORY	
Rev. No.				1
	Date	Revised Page	S	Comments /
3 -	au 21. 155	4, 5, 6, 7,1	Corrected	references;
		11, 12, 13	revised p	rocedure to match
			writers g	uide; corrected
			referrals	to personnel
			responsib	ilities; Contern
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-15	
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2.0	REFERENCES	4
3.0	LIMITATIONS AND PRECAUTIONS	4
4.0	DETAILED PROCEDURE	5
	 4.1 Personnel Indoctrination/Responsibilities 4.2 Prerequisites 4.3 Instructions 	5 6

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Appendix	A	•	Guidelines for Recommended Protective Actions For Gaseous Plume Exposure	10
Appendix	B	-	Reduction in External Gamma Dose From Passing Cloud	14
Appendix	C	•	Inhalation Shielding Factors for a Wood House Snug Doors, Closed Windows	15

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	EMERGENCY PLAN	PROCEDURE NO. EPIP-15	
ROTECTIVE AC	TION GUIDELINES	REVISION 3	Page 4 of 1
1.1 To ex Pr 2.0 <u>REFE</u>	CTIVE provide a basis for relati posure doses to the Environ otective Action Guides (PAG RENCES	mental Protection A	ted plume agency (EPA)
	plementing References		
	EPIP-14B, "Initial Dose A		
2.1.2	EPIP-17, "Onsite/Offsite	Surveys and Samplin	8" ·
2.1.3	EPIP-03, "NOTIFICATION OF Actions"	UNUSUAL EVENT Impl	ementing
2.1.4	EPIP-04, "ALERT Implement	ing Actions"	
2.1.5	EPIP-05, "SITE AREA EMERG	ENCY Implementing A	ctions"
2.1.6	EPIP-06, "GENERAL EMERGEN	CY Implementing Act	ions"
2.2 De	velopmental References		
2.2.1	NUREG 0654, Rev. 1, "Crit Evaluation of Radiologica Preparedness in Support of	1 Emergency Respons	e Plans and
2.2.2	Manual of Protective Action for Nuclear Incidents; as EPA-520/1-75-001.	on Guides and Prote revised June, 1980	ctive Actions;
2.2.3	PVNGS Emergency Plan, Rev	. 5.	
3.0 LIMI	TATIONS AND PRECAUTIONS		
RE	e protective actions determines esented to appropriate state COMMENDATIONS. Only these plement the protective action	e/county agencies a agencies are author	s

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ROTECTIVE	ACTION GUIDELINES	3	Page 5 of 15
3.2	Protective action recommendat: containment conditions and the when no release is in progress transmitted to government off: "NOTIFICATION OF UNUSUAL EVEN. "ALERT Implementing Actions," Implementing Actions," or EPIN Implementing Actions," depend:	ese recommendations s. These recommend icials using EPIP-O I Implementing Acti	are made even ations are 3, .ons," EPIP-04,
3.3	Protective action guides represent acceptat	esent trigger level	
3.4	PAGs for the general public and dose values should be used if constraints in providing prote constraints may, however, make use, but in no case should the determining a need for protect	there are no major action at this leve the lower values higher value be a	local 1. Local
3.5	The projected dose and affects curies released, release rate, isotopic mixture of the releas and meteorological conditions.	d offsite areas de duration of the r	-1
3.6	At times, selection of protect subjectively as conditions bey exist.	ive actions should wond the scope of t	be considered his procedure
	The protective action recommen actual loss of physical contro mile evacuation.	dation for potential of the facility	al and/or is a 360°, 2
	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.)	affected sector shi (e.g., & plume in	red, the two all be
3.9	Protective actions recommended SHALL NOT be transmitted to th	to state authorit.	ies by ANPP
3.10	Government officials should in implementing protective action	form EC/EOD prior	to
3.11	If actual airborne radioactivi results are available (either	ty, noble gas or in from RMS filter and	dina sample

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field measurements) this information may be used instead of dose projections for making protective action recommendations. CONTROLLED DOCUMENT

	EMERGENCY PLAN	PROCEDURE NO. EPIP-15	
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ROTECTIVE AC	TION GUIDELINES	3	Page 6 of 1
4.0 DETA	ILED PROCEDURE		
4.1 Pe:	rsonnel Indoctrination/Respo	onsibilities	1910-191
4.1.1		lation groups may p	otentially
	receive, are calculated in "Initial Dose Assessment". to as the projected dose	a second and a state way	
		A PICCECTIC ACTI	
	action taken to avoid or n the benefits derived from	reduce this project	ed dose when
	offset any undesirable fea	atures of the prote	ctive action.
4.1.2	The Protective Action Guid		
	projected dose to individu	als in the populat:	ion which
	warrant taking protective effort to minimize the ris	actions. It is use	ad in an
	occurring or has already of	occurred.	ich is
4.1.3	The responsibility for the	decision to notify	and
· · · · · · · · · · · · · · · · · · ·	recommend protective actic	ons to the appropria	te
	authorities belongs to the is relieved of this respon	Emergency Coordina	ator until he
	Operations Director.	Sidility by the Lar	argency
4.1.4	The Radiation Protection 7	echnician of the a	ffected unit
	shall be responsible for i and/or projections.	nitial offsite dose	a calculations
4.1.5	The Radiation Assessment C	cordinator (Radiat:	ion Protection
	Monitor, on shift) shall b refining dose assessments	for critical recent	or site
	locations and evaluating a	ppropriate protect:	ive actions.
4.1.6	The Radiological Protectio	on Coordinator (Rad:	iological
	Assessment Coordinator) sh dose assessment and protect	all be responsible	for relaving
	Emergency Coordinator (Eme	rgency Operations I	lions to the Director).
4.2 Pre	erequisites		
4.2.1	Projected whole body and t	hyroid dose rates	und integrated
	dose for critical receptor	Site locations has	te heen
	calculated in accordance w warrant evaluating, and if	ith EPIP-14B, and s	uch doses
	protective actions.	recomme	manik
			*
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-15	. •	
PROTECTIVE ACT	TION GUIDE	LINES	REVISION 3	Page 7 of 15
4.3 Ins	tructions			,
4.3.1	Radiolog Monitor,	cical Assessment Co onshift) shall:	pordinator (Radiati	on Protection '
4.3.1		uate current plant ential for releases	t status with respe s or increased rele	ases.
4.3.1	site	te and refine dose locations upon s: the following param	e estimates for cri ignificant changes meters:	tical receptor in one or more
	(2) (3)	Release rates. Duration of the re Isotopic mixture of function of effect Meteorological con	of the release (var tive age).	ies as a
4.3.2	shelteri determin describe	ng or evacuation has the effectiveness	r projected doses i be considered per A ss of these protect timates should be o tions Center.	ppendix A, ive actions as
4.3.3	in limit exposure the time	ing radiation dose if a plume is pre-	The effectiveness is a function of esent. This is dep late. The evacuati	the time of endent upon
	T(EV) = Where:	$T_D + T_N + T_M + T_T$		
	T _D =		ared from the point	
		to government to	on recommendation f b evacuate to the a thority to order t	ctual decision by
	T _N =	Time required by to evacuate.	officials to noti	fy people
	т _м =	Time required fo	or people to mobili	ze and

T_T = Travel time required to leave the affected areas.

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windspeed and downs	EPIP-15
 4.3.3.1 If evacuation is completed bettermine the time of exposure necessary to calculate the plut The plume arrival time, T(PA) = T_B + T_{TR} Where: T_B = Time projected before T_{TR} = Time projected for windspeed and down start of release. to procedure EPIP-1 4.3.3.2 Evaluate constraints against estimated evacuation time T(EP) plume arrival time, T(PA). 4.3.3.3 Under the following conditions of sheltering vs. the benefits (1) In cases where there is not to the arrival of the plume 4.3.3.4 If evacuation appears to offer in dose (greater than shelter: to the appropriate county and. 4.3.4 Sheltering Effectiveness 4.3.4.1 If evacuation does not offer a avoidance or if local constraints are recommend that officials warn to: 	ION 3 Page 8 of 1
 then evacuation is 100 percendetermine the time of exposure necessary to calculate the plut The plume arrival time, T(PA) T(PA) = T_B + T_{TR} Where: T_B = Time projected before T_{TR} = Time projected for windspeed and down start of release. to procedure EPIP-1 4.3.3.2 Evaluate constraints against estimated evacuation time T(EPI plume arrival time, T(PA). 4.3.3.3 Under the following conditions of sheltering vs. the benefits (1) In cases where there is not to the arrival of the plume (2) The projected evacuation the plume arrival are nearly of the appropriate county and 4.3.4.1 If evacuation does not offer a avoidance or if local constraines recommend that officials warn to: 	J rage o or 1
 T(PA) = T_B + T_{TR} Where: T_B = Time projected before T_{TR} = Time projected for windspeed and downs start of release. To procedure EPIP-1 4.3.3.2 Evaluate constraints against a sestimated evacuation time T(EV plume arrival time, T(PA). 4.3.3.3 Under the following conditions of sheltering vs. the benefits (1) In cases where there is not to the arrival of the plume arrival are nearly of the plume arrival are nearly of the appropriate county and 4.3.4 If evacuation appears to offer in dose (greater than shelter: to the appropriate county and 4.3.4 If evacuation does not offer in avoidance or if local constraints are commend that officials warn to: 	t effective. To to the plume, it is ume arrival time T(PA).
 Where: T_B = Time projected before T_{TR} = Time projected fore windspeed and downse start of release. to procedure EPIP-1 4.3.3.2 Evaluate constraints against of estimated evacuation time T(EV) 4.3.3.3 Under the following conditions of sheltering vs. the benefits (1) In cases where there is not to the arrival of the plume (2) The projected evacuation the plume arrival are nearly 4.3.3.4 If evacuation appears to offers in dose (greater than shelter: to the appropriate county and) 4.3.4 Sheltering Effectiveness 4.3.4.1 If evacuation does not offer a avoidance or if local constrained avoidance or if local c	is expressed as:
 T_B = Time projected before T_{TR} = Time projected fore windspeed and down start of release. To procedure EPIP-1 4.3.3.2 Evaluate constraints against extimated evacuation time T(EV) plume arrival time, T(PA). 4.3.3.3 Under the following conditions of sheltering vs. the benefits of sheltering vs. the benefits (1) In cases where there is not to the arrival of the plume arrival are nearly (2) The projected evacuation the plume arrival are nearly (3.3.4) If evacuation appears to offer in dose (greater than shelter: to the appropriate county and (4.3.4) Sheltering Effectiveness 4.3.4.1 If evacuation does not offer a avoidance or if local constrained that officials warn to: 	
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 windspeed and down start of release. to procedure EPIP-: 4.3.3.2 Evaluate constraints against e estimated evacuation time T(EV plume arrival time, T(PA). 4.3.3.3 Under the following conditions of sheltering vs. the benefits (1) In cases where there is no to the arrival of the plum (2) The projected evacuation y plume arrival are nearly of 4.3.3.4 If evacuation appears to offer in dose (greater than shelter: to the appropriate county and) 4.3.4 Sheltering Effectiveness 4.3.4.1 If evacuation does not offer s avoidance or if local constrair recommend that officials warn to: 	ore release begins.
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estimated evacuation time T(EV plume arrival time, T(PA). 4.3.3.3 Under the following conditions of sheltering vs. the benefits (1) In cases where there is no to the arrival of the plum (2) The projected evacuation to plume arrival are nearly of 4.3.3.4 If evacuation appears to offer in dose (greater than shelters to the appropriate county and) 4.3.4 Sheltering Effectiveness 4.3.4.1 If evacuation does not offer a avoidance or if local constrais recommend that officials warn to:	
of sheltering vs. the benefit: (1) In cases where there is no to the arrival of the plun (2) The projected evacuation is plume arrival are nearly of 4.3.3.4 If evacuation appears to offer in dose (greater than shelter: to the appropriate county and, 4.3.4 Sheltering Effectiveness 4.3.4.1 If evacuation does not offer is avoidance or if local constrais recommend that officials warn to:	evacuation. Compare the 7) with the estimated
to the arrival of the plum (2) The projected evacuation of plume arrival are nearly of 4.3.3.4 If evacuation appears to offer in dose (greater than shelter: to the appropriate county and) 4.3.4 Sheltering Effectiveness 4.3.4.1 If evacuation does not offer a avoidance or if local constrais recommend that officials warn to:	s evaluate the benefits s of evacuation.
 4.3.3.4 If evacuation appears to offer in dose (greater than shelter: to the appropriate county and) 4.3.4 Sheltering Effectiveness 4.3.4.1 If evacuation does not offer a avoidance or if local constrained recommend that officials warn to: 	o time to evacuate prior me.
in dose (greater than shelter: to the appropriate county and, 4.3.4 Sheltering Effectiveness 4.3.4.1 If evacuation does not offer : avoidance or if local constra: recommend that officials warn to:	time and time before equal.
4.3.4.1 If evacuation does not offer a avoidance or if local constra- recommend that officials warn to:	ing) recommend evacuation
avoidance or if local constra: recommend that officials warn to:	
(1) Seek shelter.	Ints prevent evacuation
(2) Close windows.	
(3) Turn off ventilation syste	ems.
(4) Seal cracks in doors with	wet rags.

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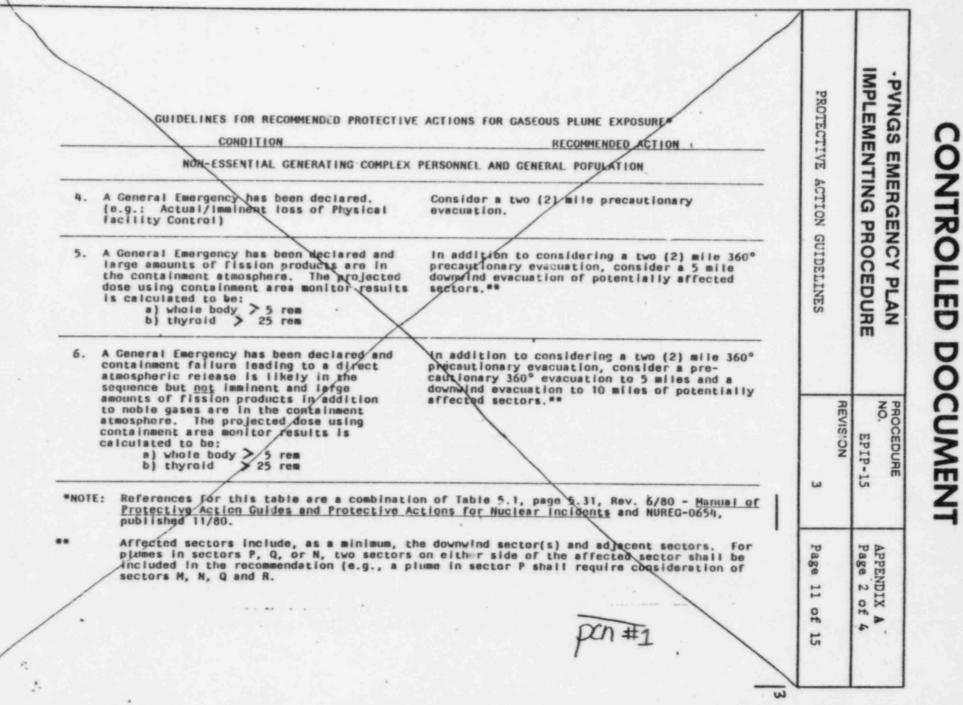
PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-15	
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PROTECTIVE ACTIO	ON GUIDELINES	3	Page 9 of 15
4.3.4.	2 Control access to the	affected area.	,
4.3.5	Evaluate the possibility opassed.	of evacuation after	the plume has'
4.3.5.	After the plume has pa of ground deposition i "Onsite/Offsite Survey	in accordance with	e significance EPIP-17,
4.3.5.:	2 Determine if dose rate subsequent evacuation.		o warrant
4.3.5.:	Multiply the projected factor (Appendix B).	dose by the exter	mal shielding
4.3.5.4	Compare the projected gamma dose (Appendix A	dose to the PAG fo	or whole body
1	Evaluate the significance factors for inhalation dos C). Shielding factors are	es are presented i	n 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
1	Datermine the critical org the thyroid. Compare the organ to the PAG for that	projected dose for	the critical

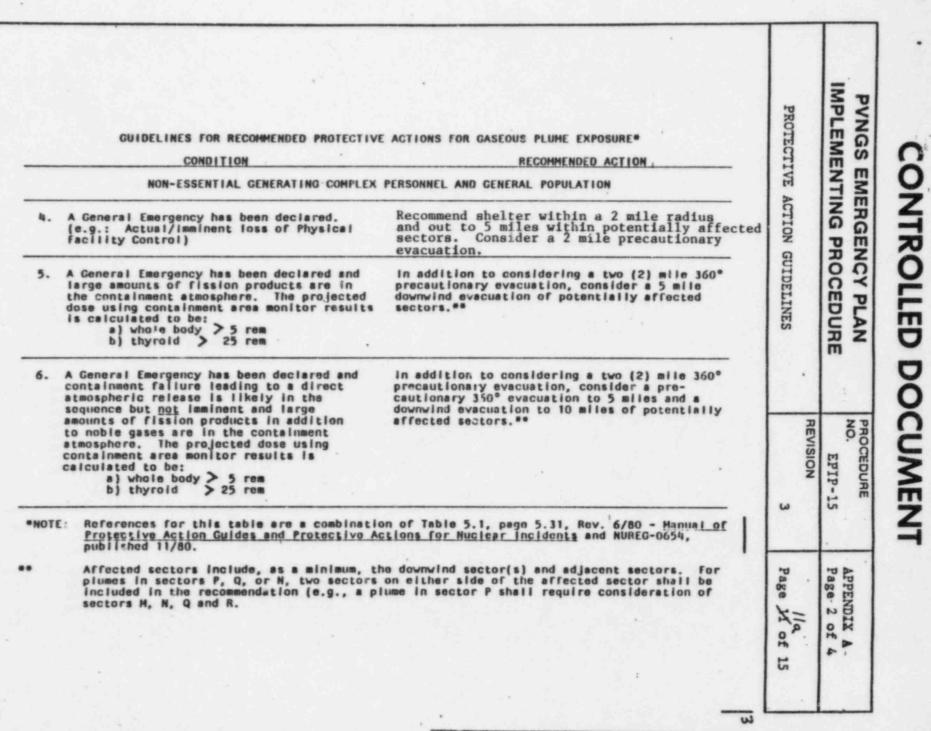
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MPLEMENTING PROCEDURE PVNGS PROTECTIVE CONTROLLED DOCUMENT GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR GASEOUS PLUME EXPOSURE* EMERGENCY CONDITION RECOMMENDED ACTION ACTION NON-ESSENTIAL GENERATING COMPLEX PERSONNEL AND GENERAL POPULATION Notification of Unusual Event declared 1. Inform State & County authorities of indicating that events are in progress GUIDELINES status/cause and based on situation which indicate potential degradation of recommend that no protective action is the level of safety of the plant; however necessary or standby for update if no release of radioactive material situation worsens. PLAN requiring offsite response/monitoring is expected unless further degradation of safety systems occurs. An alert has been declared; any releases 2. inform State & County Authorities of Alert are expected to be limited to small fracstatus/cause and recommend that the public tions of the EPA/PAG exposure levels at be apprised of the situation and stay tuned the site boundary unless further degradato EBS/KIAR radio station. tion of safety systems occur. PROCEDURE NO. REVISION 3. A Site Area Emergency has been declared; Inform State & County authorities of Site Area any releases are not expected to exceed Emergency Status/cause and recommend seeking EPA/PAG exposure levels beyond the site EPIP-15 shelter within a 2 mile radius of the plant boundary unlass further degradation of and within 10 miles in affected sectors as safety systems occur. warranted based on plant/containment conditions. w *NOTE: References for this table are a combination of Table 5.1, page 5.31, Rev. 6/80 - Manual of Protective Action Guides and Protective Actions for Nuclear Incidents and NUREG-0654. published 11/80. ** Affected sectors include, as a minimum, the downwind sector(s) and adjacent sectors. For plumes in sectors P, Q, or N, two sectors on oither side of the affected sector shall be Page APPEND: Page 1 included in the recommendation (e.g., a plume in sector P shall require consideration of sectors M, N, Q and R. 10 of of * 5

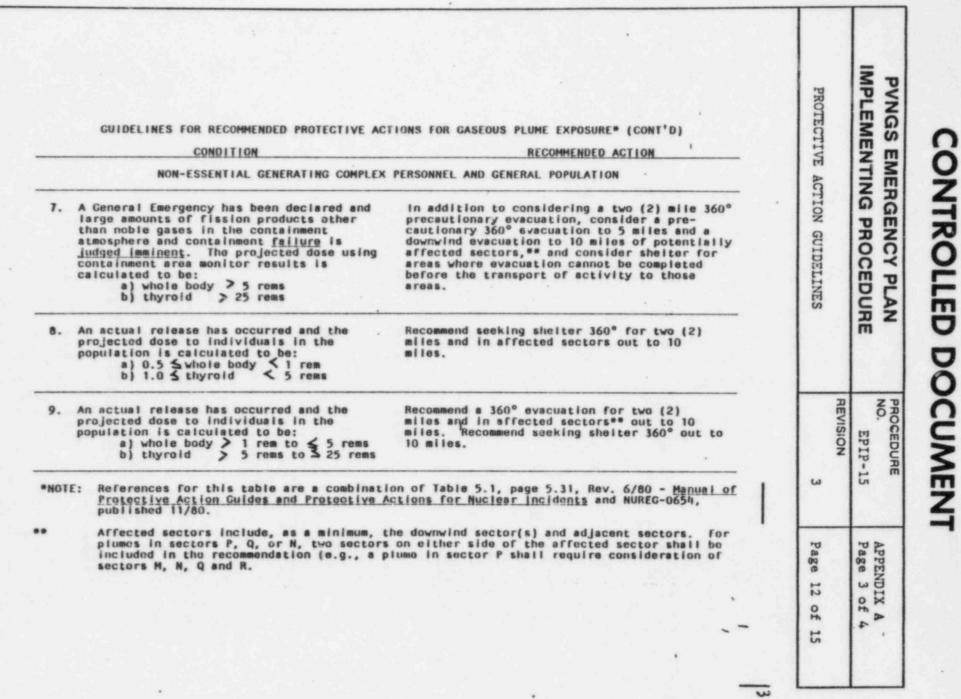
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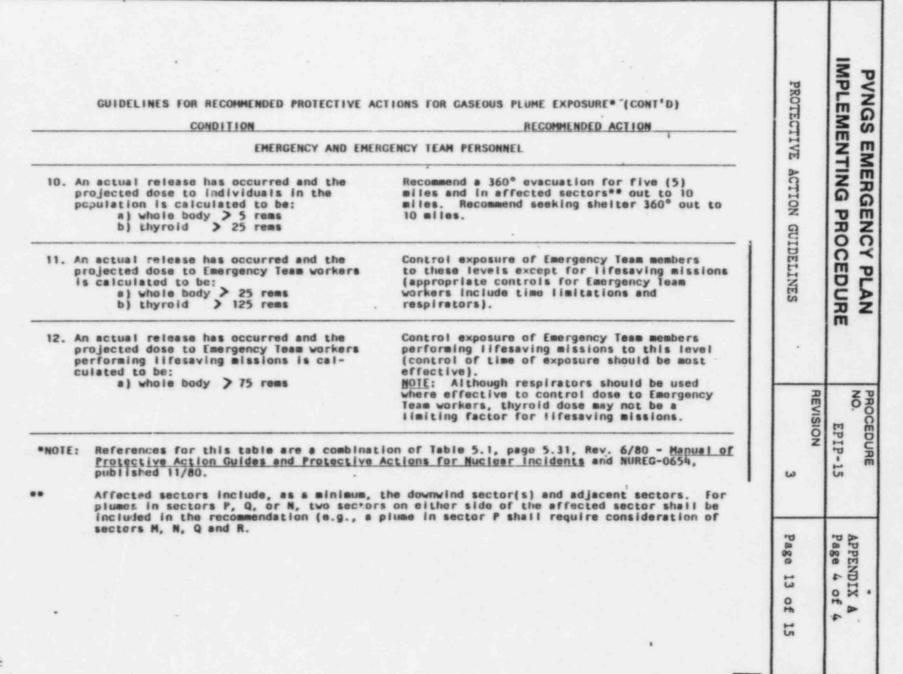




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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-15	APPENDIX B Page 1 of 1
PROTECTIVE ACTION GUIDELINES	REVISION 3	Page 14 of 15

REDUCTION IN EXTERNAL GAMMA DOSE FROM PASSING CLOUD

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

NOTES :

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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).

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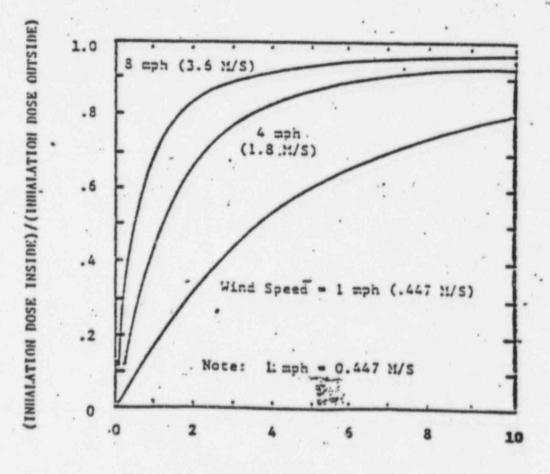
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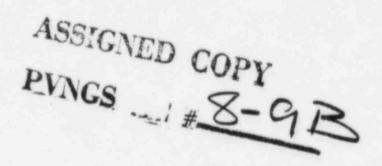
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INHALATION SHIELDING FACTORS FOR A WOOD HOUSE, SNUG DOORS, CLOSED WINDOWS



EXPOSURE TIME (HRS)

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DEPT. HEAD Harry & Bieling to Donais Your DATE 12/4/19 PRB/PRG/TRRG REVIEW AN BULLINGILL DATE 1/2/ APPROVED BY DATE _4 EFFECTIVE DATE 01-15-86 DN-1586A/0188A

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Rev. No.	Date	Revised Page	s		Comments	
3	05-10-85	4,5,6,7,10,	696	Revised to	update	
		18		references	and clarify	
				portions o	f text of	
				procedure.		
4	01.14.186		_	Deleted Ch	ecklists	
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-19	
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3.0	LIMITATIONS AND PRECAUTIONS	4
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	 4.1 Personnel Indoctrination/Responsibilities 4.2 Prerequisites 4.3 Instructions 	5 5 6

APPENDICES

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ONSITE EVACUATION	4	Page 4 of 19

1.0 OBJECTIVE

1.1 To provide guideline information pertinent to evacuation of onsite personnel including company, construction, contractors and visitors who are not engaged in emergency response activities.

2.0 REFERENCES

- 2.1 Implementing References
 - 2.1.1 EPIP-04, "ALERT Implementing Actions"
 - 2.1.2 EPIP-05, "SITE AREA EMERGENCY Implementing Actions"
 - 2.1.3 EPIP-06, "GENERAL EMERGENCY Implementing Actions"
 - 2.1.4 EPIP-11, "Technical Support Center/Satellite TSC Activation"
 - 2.1.5 EPIP-20, "Personnel Assembly and Accountability"
 - 2.1.6 EPIP-28, "Personnel Monitoring and Decontamination"
 - 2.1.7 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
 - 2.2.3 ANSI N45.2.9 1974, "Requirements for Collection, Storage and Maintenance of Quality Assurance Records for Nuclear Power Plants."

3.0 LIMITATIONS AND PRECAUTIONS

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- 3.1 This procedure should be conducted in an orderly fashion to avoid personnel injury.
- 3.2 ANPP Medical staff members shall be considered essential personnel and shall not be evacuated.

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ONSITE EVACUATION	REVISION 4	Page 5 of 19

- 3.3 Bechtel Fire Team and Medical staff members shall be considered essential personnel and shall not be evacuated.
- 3.4 Construction Security shall be considered essential personnel and shall not be evacuated.
- 3.5 Any documentation generated as a result of implementing this procedure shall be submitted to the Radiological Protection Coordinator upon event termination and forwarded to the Emergency Planning and Preparedness Dept. for retention in accordance with 9N219.05.00 "Document/Record Turnover Control."

4.0 DETAILED PROCEDURE

- 4.1 Personnel Indoctrination/Responsibilities
 - 4.1.1 In the event of an emergency at PVNGS, it may be desirable to send persons home before there is an uncontrolled release of radioactive material. Such cases may be treated as early dismissal from work and subject only to Section 4.3.1 of this procedure. Notification of such dismissal shall come from the Emergency Coordinator and should be passed down the supervisory chain to accomplish an orderly sequence of dismissal. Security shall provide traffic control.
 - 4.1.2 The remainder of this procedure applies in the event of evacuations where persons may be contaminated and is addressed in Section 4.3.2 of this procedure.
 - 4.1.3 Assembly and accountability per EPIP-20, "Personnel Assembly and Accountability," shall be accomplished prior to any evacuation.
 - 4.1.4 The Emergency Coordinator is responsible for determining the need for onsite evacuation, the offsite reassembly area evacuation routes, and the order of evacuation from various parking lots.
 - 4.1.5 The Security Director is responsible for conducting the evacuation.

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	MERGENCY PLAN TING PROCEDURE	PROCEDURE NO. EPIP-19	
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ONSI	TE EVACUATION	4	Page 6 of 19
4.2 Prer	equisites		
4.2.1	A SITE AREA EMERGENCY or (declared or the Emergency the condition warrants eva personnel.	Coordinator has de	termined that
4.2.2	Assembly and accountabilit and all groups of non-esse assembly areas awaiting ev	ential personnel ar	e at their
4.3 Inst	ructions		
	NOTE		
	Accountability shall be of prior to early dismissal.	completed per EPIP-	20
4.3.1	Early Dismissal		
4.3.1.	 The Emergency Coordina desirable to send pers of radiation exposure. 	ions home before the	that it is ere is a danger
4.3.1.	2 The Emergency Coordina Director to inform all shall in turn inform t	Assembly Area Supe	he Security ervisors who
4.3.1.	3 The preferred order of shall be as follows:	notification and	early dismissal
	 Visitor's Center Bechtel and subcor Bechtel and subcor ANPP/Bechtel Start ANPP Construction PVNGS Nuclear Oper 	tractor non-manual: -up	
4.3.1.	4 The ANPP Medical Staff Medical Staff shall no Team shall report to i further instruction.	t be dismissed ear. ts equipment build	ly. The Fire

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instruction.

to their First Aid Stations and await further

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	RGENCY PLAN	PRCCEDURE NO. EPIP- 19	
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4.3.1.5	Construction Security They shall report to a instructions.	shall not be dismi their duty stations	issed early. and await
4.3.1.6	PVNGS Nuclear Operation personnel shall be dis reassembly area rather recalled if their supp	rected to report to than go home so t	the offsite
4.3.2 The	Emergency Coordinator	shall:	
	NO	TE	
	The instructions prov incorporated into the Coordinator's respons EPIP-05, "SITE AREA H Actions," or EPIP-06, Implementing Actions.	Emergency sibilities found in MERGENCY Implement "GENERAL EMERGENC	ing
4.3.2.1	Determine if an evacua emergency classificate otherwise desirable.	ation is required p lon or if onsite ev	er the level of acuation is
4.3.2.2	Consult with the Radio (or Radiation Protects appropriate offsite as (See Section 4.3.9 of	lon Monitor) and de sembly area and ev	termine the
4.3.2.3	Determine the necessit personnel in the Opera Building into one of t the CR/STSC, Technical Operations Facility.	tions Support Cent the protected facil	er and Service
4.3.2.4	Consult with the Secur traffic control and ot advanced to allow prop	her activities are	sure that sufficiently
4.3.2.5	Order the Shift Superv to signal evacuation a specific instructions.	ind make a PA annou	emergency siren incement with
4.3.3 The	Security Director shall		

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	N	OTE	
	The information prov incorporated into the responsibilities four "Technical Support Co Activation."	ided below has been e Security Director nd in EPIP-11.	8
4.3.3.1	Contact the Maricopa (dedicated telephone of required.	County Sheriff's Of r radio to request	fice by assistance as
4.3.3.2	Inform the Sheriff's (reassembly area (Palo Station) once that is Coordinator.	Verde Inn or Hassa	vampa Pump
4.3.3.3	Request Sheriff's Officient of the control at the offsite	ice assistance with a reassembly area.	traffic
4.3.3.4	Arrange for an orderly	sequence of evacuation	ation.
4.3.3.5	Direct the Security Fo trailers and buildings outside the protected personnel have left th	in the Administrat area to ensure all	tion area
4.3.3.6	Direct Corporate Site Center and associated	Security to check areas.	the Visitor's
4.3.3.7	Contact the Evacuation reassembly area to det are needed. The Admin Coordinator shall arra	ermine if any emerg istrative and Logis	gency supplies
4.3.3.8	Provide periodic repor Emergency Coordinator.	ts on evacuation st	atus to the

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		I	
	N	OTE	
	The instructions pro incorporated into th Protection Coordinat found in EPIP-11.	e Radiological	
4.3.4.1	The Radiological Prot the Emergency Coordin appropriate offsite r route.	ator in determining	the
4.3.4.2	Palo Verde Inn should reassembly area unless alternative. In that should be used. Appear routes to the two offs	s the conditions wa case, Hassayampa P ndix B contains the	rrant use of an ump Station evacuation
4.3.4.3	Provide guidance to the the reassembly area as	he Radiation Monito s requested.	ring team at
4.3.5 Rad	iiation Monitoring Team	shall:	
4.3.5.1	Perform monitoring and C.	d decontamination a:	s per Appendix
4,.3.5.2	Take direction from the Coordinator and process	he Radiological Prot ed to the offsite re	tection eassembly area.
4.3.5.3	Establish a monitoring decontamination area : "Personnel Monitoring	in accordance with I	EPTP=28
4.3.5.4	Monitor and clear all release. Names and ac having received a dose requiring any decontan the evacuees are allow	ddresses of evacuees e in excess of 250 g mination shall be of	s suspected of arem or those ptained before
4.3.5.5	Periodically inform the Coordinator of the pro- decontamination effort	ogress of monitoring	tection g and
4.3.6 Eve	cuation Team Leader sha	all:	
4.3.6.1	Be a member of the Sec Security Director.	curity Force appoint	ted by the

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4.3.6.2	Report to the Bechtel evacuation signal. Wh lead the evacuating gr area.	en the signal is g	iven, he shall
4.3.6.3	Direct arriving groups reassembly area, per S should use arriving As assistance.	ection 4.3.9.1. or	4.3.9.2. He
4.3.6.4	Assist the Radiation M the logistics of monitor shall assure that no in reassembly area until of	oring and decontam ndividual or vehic	ination. He le leaves the
4.3.6.5	Provide periodic progress reports and direct requests for resources, if necessary, to the Security Director.		
4.3.7 As	sembly Area Supervisors	shall:	
4.3.7.1	Receive instructions of Emergency Coordinator v along to the assembly of	via P.A. announcem	tion from the ents and pass
4.3.7.2	Release his group to enter personal vehicles or buses once the evacuation signal is given.		
4.3.7.3			
4.3.8 Ev	acuating Personnel shall		
4.3.8.1	Wait at their assembly signal is given as show	areas until the e wn in Appendix A.	vacuation
4.3.8.2	Take direction from Ass Security Force members	sembly Area Superv during evacuation	isors and
4.3.8.3	Proceed as follows when	n the evacuation s	ignal is given:
	(1) Personnel using the proceed at an order and follow the Even	heir personal vehi erly pace to the s acuation Team Lead	ite exit gates
	(2) Personnel using by point and fill eac pick-up point.	uses shall line up th bus as it pulls	at the pick-up up to the

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- 4.3.8.4 Proceed to the offsite reassembly area and take direction from the Evacuation Team Leader.
- 4.3.8.5 Remain at the offsite reassembly area until cleared to leave by the Radiation Monitoring Team.
- 4.3.9 Offsite Reassembly Areas and Evacuation Routes

NOTE

At no time shall buses or personal vehicles block the fire station next to the Palo Verde Inn. A clear path shall be kept open for the emergency vehicles located at the station.

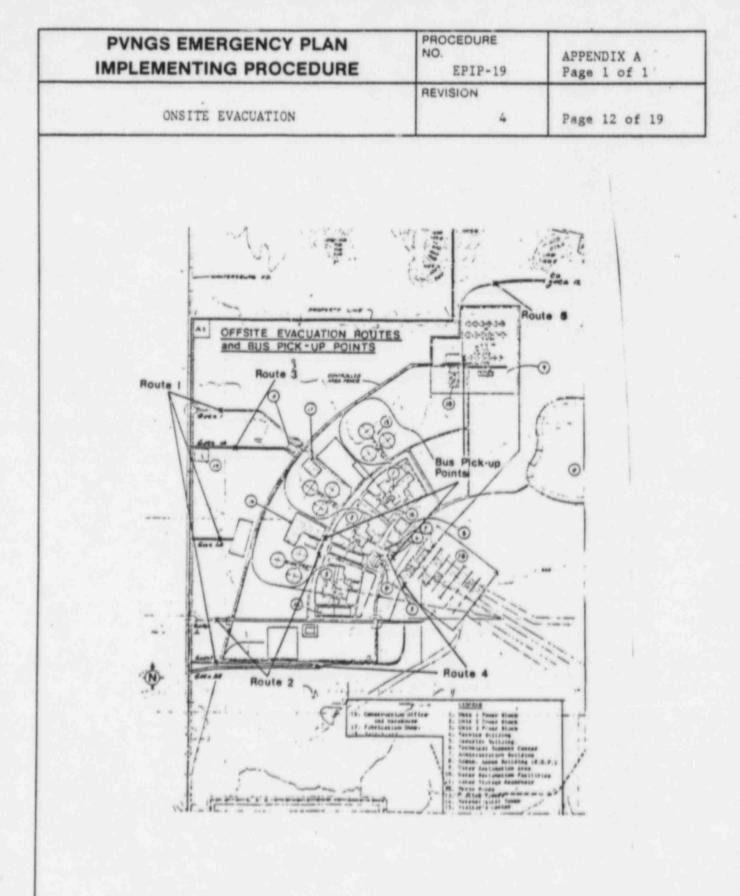
NOTE

No personnel may be allowed inside the Palo Verde Inn without approval of the Evacuation Team Leader.

- 4.3.9.1 The primary offsite reassembly area shall be Palo Verde Inn. Personal vehicles shall be directed into parking lots around the Palo Verde Inn. Buses shall be unloaded outside the parking lot. Personnel shall remain at their vehicles or where they are unloaded.
- 4.3.9.2 The alternate offsite assembly area shall be the Hassayampa Pump Station. This should be used only if meteorological conditions require an alternate to the Palo Verde Inn. The Evacuation Team Leader shall assign assembly locations upon arrival.
- 4.3.9.3 Appendix B contains the evacuation routes to the two areas.

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OFFSITE REASSEMBLY AREAS AND EVACUATION ROUTES

Directions to Primary Offsite Reassembly Area (Palo Verde Inn)

Primary Route

- Exit Plant Site and proceed North on Wintersburg Road to intersection of Wintersburg Road and Buckeye - Salome Highway.
- (2) At the intersection turn left.
- (3) Follow Buckeye Salome Highway (West) to turn-off to Tonopah (411th Ave.).
- (4) At turn-off, turn right (North) and proceed to the Palo Verde Inn.

Alternate Route

- Exit Plant Site and proceed north on Wintersburg Road to Interstate 10 (I-10).
- (2) Turn left onto I=10 (West).

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- (3) Follow I-10 to the Tonopah Exit.
- (4) Turn left off of I-10 onto 411th Ave.
- (5) Follow 411th Ave to the Palo Verde Inn.

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	OFFSITE REASSEMBLY AREAS AND	EVACUATION ROUTES	1
	Direction to the Alternate O Area (Hassayampa Pum	ffsite Reassembly p Station)	
	Primary Route	e	
(1)	Exit Plant Site and Proceed south or intersection of Wintersburg Road and	n Wintersburg Road d Elliot Road.	to the
(2)	At the intersection turn left (East) to 355th Avenue.) onto Elliot Road	and proceed
(3)	At 355th Avenue, turn left (North) of Dobbins Road.	onto 355th and pro	ceed to
(4)	At Dobbins Road turn right (East) or Avenue.	nto Dobbins and pr	oceed to 351st
(5)	At 351st Avenue turn left (North) an Salome Highway.	nd proceed to the	Buckeye -
(6)	At the Buckeye - Salome Highway turn the intersection of Buckeye - Salome	n right (East) and Bighway and Base	proceed to line Road.
(7)	At Baseline Road, turn left (angle t Johnson Road.	turn) and follow B	aseline to
(8)	At Johnson Road turn right (South) o Lower River Road.	onto Johnson and p	roceed to
(9)	At Lower River Road turn right (West station.	t) and proceed to	the pump
	Alternate Route	2010	
(1)	Exit Plant Site and proceed South or Road.	Wintersburg Road	to Elliot
(2)	At Elliot Road turn left (East) and	proceed to 355th	Avenue.
	At 355th Avenue turn left (North) an		
	At Dobbins Road turn right (East) an Highway.		

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proceed to Pa	lo Verde Road.
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OFFSITE REASSEMBLY AREA RADIATION MONITORING TEAM RESPONSE

POSITION FILLED BY: Radiation Protection Technicians

RESPONSIBILITIES: Perform monitoring and decontamination of evacuated personnel as necessary at the offsite reassembly area.

IMMEDIATE ACTIONS

- 1. Receive initial briefing from Radiological Protection Coordinator.
- 2. Obtain the "Emergency Evacuation Decontamination Kit" from the Security Desk of Annex Building, or obtain the necessary monitoring and decontamination supplies from the Radiation Protection Office per EPIP-28, "Personnel Monitoring and Decontamination." (Use OSC, TSC, EOF Emergency Kits if Radiation Protection Office is not accessible)
- Arrange for a vehicle for transport to the offsite reassembly area.
- Proceed directly to offsite reassembly area (see Appendix B) and establish a monitoring control point.

SUBSEQUENT ACTIONS

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- 5. Monitor and clear all evacuated personnel and vehicles.
- Establish decontamination area and decontaminate per EPIP-28, if necessary.
- Obtain names and addresses of evacuees suspected of having received a dose in excess of 250 mrem or those requiring any decontamination before release.
- Periodically inform by telephone (or Evacuation Team Leader radio) the Radiological Protection Coordinator of the progress of monitoring and decontamination.

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	PERSONNEL MONI	TORING LIST		
Person Monitored		Monitor Reading D	isposition	
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EVACUATION TEAM LEADER RESPONSE

POSITION FILLED BY: Security Force Member

RESPONSIBILITIES: Lead the evacuating group to the offsite reassembly area, exercise control at the area, report status to Security Director.

IMMEDIATE ACTIONS

- 1. Receive initial briefing from the Security Director.
- Obtain Security vehicle and portable radio and transport Security Team to Bechtel Gate No. 1.
- Upon sounding of the evacuation signal, lead the evacuating vehicles to the offsite reassembly area (see Appendix B).

SUBSEQUENT ACTIONS

 Direct arriving groups to appropriate assembly points at the offsite reassembly area.

NOTE

At the Palo Verde Inn, personal vehicles shall be directed into parking lots around the Inn. Buses shall unload outside the parking lot. Personnel shall remain at their vehicle or where they unload. At the Hassayampa Pump Station, the Evacuation Team Leader shall assign assembly locations on arrival.

- Brief arriving Assembly Area Supervisors to provide you with assistance.
- Assist the Radiation Monitoring Team with logistics, as appropriate.
- Assure that no individual or vehicle leaves the reassembly area until cleared by the Radiation Monitoring Team.

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EVACUATION TEAM LEADER RESPONSE

SUBSEQUENT ACTIONS (Cont'd)

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 Periodically inform the Security Director as to progress using telephone or portable radio.

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- 3.0 LIMITATIONS AND PRECAUTIONS
- 4.0 DETAILED PROCEDURE

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4.1 Personnel Indoctrination/Responsibilities	6
4.2 Prerequisites	7
4.3 Site Area Assembly and Accountability	
Instructions	7
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1.0 <u>OBJE</u>	CTIVE		
10	assemble all personnel in t order to facilitate notific bsequent evacuation, if nece	ation, accountabil	rgency at PVN GS ity and
pr	account for the whereabouts otected area within 30 minut gnal is activated.	of all personnel es from the time t	within the he accountabilit
SO	account for the whereabouts on as practicable (generally countability signal is activ	within one hour)	onnel onsite as after the
1.4 To em	maintain personnel accounta ergency condition.	bility for the dur	ation of the
2.0 <u>REFE</u>	RENCES		
2.1 Im	plementing References		
2.1.1	EPIP-02, "Emergency Classi	fication"	
2.1.2	EPIP-05, "SITE AREA EMERGEN	NCY Implementing Ad	tions"
2.1.3	EPIP-06, "GENERAL EMERGENCY	Y Implementing Act;	lons"
2.1.4	EPIP-11, "Technical Support	t Center/Satellite	TSC Activation"
2.1.5			
2.1.6	EPIP-21, "Search and Rescue	e"	
2.1.7	9N219.05.00, "Document/Reco	ord Turnover Contro	1"
2.2 Dev	velopmental References		
2.2.1	NUREG-0654, Rev. 1, "Criter of Radiological Emergency F Support of Nuclear Power PI	Response Plans and	and Evaluation Preparedness in

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. 2.	2.2 PVNGS Emergency Plan, Re	v. 6		
2.	2.3 ANSI N45.2.9-1974, "Requ Maintenance of Quality A Plants."	irements for Collect ssurance Records for	A, Storage and Nuclear Power	
2.:	2.4 Bechtel's PVNGS Pre-evac	uation Assembly Plan	. Rev. 4	
3.0	LIMITATIONS AND PRECAUTIONS			
.3.1	If a breach of security exis also implement appropriate P Procedures.	ts, Security Force pe VNGS Security Plan In	ersonnel shall mplementing	
3.2	Personnel performing critica assisting injured personnel, could endanger the lives or s immediately report to their a do one of the following:	or work which if lef	t unattended	
	 Secure the operation to a possible and then proceed 	a safe condition as r i to their assembly a	apidly as trea.	
	(2) If the operation will tak notify the Security Shift	ce more than five min		
3.3	All Public Address announceme telephone page Address System.	Public Address announcements shall be made via the plant wide		
	The Security Shift Centain at	Security Shift Captain shall collect Appendix C from Assembly a Supervisors and submit these sheets <u>along with Appendix B</u> the Emergency Planning Department for forwarding to DDC in ordance with 9N219.05.00, "Document/Record Turnover Control."		

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4.0 DETAILED PROCEDURE

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- 4.1 Personnel Indoctrination/Responsibilities
 - 4.1.1 Assembly and accountability of all onsite personnel is mandatory for an emergency classified as SITE AREA or GENERAL EMERGENCY. The Emergency Coordinator at his discretion may order assembly and accountability for emergencies of a lower classification.
 - 4.1.2 The purpose of assembly is to gather together all site personnel to notify them of the emergency situation and is the first step in the accountability and evacuation procedures. Accountability is required to identify any missing individuals for safety and security purposes. Evacuation is covered in EPIP-19, "Onsite Evacuation."
 - 4.1.3 The primary method of accounting for personnel located in the protected area is by means of the Access Control System. This system requires use of a card-key to enter and exit the protected area and to move through various sections of the protected area. If this system is operable, accountability may be accomplished for the protected area by means of computer printouts. If inoperable, a backup system is provided in section 4.3.13.
 - 4.1:4 The method of accountability for all Bechtel, Bechtel Subcontractors and visitors is described in Appendix F, "Bechtel's FVNGS Pre-Evacuation Assembly Plan" and shall be implemented by the Bechtel Field Constuction Manager.
 - 4.1.5 The method of accountability for all other personnel onsite but outside the protected area is by a sweep search to ensure that all personnel have left their normal work areas and have reported to their assembly areas.
 - 4.1.6 The Shift Supervisor (or Emergency Coordinator) is responsible for determining the need for assembly and accountability, activating the appropriate signal and providing immediate instructions for assembly.
 - 4.1.7 EACH PERSON ONSITE IS RESPONSIBLE FOR KNOWING HIS OR HER ASSEMBLY AREA AND REPORTING TO THAT AREA AS QUICKLY AS POSSIBLE. Appendix A presents a listing of the various groups at the site and their predetermined assembly areas. Appendix E presents a map of all assembly areas onsite.

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4.1.8	The Security Director is r Security Force to assist i accountability data as it the Emergency Coordinator.	n accountability, is received and re	assessing
4.1.9	The Security Shift Captain logging accountability rep	is responsible fo orts from Assembly	r receiving and Area Supervisors
.4.1.10	Assembly Area Supervisors accountability procedure a results to the Security Shi list of the Assembly Area	t their assigned a ift Captain. Appe	rea and reporting
4.1.11	Once assembly and accountal Coordinator may proceed as situation:	bility are complet follows, dependin	e, the Emergency g on the
	 Should it be determined that personnel may retu Emergency Coordinator s 	urn to normal acti	vities, the
	(2) If evacuation is necess accountability, the evaluation	sary after assembly acuation signal sh	y and all be activated.
4.2 Pre	requisites		
4.2.1	The Shift Supervisor has co classification process per Classification" and has det accountability are mandator level or is otherwise desire	EPIP-02, "Emergene termined that asset ty because of the	bly and
4.3 Sit	e Area Assembly and Accounts	ability Instruction	ıs
	The Shift Supervisor shall:		
4.3.1	.1 Sound the accountability appropriate announcement page per EPIP-05, "SITE Actions," or EPIP-06, " Actions."	AREA EMERGENCY In	ide and site wide

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4.3.2 Th	e Emergency Coordinator	shall:	
		NOTE	
	The instructions prov incorporated into the responsibilities four as required.	e Emergency Coordin	ator's
4.3.2.1	Receive a report from minutes on protected a practicable (generally site accountability.	area accountability	and as soon as
4.3.2.2	Be prepared to impleme and Rescue," as approp accountability report.	priate upon receipt	EPIP-21, "Searc of the
		NOTE	
	immediately infor	ordinator shall be med if an assembly the protected area o exceed 2mR/hr.	
4.3.3 The	Security Director shal	1:	
		NOTE	•
	been incorporated Director's respon EPIP-11, "Technic	provided below have into the Security sibilities found in al Support TSC Activation."	
4.3.3.1	If necessary, instruct assume the duties of t Security Building.	the Security Shift he Security Shift C	Sergeant to aptain at the

IMPLEMENTI	RGENCY PLAN	PROCEDURE NO. EPIP-20	
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4.3.3.2	Inform the Security A and Craft Access Poin that site area progress and to assis require all personnel the card reader proper	t Guards (plant tel assembly and accou t exiting personnel leaving the protec	ephone ntability is in . Inform them to ted area to use
4.3.3.3	If radiological condi- personnel to leave the Access Point during of instruct the Security Construction Security	e protected area vi ffshifts (nights and Shift Captain to r	a the Craft d holidays), equest
4.3.3.4	Direct the Security SI County Sheriff's Offic to request assistance and Buckeye/Salome Hig Wintersburg Road and H plant in preparation is accountability.	ce by dedicated tel at the corner of W ghway north of the Elliot (Ward) Road	ephone or radio intersburg Road plant and south of the
4.3.3.5	Obtain a printout for Control System Compute the accountability sig	er approximately 20	from the Access minutes after
4.3.3.6	Cross check names and Security Shift Captair area accountability fr	n who receives report	rs with the tts of protected
	(1) Unit Control Room	n/Satellite TSC	
	(2) Technical Support	t Center	
	(3) Unit Operations S	Support Center	
	(4) Service Building		
	(5) CAS/SAS Operators		
4.3.3.7	Provide the names and individuals and their Emergency Coordinator.	last known location	s of missing is to the

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4.3.3.8 Inform the Emergency Coordinator of protected area accountability status within 30 minutes.

NOTE

The site area accountability reports are VERBAL reports which indicate the sweep searches have been performed and gives the results of these searches.

4.3.3.9 After protected area accountability is completed, the Security Director shall work with the Security Shift Captain who receives telephone reports of site area accountability from the following:

- (1) Visitor's Center
- (2) Water Reclamation Facility
- (3) Emergency Operations Facility
- (4) Bechtel Emergency Control Center
- 4.3.3.10 Inform the Emergency Coordinator of site area accountability status as practicable (generally within one hour).
- 4.3.3.11 Instruct the Security Shift Captain to dispatch a security team to routinely check the Administration Building, the Annex Building (excluding the cafeteria and the EOF assembly areas) and the trailer areas to ensure that they are not occupied. If any area is occupied, the security team shall inform the personnel to report to the nearest assembly area.
- 4.3.3.12 Arrange to receive Individual Accountability Sheets (Appendix C) for each protected area assembly point as soon as practical.
- 4.3.4 The Security Shift Captain shall:

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NOTE

The instructions provided below have been incorporated into the Security Shift Captain's responsibilities found in Appendix B.

- 4.3.4.1 Be located at the Security Building with IMMEDIATE access to telephone
- 4.3.4.2 Compile accountability reports for the protected area within 20 minutes.
- 4.3.4.3 If protected area accountability reports are not received within 20 minutes of the accountability signal, attempt to contact assembly areas that have not reported.

- 4.3.4.4 Use these reports and the computer printout from the Access Control System to account for each person in the protected area.
- 4.3.4.5 Send a Security Force member with radio to the Firing Range to notify any personnel of the emergency and to obtain accountability data. The same Security Force member shall notify any personnel in the switchyard to report to the Administration Annex Building Cafeteria.
- 4.3.4.6 Report names and badge (ACAD) numbers of missing individuals in the protected area and their last known locations to the Security Director as soon as they become known.
- 4.3.4.7 Compile accountability reports for the assembly areas outside the protected area as soon as practicable and report results to the Security Director.

4.3.5 Security Personnel

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4.3.5.1 Upon activation of the accountability signal, all security personnel shall be contacted by the Central Alarm Station or Secondary Alarm Station Operators for accountability and further instructions.

4.3.6 Protected Area Personnel

4.3.6.1 Upon activation of the accountability signal, personnel in the protected area shall await instruction via P.A. announcement from the Shift Supervisor or the Emergency Coordinator concerning routes to assembly areas or areas

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4.3.6.2 Personnel assigned to the affected unit with primary or alternate responsibilities in the Emerge sy Organization shall report to their assigned emergency location as soon as possible. Personnel outside the protected area who must enter the protected area to assume their emergency position shall report to the Security Access Point and follow normal entry procedures.

NOTE

If the Emergency Coordinator directs all personnel to leave by the Craft Access Point, this group shall do so and then shall assemble at the Visitor's Center.

4.3.6.3 ANPP Nuclear Operations personnel, their contractors and visitors with no responsibilities in the emergency organization shall leave the protected area via the Security Access Point and report to the appropriate assembly area in the Administration Annex Building Cafeteria (see Appendix D). The senior individual present or the assigned Security Guard shall serve as Assembly Area Supervisor.

NOTE

If the Emergency Coordinator directs all personnel in Steps 4.3.6.4 and 4.3.6.5 to leave by the Security Access Point, they shall do so and then shall assemble at the ANPP Operations parking lot.

- 4.3.6.4 ANPP Nuclear Construction/Site Corporate Quality Assurance personnel, their contractors and visitors shall leave the protected area via their normal access points and report to their automobile parking lot or bus pickup point.
- 4.3.6.5 Bechtel personnel, subcontractors and visitors shall leave the protected area via their normal access points and report to their automobile parking lot or bus pickup point.

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	ERGENCY PLAN NG PROCEDURE	PROCEDURE NO. EPIP-20	
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4.3.6.6	ANPP Startup personne leave the protected a and report to the SUM (assembly area telepho	rea via their norma S building south pa	1 access points
4.3.7 Si	te Area Personnel		
4.3.7.1	Upon activation of the onsite but outside the their assigned assembly	e protected area shi	gnal, personnel all report to
4.3.7.2	ANPP Nuclear Operation visitors without respo Organization shall rep area in the Administra	onsibilities in the port to their approx	Emergency priate assembly
4.3.7.3	ANPP Nuclear Construct Assurance personnel, s report to their automo point.	subcontractors and y	visitors shall
4.3.7.4	Bechtel Personnel, sub report to their automo points.	ocontractors and vis obile parking lot or	sitors shall r bus pick-up
4.3.7.5	Water Reclamation Pers conference room.	connel shall report	to the WRF
4.3.7.6	Visitor's Center Staff Visitor's Center.	and visitors shall	l report to the
4.3.7.7	Bechtel First Aid and at the Safety Office.	Fire Team personnel	l shall assemble
4.3.7.8	ANPP Start-Up personne building south parking number - ext.	l shall assemble at lot (assembly area	the SUMS telephone
4.3.8 Ass	embly Area Supervisors		*
4.3.8.1	Assembly Area Supervis complete the Individua for personnel who have sheet shall be called plant telephone at	arrived. The info into the Security S	neet (Appendix C)

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A* #2

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4.3.9 Sit	e Area Accountability		
	N	DTE	
	If a release has occur the Emergency Coordin EPIP-21 to perform the	nator shall impleme	nt, int
4.3.9.1			a physical
4.3.9.2	ANPP Nuclear Construct teams to ensure that a Corporate Quality Asso work areas and report or bus pickup point.	all ANPP Nuclear Co grance personnel ha	nstruction/Site
4.3.9.3	Bechtel Field Construct Appendix F to ensure to their work stations and parking lot or bus pice	that all Bechtel pe id reported to thei	rsonnel have loft
4.3.9.4	ANPP Startup Administr dispatch search teams personnel have left th the SUMS building sout	to ensure all ANPP meir work stations	starrun
4.3.9.5	The search teams shall the protected area. A informed to report to any person is found in immediately notify the telephone as appropriate. After shall report to their are clear.	Iny individual foun their respective a jured, the search Emergency Coordin and admi completion of the	d shall be ssembly area. If team shall ator at plant nister first aid search the teams

4.3.10 Protected Area Missing Individual Accountability Search

4.3.10.1 The Emergency Coordinator shall implement EPIP-21 to locate missing individuals who may be in the protected areas.

4.3.11 Evacuation

4.3.11.1 The Emergency Coordinator shall implement EPIP-19 if evacuation is required.

	MERGENCY PLAN	PROCEDURE NO. EPIP-20	-	
	NEL ASSEMBLY AND COUNTABILITY	REVISION 4	Page 15 of 2	
4.3.12	Bomb Threat	DTE		
	Distances noted below distances. To ensure of safety, go to the attainable.	e the greatest marg	in	
4.3.1	2.1 Alternate (outdoors) a event of a bomb threat	assembly areas to b	e used in the	
	 Administration Ann northeast of build 	nex Building - Open ling.	space 600 feet	
	(2) ANPP Construction pool area.	Office - Adjacent	to vans in van	
	(3) Water Reclamation southwest of offic	Office - Open space 300 feet ce.		
	(4) Visitor's Center - building.	Open space 300 fe	et southwest of	
4.3.13	Access Control System Inop	perable		
	If the Access Control Syst inoperable, the accountabi the instructions provided except:	lity system shall	he indentical to	
	 At exit turnstiles security badges in the Security Shift 	, security guards s containers to be Captain for account	transported to	
	(2) The Security Shift and the Assembly A protected area according computer printout.	rea Supervisor repo ountability in plac	orts to complete	
4.4 Emer	gency Situation Terminated			
	The Emergency Coordinator out the appropriate termina EPIP-06.	(or Shift Superviso ation actions as pe	or) shall carry ar EPIP-05 or	

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							PERSONNEL	IMPLEMENTING
			ASSEMBLY AREA	GROUPS			AC	Z n
	Assembly Group	Assumbly Area	Assembly Area Supervisor	Accountability	Accountability Time Schedule	Assembly Ares Telephone No.	COU	
۱.	Control Hoom/SISC Emergency Staff	Control Room/SISC	 Assistant Shift Supervisor 	Supervisor knowledge	Within 20 min.		CONNEL ASSEMBLY ACCOUNTABILITY	NTING
	and the second se		b. Nuclear Operator				SEM	
2.	Technicsi Support Center Emergency Steff	TSC	Onshift a. 1och. Engineering Coordinator (Shift Systems Engineer) Onsite a. Personnal Resources Coordinator b. Hazard Control Coordinator	Assembly Area Supervisor log incoming personnel and re- port to Socurity	Within 20 min.		IBLY AND	PROCEDURE
3.	Operations Support Center Emergency Staff	osc	 BSC Coordinator Repairs Coordinator 	Assembly Area Supervisor tog incoming personnel and re- port to Security	within 20 min.			m
۰.	Service Building Emergency Staff	Service Building {Alt. OSC}	e. Mech. Coordinator b. I&C Coordinator	Astembly Area Supervisor log incoming personnel and re- port to Security	Within 20 min.		REV	NO
5.	Security Personnel	Not Applicable	Security Shift Captain	Roport accounts- bility to CAS/SAS via radio/telepnone	Within 20 min.		REVISION	NO. EPIP-2
6.	ANPP Nuclear OPS Assigned to Pro- tocted Area but not assigned responsibility in the Emergency	Admin. Annex Bidg. Cafeteria (or Visitor's Center if so directed)	Assigned Security Guard or Senior Individual present	Access Control System Computer/ Card-Renders	Within 20 min.		4	-20
	Response Organization							
							Pa	API
								EN
							16	DIX
		-					age 1	APPENDIX A Page 1 of 2

			ASSEMBLY AREA/GROUPS				PE	IMPLEM
	Assembly Group	Assembly Area	Assombly Area Supervisor	Accountability Method	Accountability Time Schedule	Assembly Ares Isisshone No.	PERSONNEL	im w
1.	AMPP Startup Personnel inside protected area.	SUMS Building south parking lot.	Group Managars System Computer/Card-Readers	Access Control	Within 20 min.		ONNEL ASSEMBLY ACCOUNTABILITY	ENTING
8.	All other AMPP Startup Personnel	SUMS Building south parking lot.	Group Menagers	Accountability Sweep Search	As soon as practicable		BILITY	GENC
9.	All other per- sonnel inside pro- tected srea: ANPP Construction, Bechtel, Sub- contractors, etc.	Automobile Parking Lot or Bus pickup point	Group Manngers System Computer/ Card-Readmrs	Access Control	Within 20 min.		Y AND	CED
10.	All ANPP Nuclear Operations per- sonnel outside protected area	Admin, Annex Bidg. Cefeteria (or Visitors Center if so instructed)	Assigned Security Guard or Senior Individual present	Accountability Sweep Search	As soon as practicable	1		URE
п,	All other personnel outside protected area: ANFP Construction, Bechtel, Sub- contractors, etc.	Automobile Parking lot or bus pickup point	Group Manager	Accountability Sweep Search or Bechtol Pre- Evacuation	As soon as practicable		72	23
12.	Visitor's Center Staff & Visitors	Visitor's Center	Visitor's Center Director	Director Knowledge	As soon as precticable		REVISION	0.00
13.	ANPP Water Recla- mation Personnel	WRF Conference Room Lunch Room	A. Administrative Spa- cialist B. WRF Lead Chemist C. WRF Chemist	Accountability Sweep Search	As soon as practicable		NON 4	PROCEDURE NO. EPIP-20
14.	Emergency OPS Facility Staff	EOF (Annox Basomont)	A. Security Coordinator B. Admin. & Logistics Coordinator	Assembly Area Supervisor Chuck Against emurgency rester	As soon as practicable		-	
15.	Bechte: First Aid and Fire Team Personnel	Bechtel Safety Office	Safety Supervisor	Bechtel Pre- Evacuation Assombly Plan	As soon as precticable		Page 17 of	APPENDIX A Page 2 of 2

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APPENDIX B

SECURITY SHIFT CAPTAIN RESPONSE

POSITION FILLED BY

1. Security Shift Captain

2. Security Shift Sergeant (alternate)

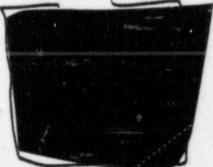
RESPONSIBILITIES

- 1. Obtain accountability reports from Assembly Area Supervisors.
- 2. Assist Security Director with accountability tasks as appropriate.
- 3. Serve as Assembly Area Supervisor for Security Force.

IMMEDIATE ACTIONS

- 1. Report to Security Building and man the accountability phone lines (ext.
- Account for Security Force members at fixed posts and on patrols from CAS and SAS accountability checks.
- 3. Send Security Force member to the Firing Range to notify and obtain accountability data. The same guard shall notify switchyard personnel to report to the Administration Annex Building Cafeteria.
- 4. Contact all protected area Assembly Area Supervisors who have not called in within 20 minutes and obtain Accountability Reports.
 - (1) Unit #1 Control Room/STSC
 - (2) Technical Support Center
 - (3) Unit #1 Operations Support Center
 - (4) Service Building

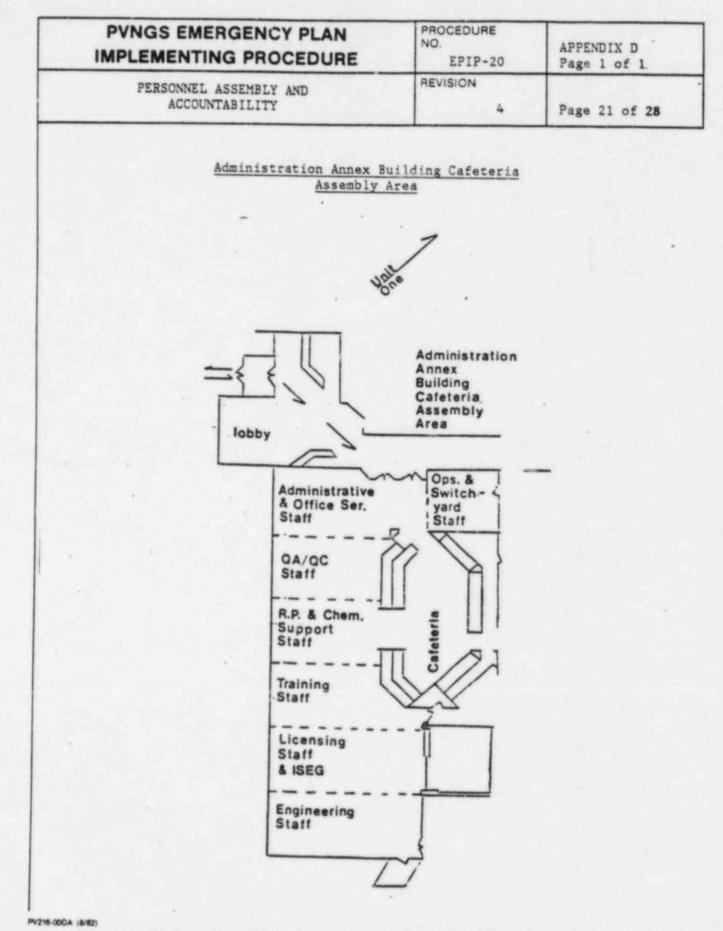
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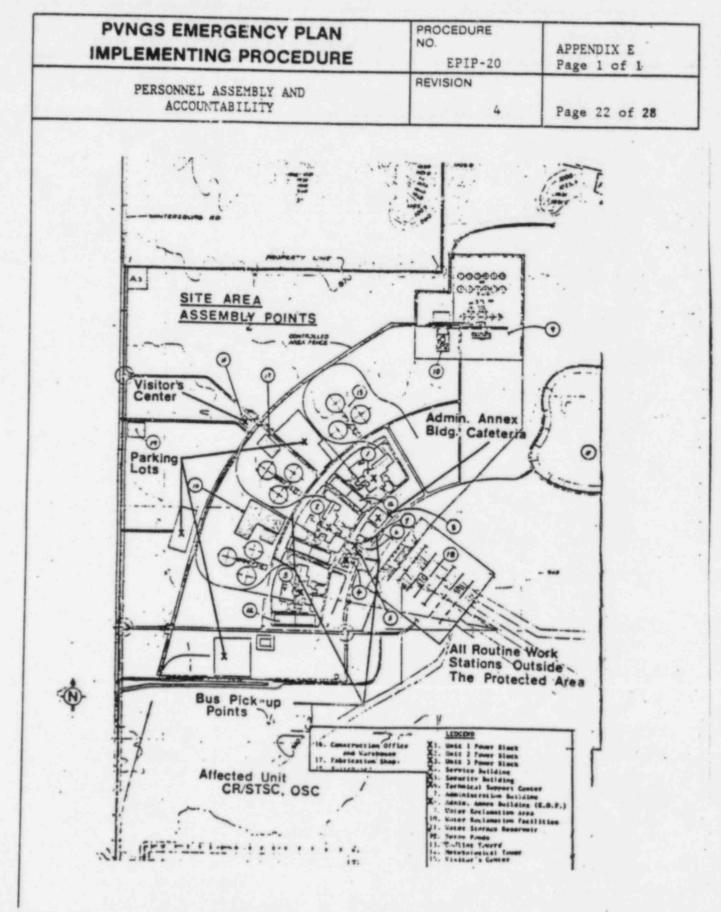


		NGS EMERGENCY PLAN	PROCEDURE NO. EPIP-20	APPENDIX B Page 2 of 2.
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5.	Use : perso	reports and computer printout to onnel within 30 minutes.	account for all pro	otected area
6.	Reporto Se	rt names and badge (ACAD) numbers ecurity Director as t	of <u>protected</u> area hey become known.	missing individuals
7.	Conta	act all <u>site</u> Assembly Area Superv ly manner and receive accountabil	isors who have not ity status for each	reported in a h.
	(1)	Water Reclamation Facility		
	(2)	Visitor's Center		
	(3)	Emergency Operations Facility		
	(4)	Bechtel Emergency Control Center	r U	- 10
8.	park.	atch a Security Force member(s) wing lots and bus pick up points to rts from assembly area supervisor:	o obtain site area	e various automobile accountability

9. Report site accountability to Security Director as soon as practicable.

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PERSONNEL ASSEMBLY AND ACCOUNTABILITY	REVISION 4	Page 20 of 28	
INDIVIDUAL ACCOUNT	ABILITY SHEET		
ASSEMBLY AREA			
DATE/TIME			
NO. OF PEOPLE ACCOUNTED FOR:			
ASSEMBLY AREA SUPERVISOR			
PERSONNEL L (Print Cle			
NAME	AC	AD NO.	
		-E-	
	1.74.14		
•	. 19.7.		
Note: Contact Security Shift Captain at results for this assembly area.	With	accountability	





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BECHTEL'S PVNGS PRE-EVACUATION ASSEMBLY PLAN

1.0 Purpose

Alert, assemble and account for all Bechtel employees, Bechtel Subcontractors, and Bechtel visitors in the event of an emergency at PVNGS prior to site evacuation.

2.0 Scope

This plan describes the methods and procedures necessary to alert, assemble and account for employees should an evacuation be necessary.

3.0 General

A safe and orderly process is necessary to assemble and account for personnel in preparation for an emergency that may require site evacuation. The locations for assembly are outlined in this plan. Accountability of personnel at these assembly areas will be the responsibility of appointed supervisors. These supervisors will report their findings to the Emergency Control Center either by phone or radio. Phone numbers Channes, general use) UHF named. All personnel will remain in their appointed assembly areas until notification from the Emergency Control Center.

Search and rescue for unaccounted personnel within the protected area will be conducted by ANPP personnel. Outside the protected area, Bechtel will be responsible for accountability, search and rescue of Bechtel employees.

4.0 Alerting

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Sirens, followed by a P.A. Announcement, will be used to alert personnel on the jobsite to proceed to their appointed assembly areas (parking lots). The accountability signal is a rising high pitched tone in three (3) second bursts and is the signal for personnel to proceed to the parking lots. Sirens will also be used to give the "All Clear" signal which is a continuous tone on the siren. When this signal is sounded personnel are to return to their respective work areas.

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Sirens will be used to signal the start of jobsite evacuation (from parking lots) to the designated reassembly areas or as a jobsite work release. This signal, a siren tone similar to the wail of an ambulance, will be accompanied by verbal instructions from the Emergency Control Center indicating the need to proceed to a designated offsite reassembly area, or that employees may depart to points of their choice.

ALL PERSONNEL ARE TO FOLLOW INSTRUCTIONS ISSUED OVER THE PUBLIC ADDRESS SYSTEM; VERBAL ANNOUNCEMENTS SUFERCEDES WRITTEN ASSEMBLY/EVACUATION PROCEDURES.

Flashing lights will be installed in areas where the sirens are not audible. <u>All</u> vehicle traffic, except for emergency vehicles, will stop during period of assembly in the parking lot areas.

5.0 EMERGENCY CONTROL CENTER (ECC)

This center will coordinate all Bechtel site emergency operations excluding the protected area. The center is located at the Field Managers office area. All accountability reporting from assembly areas will be directed to the Project Superintendent, who will record and report to the Field Construction Manager.

The Emergency Control Center Recorder will assume the responsibilities of the FCM in his absence. Shift Superintendents will assume the responsibilities of this plan on the off shifts. The ECC will then report personnel accountability status to the Security Director of the PVNGS Emergency organization in the TSC The decision to evacuate or return to work will come from the Emergency Coordinator of the PVNGS Emergency

organization and will be relayed to the Bechtel ECC for action.

A. Assembly Areas and Procedures

 After the protected area is established all personnel working for a Bechtel entity are covered in the purpose and scope of this plan. (i.e., Bechtel employees in Jobs 10407, 16858, 17680, Res. Engineers, QA, QC, etc., Bechtel Sub-contractors and visitors to Bechtel entities). Assembly for these employees is as follows:

(a) Bechtel Employees:

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(1) Non-Manual Employees:

All Bechtel Non-Manual employees will assemble in the #2 parking lot just West of the Warehouse Lay-down yard. (This lot is not used for vehicle parking.) Entry to the #2 parking lot will be through the walk-thru gates on the West side of the warehouse Lay-down yard or through Gate #2 located just West of the Start-up Modular Structure, adjacent to the Arizona Southern Coach Lines bus parking area.

(2) Craftsmen:

Bechtel Craftsmen will exit the Power Block area through the same badge alley they used when entering the PVNGS work area. Badges will be deposited at each craft shack in the same manner as at the end of any work shift. Craftsmen will remain in their respective parking lots pending further instructions.

(3) Bechtel Sub-Contractors:

Each Bechtel Sub-Contractor will exit the Power Block area through the same badge alley they used when entering the PVNGS work area. Badges will be deposited at the appropriate craft shack in the same manner as at the end of any work shift. Each sub-contractor employee will remain in that parking lot pending further instructions.

Each visitor to a Bechtel discipline will accompany their "host" to parking lot #2, remaining in this area pending further instructions.

2. Site Assembly Procedures:

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⁽⁴⁾ Visitors to B.C.I.:

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- (a) Non-Manual Employees
 - (1) Day Shift Employees:

Each functional supervisor, as indicated on the current Bechtel PVNGS Organization Chart, will insure that each employee under his/her supervision is aware of the siren alert and that they are to proceed to the assembly area in parking lot #2. These supervisors will insure that each employee present for work is accounted for and will report this information, per functional direction as established on the Bechtel Organizational chart, to their next higher level of supervision. This system of reporting will be accomplished until it reaches the office of the Field Construction Manager. All Non-Manual personnel will remain in Parking Lot #2 pending further instructions.

(2) Swing and Grave Shift Employees

Each functional supervisor, as indicated on the current Bechtel PVNGS Organization Chart, will insure that each employee under his/her supervision is aware of the siren alert and that they are to proceed to the assembly area in the APS-ANPP Information Center Parking lot. These supervisors will insure that each employee present for work is accounted for and will report this information, per functional direction as established on the Bechtel Organizational chart, to their next higher level of supervision. This system of reporting will be accomplished until it reaches the office of the Field Construction Manager. Al! Non-Manual personnel will remain in the APS-ANPP Information Center Parking lot pending further instructions.

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(b) Manual Employees

Each Craft Foreman will insure that each member of his crew is aware of the siren alert and direct them to proceed to their respective parking lots. Foremen will advise their General Foreman that accountability has been accomplished - giving the name of any crew member that might be missing. The General Foreman will then advise his immediate superintendent that accountability has been accomplished. The superintendent will advise the Unit Superintendent ie (Unit I, Unit II, Unit III, Yard, Warehouse etc.) that craft personnel have been accounted for and are assembled in their respective parking lots. The Unit Superintendents will then advise the Project Superintendent as to the status of craft personnel working within their unit.

(c) Bechtel Subcontractor

The Manager/Superintendent of each Bechtel Sub-contractor will insure that each of his personnel is aware of the siren alert and that they are to proceed to their respective PVNGS parking lot and are to await further instructions. The Manager/Superintendent will then make an accountability report to the Field Contracts Manager (telephone extension who in turn will advise the Field Construction Manager that accountability has been accomplished.

(d) Safety and First Aid Personnel

These persons will assemble at the Safety Office. The supervisor will report accountability to the ECC by phone or radio.

(e) <u>Timekeeping</u> Personnel

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All Timekeeping personnel will report to their assigned badge alley/timekeeping office. The supervisor will report accountability to the ECC by phone or radio. Timekeeping personnel will aid in manual personnel accountability.

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(f) Visitors

All visitors will be the responsibility of their hosts and must remain in their company. Supervisors will report all visitors in their assembly areas, by name, to the ECC, by phone or radio along with routine reports.

3. Reassembly at "OFFSITE" Evacuation. Locations

When the "Jobsite Evacuation" notification is given with a notice of possible radiation release/contamination, it will be necessary to reassemble evacuees away from the jobsite. The primary Bechtel reassembly area will be in the open field adjacent to the Palo Verde Inn Fire Station. The alternate area is the Hassayampa Pump Station. ANPP Security will release each parking lot and bus pick-up point in a predetermined order and lead the evacuees by the appropriate route to the designated off site reassembly area.

B. Fire Department and Medical Staff

Bechtel Fire Department and Medical personnel will not evacuate jobsite upon sounding of jobsite evacuation signal. These personnel will remain at the Bechtel Safety Office pending instructions from the PVNGS Emergency Coordinator.

- C. Education and Training
 - Pamphlets will be dispersed to 4 site personnel (including sub-contractors) to in orm them of the procedures established in them will.
 - An explanation of this plan will be incorporated into the manual and non-manual new hire orientations.
 - 3. The job-wide Safety Tool Box meetings will be used to present the plan to the jobsite. These meetings may be used to provide a refresher for the plan if needed.
 - ANPP will train Bechtel employees who enter the protected area, concerning accountability response within the protected area.

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		REVISION H	ISTORY	
Rev. No.	Date	Revised Pages		Comments
3	6-17-85	3, 4, 5, 6,	Revised Re	ferences and
		7, 8, 9, 10	deleted tw	o Appendices not
			required.	Corrected
			References	in text of pro-
			cedure to a	old Appendices.
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3.0	LIMITATIONS AND PRECAUTIONS		4
4.0	DETAILED PROCEDURE		5
	 4.1 Personnel Indoctrination/Respons 4.2 Prerequisites 4.3 Instructions 	ibilities	5 5 5

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Appendix B - Hazards Control Coordinator Search and Rescue Information She	l2

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SEARCH AND RESCUE 4 Page 4 of 1			
1.0 <u>OBJE</u>	CTIVE		
1.1 To in	provide instructions for th dividuals who may be missing	ne search and rescu or disabled.	e of
2.0 <u>REFE</u>	RENCES		
2.1 Im	plementing References		
2.1.1	EPIP-18, "Emergency Exposu	re Guidelines"	
2.1.2	EPIP-20, "Personnel Assemb	ly and Accountabil:	ity"
2.1.3	EPIP-22, "Personnel Injury	"	
2.1.4	EPIP-28, "Personnel Monito	ring and Decontamir	ation"
2.1.5	9N219.05.00, "Document/Rec	ord Turnover Contro	1"
2.2 Dev	elopmental References		
2.2.1	PVNGS Emergency Plan, Rev.	6	
2.2.2	NCRP Report #39, 1971 Basic	c Radiation Protect	ion Criteria.
2.2.3	EPA-520/1-75-001, "Manual of Protective Actions for Nuc. 1980.	of Protective Actic lear Incidents," re	n Guides and vised June
2.2.4	NUREG 0737, "Clarification Requirements," October 1980	of TMI Action Plan	
2.2.5	75AC-92201, "Radiation Expo	osure and Access Co	ntrol," Rev. 3
2.2.6	ANSI N45.2.9-1974 "Requirements for Collection, Storage, and Maintenance of Quality Assurance Records for Nuclear Power Plants."		
3.0 LIMIT	ATIONS AND PRECAUTIONS		
3.1 Pro sea	per radiological controls sh rch and rescue operations.	would be adhered to	during

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	S EMERGENCY PLAN	PROCEDURE NO. EPIP-21	
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	SEARCH AND RESCUE	4	Page 5 of 13
3.2	Emergency Exposures shall be a EPIP-18, "Emergency Exposure G	uthorized in accord uidelines."	lance with
3.3	A portable radio should be pro Team.	vided to the Search	and Rescue
3.4	Search and Rescue Team members voice range of each other.	should keep within	sight or
3.5	The Hazards Control Coordinator Sheet shall be forwarded to the Preparedness Dept. for storage "Document/Record Turnover Contr	Emergency Plannin	e and
4.0 <u>p</u>	ETAILED PROCEDURE		
4.1	Personnel Indoctrination/Respon	sibilities '	
4.1	.1 If personnel are known to b the results of EPIP-20, "Pe Accountability," the Securi Emergency Coordinator.	rsonnel Assembly a	nd
4.1	.2 The Emergency Coordinator i this procedure and shall di the Emergency Maintenance C and Rescue Team.	rect the OSC Coord	instan mis
4.2	Prerequisites		
4.2	Personnel have been reporte known to be disabled and ne	d missing per EPIP- ed assistance.	-20 or are
4.3	Instructions		
4.3	1 The Emergency Coordinator v Coordinator shall instruct Search and Rescue team. The the following (if known):	the OSC Coordinator	to daplan a
	(1) Identification of missing	ng individual(s).	
	(2) Last known location of from Security Controller Radiation Exposure Perm	d Access System Com	muter

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SEARC.1	AND RESCUE	4	Page 6 of 13
4.3.2 Th	e USC Coordinator shall:		
4.3.2.1	Assemble a Search and consisting of two memb familiar with the plan	ers. Both members	ch team shall be
4.3.2.2	Appoint one team membe	r as the Team Lead	er.
4.3.2.3	Within the limits allo situation, make every Search and Rescue Team information (if known)	reasonable effort (s) with the follow	to provide the
	(1) Identification of (missing individual	(s).
	(2) Last known location Security and REP is	n of each individua f one is issued).	al (check
	(3) The job each indiv	idual was working.	
	(4) Any significant det may affect the sear	tails of the plant rch and any special	status that instructions.
	(5) Nature of injuries,	, if known.	
	(6) With the Radiation Radiological Protect radiation levels if approximate stay to area.	tion Coordinator,	ascertain
	(7) Inform Search and R exposure limits if	Rescue Team members deemed necessary.	of radiation
	(8) Instruct the team(s Coordinator. Immed removal of personne	liately upon locati	on and/or
4.3.2.4	Coordinate all Search a duplication of effort a exposure does not occur	and Rescue Teams so and unnecessary rad	that

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE SEARCH AND RESCUE		PROCEDURE NO. EPIP-21	
		REVISION 4 Page 7 of 13	
4.3.2.5	Recall the Search and H rescue operations are n determined by the Emery missing personnel are a	to longer necessary gency Coordinator o	as
4.3.3 The	Search and Rescue Team	Leader shall:	
4.3.3.1	Ensure that the team is utilizing Appendix A, '	equipped as neces Search and Rescue	sary Response."
4.3.3.2	Go to the Control Room key(s) for area(s) to b	Go to the Control Room to obtain appropriate master key(s) for area(s) to be searched.	
4.3.3.3	Keep the Hazards Control Coordinator informed of significant actions via appropriate communication equipment.		
4.3.3.4	Inform the Hazards Cont upon locating any missi	rol Coordinator imm ng and/or disabled	personnel.
4.3.4 The	Search and Rescue Team	members shall:	
4.3.4.1	Proceed to the last kno individual(s) and if ne adjacent areas.	wn location of the cessary, expand the	missing search to
4.3.4.2	Keep within sight or voice range of each other, if possible.		
4.3.4.3	Employ the following gueffort:	idelines during the	rescue
	 If the area is known steam or an explosion it may be contaminant respiratory protect. 	on is involved in a ted, protective clo	n area where thing and
	(2) If the area is smoke area is in disarray team members shall protection as necess	because of fire or use lifelines and r	explosion

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-21	
		REVISION	
SEARCH	AND RESCUE	4	Page 8 of 13
	(3) If there is potent radiation levels s entered.	tial radiation in t shall be monitored	he area, as the area is
	Search and Rescue	the inspection of the completed or if the condition of the Team should return method of rescue (s	rescue is area, the
4.3.5 T	ne Hazards Control Coordi	nator shall:	
4.3.5.1	Keep the OSC Coordinat Maintenance Coordinato	or informed via the r of all significar	Emergency it events.
4.3.5.2			
4.3.5.3	Notify the Emergency C Search and Rescue effo	oordinator of the r rts.	esults of the
4.3.6 Hi	gh Radiation -		
		NOTE	
	Is required prior Team members excee except in immediat situations. Such	rdinator's permissi to Search and Resc eding 10CFR20 limit te life or death exposures are allo eria of EPIP-18 are	ue s
4.3.6.1	If the individual's cor excessive time is requi area, consider portable reduce the exposure of	red to remove him	from the
4.3.7 Fin	re -		
4.3.7.1	Rescue of an individual fire fighting unless th without detrimental eff necessary to suppress t	e fire can be extin	nguished

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IMPLEMENTI	ERGENCY PLAN	PROCEDURE NO. EPIP-21	
		REVISION	
SEARCH AND RESCUE		4 .	Page 9 of 13
4.3.7.2	Consider obtaining rai supplies and having on a hose and spray nozzl performing the rescue.	e team momber spray e) over the team me	Water (using
4.3.8 St	eam or Hot Water -		
4.3.8.1	to perform the rescue; system will seriously a	Rescue of an individual shall take precedence over system isolation unless system isolation is required to perform the rescue; or failure to isolate the system will seriously affect reactor safety; or place the lives of other personnel in immediate danger.	
4.3.8.2	Consider performing the actions of 4.3.7.2 to perform the rescue.		
4.3.9 Wr	ackage -		
4.3.9.1	Obtain the tools necess	ary to perform the	rescue.
4.3.9.2	Enter the area and perf		
4.3.10 Act	ion Following Rescue		
4.3.10.1	Transport or escort the as soon as possible and	victim(s) to a sa perform any requi	fe location red first aid.
4.3.10.2	If the victim is injure Coordinator and perform as necessary.	d, advise the Haza EPIP-22, "Personn	rds Control el Injury,"
4.3.10.3	The OSC Coordinator sha Coordinator when the te rescue activities and r	am has concluded in	re search and

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IM	PLEMENTING PR		PROCEDURE NO. EPIP-21	APPENDIX A Page 1 of 2
			REVISION	
SEARCH AND RESCUE		4	Page 10 of 13	
	SEAR	CH AND RESCUE TH RESPONSE	EAM	
POSITION	P P R D R C I M E	er team. ersonnel availab escue Teams incl esignated Shift adiation Protect hemistry Technic echanical Mainte	Personnel tion Technician tian mance Technician mance Technician	
RESPONSI	and the second se	onduct search an	nd rescue activities	
	dı	iring an emergen	icy.	
IMMEDIATE		iring an emergen	icy.	
IMMEDIATE	ACTIONS	iring an emergen	icy.	
1. With obta		w the urgency a		
 With obta indi (1) (2) 	ACTIONS in limits allowed b in search and rescu- vidual: I.D. of missing p Last known locati Job individual wa Pertinent details Stay time(s) in a Radiation exposur	by the urgency a se data from sup erson on s working on of plant statu rea(s) e limits	t the situation, ervisory	
 With obta indi (1) (2) (3) (4) (5) (6) (7) 	ACTIONS in limits allowed h in search and rescu- vidual: I.D. of missing p Last known locati Job individual wa Pertinent details Stay time(s) in a Radiation exposur Nature of injurie	by the urgency a te data from sup eerson on s working on of plant statu rea(s) e limits s, if known	t the situation, ervisory	
 With obta indi (1) (2) (3) (4) (5) (6) (7) 	ACTIONS in limits allowed b in search and rescu- vidual: I.D. of missing p Last known locati Job individual wa Pertinent details Stay time(s) in a Radiation exposur	by the urgency a te data from sup eerson on s working on of plant statu rea(s) e limits s, if known	t the situation, ervisory	

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-21	APPENDIX A Page 2 of 2	
SEARCH AND RESCUE	REVISION 4	Page 11 of 13	

(8) First aid kit

(9) Flashlights

(10) Stretcher

(11) Other (as needed)

3. Obtain Radiation Exposure Permit (REP) if required.

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	VNGS EMERGENCY PLAN PLEMENTING PROCEDURE		PROCEDURE NO. EPIP-21	APPENDIX B Page 1 of 2
	SEARCH AND RESCUE		REVISION 4	Page 12 of
	HAZARDS CONTROL O SEARCH AND RESCUE INF	COORD	INATOR TION SHEET	
1.	Date	T	ime	
2.	OSC Coordinator			
	Team Members: a			(Leader)
	b			
1	There far an			acation.
4.	Identity of Missing Individual(s)		Probable Lo	pearion
4.	Identity of Missing Individual(s)			
4.		-		
4.	Identity of Missing Individual(s)	-		
		(circ		
	Potential Conditions at Location	(circ f.	le):	
	Potential Conditions at Location a. Contamination	(circ f. g.	le): Steam Filled	
	Potential Conditions at Location a. Contamination b. High Radiation	(circ f. g.	le): Steam Filled Wreckage Loss of Lights Other	
	Potential Conditions at Location a. Contamination b. High Radiation c. Fire	(circ f. g. h.	le): Steam Filled Wreckage Loss of Lights	
5.	Potential Conditions at Location a. Contamination b. High Radiation c. Fire d. Smoke Filled	(circ f. g. h. i.	le): Steam Filled Wreckage Loss of Lights Other (Specify)	

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	NGS EMERGENCY PLAN PLEMENTING PROCEDURE	PROCEDURE NO. EPIP-21	APPENDIX B Page 2 of 2
	SEARCH AND RESCUE	REVISION 4	Page 13 of 1
8.	HAZARDS CONTROL CO SEARCH AND RESCUE INFORMAT Missing individual(s) located - Tr	TION SHEET (CONT'D	
9.	Condition of missing individual(s)		
10.	Rescue completed - Time:		()
			<u>Time</u>
	Performed by Date	Signat	tre

SSIGNED COPY PROCE	PAGE / of INTENT CHANGE: NO YES
1. PROCEDURE TITLE Security	
2. PROCEDURE NUMBER <u>I=PIP-24</u> 2a.Manager concurrence NX to exceed 5 PCNs	REV. <u>3</u> PCN / DATE
3. REASON FOR PCN: Deletion of refere	nes to checklists."
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4. EXPIRATION: Next Reusion 5. AFFECTED STEPS: Page 9, section 4.3.5 EDF Ra	CHANGE REQUIRED: Delete Page 9; Insert 9a
5. AFFECTED STEPS: Page 9, section 4.3.5 EDF Aa	Delete Page 9; Insert 9a
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5. AFFECTED STEPS: Page 9, section 4.3.5 EDF Aa 5. PREPARED BY: <u>Heralla Armiele</u> 12/4	ENTERED IN PROCEDURE BY:
5. AFFECTED STEPS: Page 9, section 4.3.5 EDF Ac 5. PREPARED BY: <u>Heralla Armele</u> SIGNATURE 7. TEMPORARY APPROVAL: <u>NIX</u>	ENTERED IN PROCEDURE BY:

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-24	•
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	4.3.1 Emergency Vehicle Access		5
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	4.3.5 Emergency Operations Facil 4.3.6 Media Access Control	lity Access	9
	4.3.7 Emergency Personnel Idents	firstion	10
	4.3.8 Government Access to the 7	rrrederon.	10

APPENDICES

Appendix A - Emergency Personnel Identification Badge

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SECURITY	EPIP-24 REVISION	the second se
SECURITY	1110 110101011	
	3	Page 4 of 12
1.0 OBJECTIVE		
1.1 To provide methods for expedit response personnel (i.e., NRC Bechtel, etc.) and emergency v	representatives, v	endors.
1.2 To provide methods for control Satellite Technical Support Ce Center (TSC), and Emergency Op an emergency.	nter (STSC), Techn	ical Support
 To provide a means for identify PVNGS Emergency Organization. 	ying personnel ass	igned to the
2.0 <u>REFERENCES</u>		
2.1 Implementing References		
2.1.1 PVNGS Security Plan		
2.1.2 EPIP-13, "Emergency Operat:	ions Facility Activ	vation"
2.1.3 EPIP-28, "Personnel Monitor		
2.1.4 EPIP-29, "Area/Equipment Mo		
2.1.5 75RP-9ZZ01, "TLD Issue, Exc		
2.2 Developmental References		
2.2.1 PVNGS Emergency Plan, Rev.	5	
3.0 LIMITATIONS AND PRECAUTIONS		
3.1 In the event of an emergency at be altered to provide for immed	PVNGS, security m	easures may

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	EMERGENCY PLAN	PROCEDURE NO. EPIP-24	
12		REVISION	
	SECURITY	3	Page 5 of 12
4.0 <u>DETA</u>	ILED PROCEDURE		
4.1 Pe	rsonnel Indoctrination/Respo	onsibilities	
4.1.1	The Security Director is a procedure and insuring the authorized access are perm	at only those person	nnel properly
4.1.2		ea supervisor is re-	sponsible for
	 Control Room/STSC - SH Coordinator Technical Support Cent PVNGS Protected Area - Emergency Operations H Director Operations Support Cent 	ter - Emergency Coor Security Director Facility - Emergency	rdinator y Operations
4.1.3	The Site Emergency Plannin responsible for reviewing, Security the TSC and EOF E on a quarterly basis.	updating and prov-	iding to
4.2 Pr	erequisites		
4.2.1	The PVNGS Emergency Plan h emergency response facilit	as been implemented ties have been activ	d, and vated.
4.3 Ins	structions	a di se di se di se	
4.3.1	Sergency Vehicle Access (Fire, Ambulance, Et	:c.)
4.3.1	1 The Emergency Coordina Director of the estima assistance vehicles an	ted time of arrival	for offeite
4.3.1	2 Upon arrival, a cursor shall be performed by that it is in fact the of occupants shall be ACADS, with proper for	the Security Force requested vehicle. verified and given	to verify The number

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NOTE

Personal dosimetry shall be issued to individuals requiring access to radiologically controlled areas in accordance with 75RP-92Z01, "TLD Issue, Exchange, and Termination."

4.3.1.3 The vehicle(s) shall then be admitted to the protected area. The emergency vehicle(s)/personnel shall be escorted at all times while within the protected area in accordance with normal security procedures.

NOTE

If contamination of vehicles or personnel is suspected, monitoring and decontamination should be performed in accordance with EPIP-28, "Personnel Monitoring and Decontamination", and EPIP-29, "Area/Equipment Monitoring and Decontamination", as necessary, prior to vehicle/personnel departure.

4.3.1.4 Upon completion of required casualty actions the emergency vehicle(s) shall proceed to the gate requested, where the number of occupants shall be noted and compared to the number who entered the station.

NOTE

For exiting ambulance(s), it should be verified that the number of outbound personnel is the same as inbound <u>PLUS</u> the injured person(s) and all ACADS retrieved.

4.3.1.5 If there is any discrepancy between the number of offsite assistance personnel admitted and those departing, Security Force personnel shall contact the Security Director for further action prior to releasing the vehicle(s).

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4.3.2 Protected Area Access

NOTE

The Emergency Coordinator may at any time direct the Security Director to limit access to the station.

4.3.2.1 At the declaration of an ALERT, SITE AREA EMERGENCY or GENERAL EMERGENCY and/or the initiation of personnel assembly and accountability, the Security Director shall take immediate steps to limit access to the protected area to those personnel possessing a normal protected area Key-card.

4.3.2.2 Whenever a locked Vital area must be entered by emergency personnel, cardkey(s) issued to authorized escort(s) and/or emergency team members shall be used to affect necessary entry.

NOTE

Missile doors of the type at each unit's 140' elevation do not incorporate electromechanical locks; if closed and bolted, these doors may be opened by rotating their wheel-cranks counterclockwise until their extended sliding bolts are fully withdrawn. However if power loss occurs, wheel-cranks free-wheel and will not open.

4.3.2.3

If Vital area and/or missile doors equipped with electro-mechanical locks cannot be opened by emergency personnel/escorts using their issued cardkeys because of electromagnetic lock malfunction or computer failure, contact Security for assistance in accessing the door.

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el .		REVISION	
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4.3.2.4	ANPP personnel who are not been previously as Emergency Personnel Ac protected area key-car Visitor Processing Tra notify the Emergency C reporting to the stati	signed and identif cess List and/or d d shall report to tiler. The Securit coordinator of these	ied in an to not possess a the Security y Director shall e personnel
4.3.2.5	Vendor, contractor, NR specified in an Emerge only be admitted follo procedures and shall b accordance with establ	C, Bechtel, and ot mcy Personnel Acce wing routine visit e escorted, if pos	her personnel no ss List shall or badging sible, in
4.3.2.6	If conditions warrant, direct the Security Di County Sheriff's Offic access to the PVNGS ar	rector to contact e for assistance in	the Maricona
4.3.3 Tec	hnical Support Center A	ccess	
4.3.3.1	Upon activation of the request that a member at the entrance to the personnel whose name ap Personnel Access List.	of the Security For TSC to limit access ppears on the TSC 1	rce be stationed
4.3.3.2	All other personnel re- receive verbal authori: Coordinator or Personne in turn notify the Seco	el Resources Coord	ergency
4.3.3.3	The TSC staff shall obtain their Emergency Personnel Identification Badge (Appendix A) from its storage location in the TSC and wear it in addition to their security badge. This badge shall be transferred whenever functional responsibility is transferred from one individual to another.		
4.3.4 Con	trol Room/STSC Access		

4.3.4.1 Normal key-card Control Room access procedures shall be in effect during emergency conditions with the following stipulations:

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		PCV
(1) The Shift Supervisor declaration of a NOT access to the Contro personnel onshift ar specifically authors Coordinator.	FIFICATION OF UNU ol Room to those ad only those per lzed by him or th	SUAL EVENT limit Operations sonnel e Emergency
(2) During ALERT, SITE A EMERGENCY condition, assigned Emergency O those personnel spec Supervisor or the Em	access shall be organization pers	limited to onnel and only zed by the Shift
4.3.5 Emergency Operations Facilit	y Access	
4.3.5.1 Upon activation of the E proceed to the EOF and p "Security Force Member C Operations facility Acti those personnel whose na Personnel Access List.	hecklist", of EP	ns of Appendix P, IP-13, "Emergency
4.3.5.2 The Security Coordinator assume responsibility fo "Security Coordinator Ch	F KOK ACCORD DA	a American de Maria
4.3.5.3 All other personnel requ receive verbal authoriza Operations Director or A Coordinator who shall in Coordinator to grant acc	dministrative and turn notify the	ergency
4.3.5.4 If the Emergency Operati Administrative and Logis personnel to report to t previously granted acces should be immediately no arranged.	tics Coordinator he EOF who have r	requests tot been
4.3.5.5 The EOF staff shall obta Identification Badge (App location in the EOF and to security badge. This bac functional responsibility individual to another.	pendix A) from it wear it in additi	s storage on to their
		\

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-24	
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- declaration of a NOTIFICATION OF UNUSUAL EVENT limit access to the Control Room to those Operations personnel onshift and only those personnel specifically authorized by him or the Emergency Coordinator.
- (2) During ALERT, SITE AREA EMERGENCY or GENERAL EMERGENCY condition, access shall be limited to assigned Emergency Organization personnel and only those personnel specifically authorized by the Shift Supervisor or the Emergency Coordinator.

4.3.5 Emergency Operations Facility Access

- 4.3.5.1 Upon activation of the EOF, a Security Force Member shall proceed to the EOF and perform the actions of Appendix P, "Security Force Member Chastility", of EPIP-13, "Emergency Operations Facility Activation" and restrict access to those personnel whose name appears on the EOF Emergency Personnel Access List.
- 4.3.5.2 The Security Coordinator, upon arrival at the EOF, shall assume responsibility for EOF access, per Appendix K, "Security Coordinator Charling" of EPIP-13.
- 4.3.5.3 All other personnel requesting access to the EOF shall receive verbal authorization from the Emergency Operations Director or Administrative and Logistics Coordinator who shall in turn notify the Security Coordinator to grant access.
- 4.3.5.4 If the Emergency Operations Director or the Administrative and Logistics Coordinator requests personnel to report to the EOF who have not been previously granted access, the Security Coordinator should be immediately notified so that access may be arranged.
- 4.3.5.5 The EOF staff shall obtain their Emergency Personnel Identification Badge (Appendix A) from its storage location in the EOF and wear it in addition to their security badge. This badge shall be transferred whenever functional responsibility is transferred from one individual to another.

	RGENCY PLAN	PROCEDURE NO. EPIP-24	1.1.1
		REVISION	
SEC	URITY	3	Page 10 of 12
4.3.6 Med	lia Access Control		
4.3.6.1	At NOTIFICATION OF UNU Force Members shall re intarcepted at access News Center (Visitor's the emergency.	fer all media repr	esentatives
4.3.6.2	At an ALERT or higher Members shall refer al at access points or on Center (JENC), 5636 E. information concerning	l media representa site to the Joint McDowell Road, Ph	tives intercepted
4.3.7 Eme	rgency Personnel Identi	fication	
4.3.7.1	Each functional assign Response Organization A for sample.)	ment in the PVNGS should have a badg	Emergency e. (See Appendix
4.3.7.2	Emergency personnel id updated concurrently w review.	entification shall ith the annual PVN	be reviewed and GS Emergency Plan
4.3.7.3	Emergency Personnel Id in station emergency r EOF, OSC and Service B	esponse facilities	TSC CD/CTCC
4.3.7.4	The Emergency Personne used to identify the f individual and to tran relieved.	unctional responsi	bility of the
4.3.7.5	The Security Coordinat badges are being prope	or should periodic rly displayed at t	ally determine if he EOF.
4.3.7.6	The Security Director badges are being prope Building.	should periodicall rly displayed at t	y determine if he TSC/Service
4.3.7.7	The Shift Supervisor s badges are being prope Room/STSC.	hould periodically rly displayed in t	determine if he Control
4.3.7.8	The OSC Coordinator she badges are being prope	ould periodically	determine if

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4.3.8 Government Access To The TSC/EOF

- 4.3.8.1 Provision shall be made for a limited number of government employees in the EOF/TSC. This shall include representatives from the Nuclear Regulatory Commission (NRC) (EOF and TSC), Federal Emergency Management Agency (FEMA) (EOF only), and State of Arizona (EOF only).
- 4.3.8.2 NRC Officials listed on the NRC Personnel Response List (held by Security) shall be granted access to the EOF or TSC <u>IMMEDIATELY WITHOUT DELAY</u> after registering with Security.
- 4.3.8.3 All other government personnel shall report to the EOF and comply with Step 4.3.2.5 of This EPIP.

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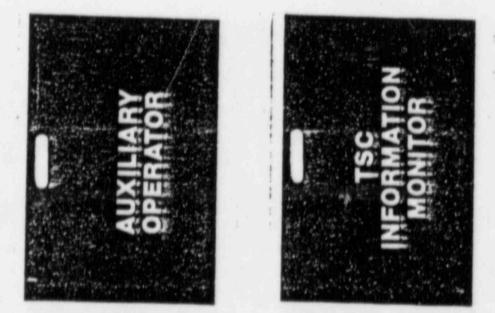
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EMERGENCY PERSONNEL IDENTIFICATION BADGE

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			made gramm	natical changes to
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radi	ddress required authorizatio eria in the event it becomes ation or contaminated areas mergency repair/operations.	necessary to ente	r high
2.0 <u>REFE</u>	RENCES		
2.1 Im	plementing References		
2.1.1	EPIP-02, "Emergency Classi	fication"	
2.1.2	EPIP-18, "Emergency Exposu	re Guidelines"	
2.1.3	EPIP-22, "Personnel Injury"		
2.1.4	EPIP-26, "Potassium Iodide (KI) Administration"		
2.1.5	EPIP-28, "Personnel Monitor	ring and Decontamin	nation"
2.1.6	EPIP-29, "Area/Equipment Mo	onitoring and Decor	ntamination"
2.1.7	75RP-92244, "Radiation Expo	osure Permits."	
2.1.8	9N219.05.00, "Document/Reco	ord Turnover Contro	."
2.2 Dev	elopmental References		
2.2.1	NCRP Report #39, "Basic Rad 1971.	liation Protection	Criteria,"
2.2.2	EPA-520/1-75-001, "Manual o Protective Actions for Nucl 1980	of Protective Actic ear Incidents," Re	on Guides and vised June,
2.2.3	10CFR20, "Standards for Protection Against Radiation," 1983		
2.2.4	75PR-0ZZ01, "Radiation Protection Program," Rev. 3.		
2.2.5	NUREG-0737, "Clarification Requirements," October, 198	of TMI Action Plan 0	
2.2.6	75AC-92201, "Radiation Expo 3.	sure and Access Co	ntrol," Rev.
2.2.7	EPIP-16, "Inplant Surveys and Sampling" Rev. 3.		

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	ERGENCY PLAN	PROCEDURE NO. EPIP-25	
		REVISION	
REENTRY FOR EN	MERGENCY OPERATIONS	4	Page 5 of 1
3.0 LIMITATI	ONS AND PRECAUTIONS		
3.1 Emerge "Emerg	ency Exposures shall be ency Exposure Guideline	authorized per EPIP s."	-18,
remain	strative methods to min. in force to the extent tive or protective action	consistent with ti	osure should mely
3.3 Person measur includ	nel shall wear dosimeter ement of anticipated exp e:	rs appropriate for to posure levels. The	the se should
3.3.1 Th	ermoluminescent Dosimete	er (Legal)	
3.3.2 Th	ermoluminescent Dosimete	er (Job)	
3.3.3 Ex	tremity Dosimeters, if a	appropriate (Appendi	Lx A, Note 2)
3.3.4 Al	arming Dosimeters		
aunini	ium Iodide (KI) tablets, stered in accordance wit dministration."	if necessary, shal th EPIP-26, "Potassi	l be um Iodide
3.5 Append	in B shall be forwarded	to Smorrow Planni	
. robar	Saucha Debr Ior Stollare	000 9N219 05 00	ing dild-
Docum	ent/Record Tarnover Cont	rol.	
.0 DETAILED	PROCEDURE		
4.1 Person	nel Indoctrination/Respo	nsibilities	
4.1.1 The Cod	e Radiological Protectio ordinator shall authoriz IP-18.	n Coordinator and/o	r Emergency es per
Coc	e Operations Support Cen ergency repair teams, as ordinator from the Contr ganization or the Emerge TSC in the onsite organ	directed by the Em ol Room/STSC in the new Maintenance Coo	ergency

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	EMERGENCY PLAN	PROCEDURE NO. EPIP-25	
		REVISION	
REENTRY FO	DR EMERGENCY OPERATIONS	- 4	Page 6 of 11
4.1.3	The Emergency Repair Team Maintenance Technicians. necessitate, a Radiation H be assigned to the team.	If radiological co	nditions
4.1.	3.1 The Emergency Repair T with the OSC Coordinat (onsite).	Ceam Leader shall c for or Repairs Coor	ommunicate dinator
4.1.	3.2 The Radiation Protecti responsible for assess	on Technician shal	l be onditions.
4.2 Pr	erequisites		
4.2.1	An incident has occurred w provisions of EPIP-02, "Em	hich has been class ergency Classificat	sified per the tion."
4.2.2	The onsite Emergency Coord Maintenance Coordinator or Coordinator has determined crucial to the needs of th thè onshift organization, this determination.	the Radiological H emergency repair/c e Emergency Organia	Protection operations are
4.3 In:	structions		
4.3.1	The <u>onsite</u> Emergency Coord Coordinator/Radiological P provide the OSC Coordinator	roraction Coordinat	and the state
	1) The work to be per	formed;	
	2) How many people the	e work requires;	
	 What tools, spare pare pareded; 	parts, equipment, e	tc. are
	4) Radiological condit	tions, if known.	
4.3.2	If emergency exposures are Protection Coordinator shal Coordinator with a radiolog situation(s) requiring emer Exposure Permit (REP) author shall be completed in according	Il provide the Emer gical evaluation of rgency exposure(s).	gency the A Radiation

PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-25	
		REVISION	
REENTRY FOR E	MERGENCY OPERATIONS	4	Page 7 of 11
	 The Emergency Team in accordance with Appendix B, prior 	the REP and review	ir activities items 1-5 of
RI	f emergency exposures are rotection Coordinator or 1 EP detailing specific pro- oses and the following AL	his designee shall	annul and all
	(1) Preplanning		
	(2) Detailed work proce	edures	
	(3) Special task trains	ing, if time allows	
	(4) "Dry Run," if time		
	(5) Stay time		
	(6) Route to take to th	e repair operation	location
	(7) Adequate ventilatio	on, lighting, water,	etc.
4.3.4 Pe	rsonnel Exposure Control		
4.3.4.1	The Emergency Repair Te conditions specified in	am shall abide by a the REP.	11
	CA	UTION	٦.
	ENTER ANY AREA W	PAIR TEAM SHALL NOT HERE DOSE RATES ARE TH SURVEY INSTRUMEN LABLE.	
4.3.4.2	Enter suspected radiation high scale switching to	on areas with the m lower scales as ne	eter set on the
4.3.4.3		tion/repair locatio chnician, if availa	n, the

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-25	1.25
REENTRY FOR EM	REENTRY FOR EMERGENCY OPERATIONS		Page 8 of 11
4.3.4.4	If radiological condit operations/maintenance	ions permit, perfo	orm the required
4.3.4.5	Personnel unable to co dose shall exit the ra	omplete the task wi diation area.	thin the allotted
4.3.4.6	If radiological or oth repair team from compl Repair Team Leader sha information to the Eme Repairs Coordinator (o	eting the task, th 11 immediately rep rgency Coordinator	e Emergency
4.3.5 Sub	sequent Actions		
4.3.5.1	Emergency Repair Team Leader shall ensure personnel are checked for contamination. Decontaminate as necessary per EPIP-28, "Personnel Monitoring and Decontamination."		
4.3.5.2	Emergency Repair Team checked for contaminat per EPIP-29, "Area/Equ Decontamination."	10n. Decontaminati	as nacaseast
4.3.5.3	The Radiological Protect promptly obtain initia dose of exposed persons	estimates of the	(RPC) shall radiation
4.3.5.4	The RPC shall update as time.	nd refine dose est:	imates at a later
4.3.5.5	The RPC shall immediate 10CFR20 limits to the H	ely report exposure Emergency Coordinat	es in excess of or.

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-25	APPENDIX A Page 1 of 1
REENTRY FOR EMERGENCY OPERATIONS	REVISION 4	Page 9 of 11
MAXIMUM PERMISSIBLE FOR OCCUPATIONAL	DOSE LIMITS WORKERS	
DOSE LIMIT	<u>.s</u>	
Critical Organ		mrem/quarter
Whole Body, Head and Trunk, Active Blood-Forming Organs, Lens of the Eye or Gonads		1,250 ¹
Hands, Forearms, Ankles, Feet		18,750 ²
Skin of Whole Body		7,500 ²
Other Organs (Thyroid), Tissues and Organ Systems	5,0004	

- 3,000 m.llirem is permitted in a calendar quarter or 12,000 millirem in a year as long as the accumulative occupational dose to the whole body does not exceed 5,000 millirem x (age - 18) and the individual's lifetime exposure history is recorded on the NRC's Form 4 or equivalent. Doses exceeding 1,230 mrem/quarter must be reported to the NRC per 10CFR20.403 and 10CFR20.405.
- 2. The licensee is required to supply appropriate personnel monitoring equipment and shall require the use of such equipment by each individual who enters a high radiation area or that receives or is likely to receive a dose in any calendar quarter in excess of 25% of the applicable 10CFR20 value.
- 3. NCRP Guidance.
- 4. NUREG 0737.

CONTROLLED DOCUMENT

	NGS EMERGEN		PROCEDURE NO. EPIP-25	APPENDIX B Page 1 of 2
			REVISION	
R	EENTRY FOR EMERGEN	CY OPERATIONS	4	Page 10 of 11
		EMERGENCY REPAI RESPONSE		
POSTTION	FILLED BY:	in a second to	1	
.03111014	FILLED DI:	At least tw Radiation P	o Technicians per Protection Technici	team:
		Chemical Te		an
		Mechanical	Maintenance Techni	cian
		Electrical	Maintenance Techni	cian
		I & C Maint	enance Technician	
RESPONSI	BILITY:	Perform eme	rgency repairs/ope	rations.
MMEDIAT	E ACTIONS			
1. Obta	ain description of	work to be senfe		
supe	ervisory individua	l:	rmed from	
2. Obta	ain the following	equipment as requ	ired:	
(1)	Portable radio			
(2)		y instruments		
(3)	High range beta	gamma survey met	er	
(4) (5)		-alarming)		
(6)	Protective clot	ning		
	Tools as require	ed		
(8)	Spare parts as	required		
(9)	Other (as requir	red)		
. Obta	in Radiation Expos	sure Permit (REP)	if required.	
. Take	KI Tablet if auth	norized and desire	ed.	

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-25	APPENDIX B Page 2 of 2
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EMERGENCY REPAIR TEAM RESPONSE (Continued)

SUBSEQUENT ACTIONS

High Radiation

 Obtain Emergency Coordinator's* authorization before exceeding 10CFR20 exposure limits.

Decontamination

6. Be checked for contamination.

7. Decontaminate self as required, per EPIP-28.

8. Decontaminate equipment as required, per EPIP-29.

* The Radiological Protection Coordinator may authorize exposures in excess of PVNGS Administrative Radiation Exposure Limits up to the limits of 10CFR20.

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-31	
RECOVERY	REVISION 4	Page 1 of 12

ASSIGNED COPY PVNCS # 8-98

DEPT. HEAD Harey I. Bulling for Deanie Yours DATE 12/4/85 PRB/PRG/TRRG REVIEW A BULLINGUL DATE 1/2/84 APPROVED BY DATE 1/2/84 EFFECTIVE DATE 01.15-86 DN-1667A/0196A

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IMPLEME	EMERGENC		PROCEDURE NO. EPIP-31	,
RECOVERY			REVISION 4	Page 2 of 12
		REVISION HI		
Rev. No.	Date	Revised Pages		Comments
3	4-18-85	All		
	4-10-05			ocedure to reflect
			lessons le	arned from emer-
			gency exer	cises and drills.
			Also added	new Recovery
			Manager's	Checklist.
4	61.15.00	3,4,5,8,10,	Deleted Re	covery Manager's
		_11,12	Checklist.	
		<u>11.1.15.225</u>		
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Appendix B - Recovery Manager Response

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	EMERGENCY PLAN	PROCEDURE NO. EPIP-31	
	RECOVERY	REVISION 4	Page 4 of 12
1.0 <u>OBJE</u>	CTIVE		
co	is procedure prescribes tho identify the extent of sta ntamination (if any) and re atus which is in compliance ecifications.	tion damage and rad turn the station to	liological
2.0 <u>REFE</u>	RENCES		
2.1 Im	plementing References		
2.1.1	9N219.05.00, "Document/Red	cord Turnover Contr	ol"
2.2 De	velopmental References		
2.2.1	NUREG-0654, Rev. 1, "Crite Evaluation of Radiological Preparedness in Support of	L Emergency Respons	A Plans and
2.2.2			
2.2.3	ANSI N45.2.9-1974, "Requir and Maintenance of Quality Power Plants"	rements for Collect Assurance Records	ion, Storage, for Nuclear
3.0 LIMIT	ATIONS AND PRECAUTIONS		
ACI	osure to personnel should b ievable consistent with the ration required.	e kept As Low As Re nature of the reco	easonably overy
3.2 Rec	overy operations may begin	when the unit is in on shall be taken w	a controlled

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	EMERGENCY PLAN	PROCEDURE NO. EPIP-31	
11.1		REVISION	
	RECOVERY	4	Page 5 of 1
	Start Street Street St.		
4.0 <u>DET</u>	AILED PROCEDURE		
4.1 Pe	ersonnel Indoctrination/Respo	onsibilities	
4.1.1	Recovery operations for PV phases. Phase I efforts is undertaken during and imme emergency. These measures of the emergency organizat corporate and short-term of recovery operations include efforts that follow a major are performed by station a contract experts and speci- contractors under the di Organization.	involve recovery me ediately following a are a functional ion and may be au contract support. the the longer term or incident. These and other ANPP pers. alists, and qualif	asures the responsibility gmented by Phase II post-emergency operations onnel, ied engineers
4.1.2	The Emergency Operations D Emergency Coordinator, is this procedure.	irector, with the responsible for imp	advice of the plementing
4.2 Pr	erequísites		
4.2.1	Radiation levels are stabl	e or decreasing wit	th time.
4.2.2	Releases of radioactive ma ceased or are controlled w	terials to the envi ithin permissible 1	ironment have license limits.
4.2.3	Fire or other similar emer constitute a hazard to the	gency conditions no unit or unit perso	longer canel.
4.2.4	Measures have been success compensate for malfunction	fully instituted to ing equipment.	correct or
4.3 In	structions		
4.3.1	Upon recognition that the p been established, the Emer establish the Recovery Org Appendix A and function as Manager Response."	gency Operations Di anization as depict	rector shall
4.3.2	The Emergency Operations D and responsibilities of the via NAN, affected offsite organizations and the NRC	Recovery Manager	and notify,

	EMERGENCY PLAN ENTING PROCEDURE	PROCEDURE NO. EPIP-31	
		REVISION	
	RECOVERY	4	Page 6 of 12
4.3.3	For known or suspected sig discretion of the Recovery formed consisting of Opera and Radiation Protection p	Manager, survey t tions. Engineering	eams may he
4.3.4	These teams shall perform to ascertain the extent of contamination/high radiati	physical damage an	y of the unit nd areas of
4.3.5	The results of these surve Recovery Manager, the Stat Plant Manager or designate Radcon/Radwaste Manager (R designated alternate) in p utilized in repairing and operation.	ion Operations Man d alternate), and adiation Services M lanning the approx	ager (PVNGS Manager or
4.4 P1	anning		
4.4.1	Under the direction of the recovery organization memb personnel, shall address to the recovery effort.	ers, as well as col	anted affects
4.4.2	Such activities as the rep station system/components, decontamination, as well as portable shielding and spee discussed, prioritized, and	modification, inst s determining the n	allation, and
4.4.3	The Planning/Scheduling Mar designated alternate) shall guide the recovery effort.	nager (Manager, Sch 1 develop an overal	eduling or l schedule to
4.5 Re	covery Implementation		
4.5.1	Upon definition of the prob of the overall recovery pla procedures, and allocation and properly trained person shall begin.	in, development of	any special
4.5.2	In lieu of any special requ normal unit practices shall maintenance, repair, modifi personnel exposure control.	De followed conce	and a second

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MPLEME	EMERGENCY PLAN	PROCEDURE NO. EPIP-31	
		REVISION	
	RECOVERY	4	Page 7 of 12
4.5.3	The Recovery Manager (Assi Production or designated a corporate responsibility f normal operating configura	ilternate) shall ha	Ve overall
4.5.4	The Radcon/Radwaste Manage designated alternate) shal plans to process and contr wastes, periodically estim conjunction with state and also coordinate activities and Radiation Protection p	l, in addition to ol liquid, gaseous ate total populati. federal authoriti of staff Radiolog	developing , and solid on dose in es. He shall
4.5.5	The Station Operations Man designated alternate) mana operations and during reco that repairs and modificat recovery plant operational	ager (PVNGS Plant ! ges day-to-day inp very is responsible ions shall optimize	Manager or lant for ensuring
4.5.6	The Design and Construction Construction Manager or des necessary engineering, des on those aspects of plant is modification, or new construction, or new construction construction/repair work.	signated alternate) ign, and construct: recovery requiring	, focuses on resources redesign,
4.5.7	The Technical Support Managor designated alternate) should be should be should be added and procedures a sperations.	all provide analys	10
4.5.8	The Quality Assurance Manag Assurance or designated alt overall conduct of recovery accordance with corporate p governing activities which safety.	ernate) shall insu operations is per	re that the formed in
4.5.9	The Administrative/Logistic Administrative Services or supply administrative, logi	decimperad alter	and the second second

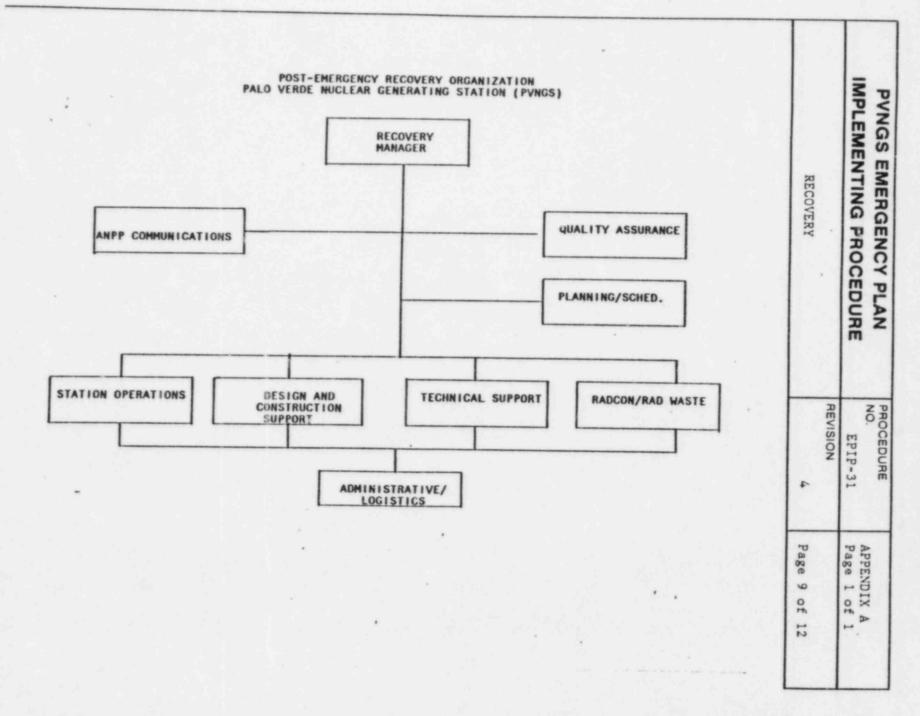
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-31	
	RECOVERY	REVISION 4	Page 8 of 12
4.5.10	The Manager, ANPP Communic shall coordinate the flow concerning recovery operat	of information to	ted alternate the media
		proceeds, any unifo	

- problems which are encountered shall be evaluated and factored into the overall recovery plan. The schedule should be adjusted accordingly.
- 4.5.12 Upon completion of the recovery effort, Technical Specifications compliance shall be verified prior to beginning normal unit operations.
- 4.5.13 Each individual in the Recovery Organization, upon completion of the recovery effort, shall submit any written documentation to the Recovery Manager who ensures it is forwarded to Emergency Planning and Preparedness Department for storage in accordance with 9N219.05.00, "Document/Record Turnover Control."

4.6 Training

4.6.1 In consideration of the situation to be handled, special training material should be developed and training conducted for special work tasks to the maximum extent possible.



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	RGENCY PLAN	PROCEDURE NO. EPIP-31	APPENDIX B Page 1 of 3
RE	COVERY	REVISION 4	Page 10 of 12
	BEALTRY VINC		
	RECOVERY MANAG	ER RESPONSE	
Position Filled By:	Assistant Vice-Preside designated alternate.	ent, Nuclear Produc	ction or
<u>Responsibilities</u> :	The Recovery Manager s responsibility for res operating configuration	storing the station	corporate to normal
ACTIONS :			
1. EOD evaluate pl	ant conditions.		
 If plant condit should: 	ions meet prerequisites	for recovery in E	PIP-31, the EOD
(1) Request the	Recovery Organization	meet in the EOF.	
(The Recove	ry Manager may assign p ailable individuals fro	arconnal to the De	covery Organization s of appropriate
• Station O	perations Manager		
• Design an	d Construction Manager dwaste Manager		•
 Technical 	Support Manager		
 Planning 	ative and Logistics Man and Scheduling Manager	ager	
• Manager, • QA Manage	ANPP Communications		
• NRC			
(2) Direct Gove NAN of curr	rnment Liaison Engineer ent plant conditions.	to inform offsite	facilities over th
(3) Direct EOF (Contact to inform JENC	and CHIC of current	plant conditions.

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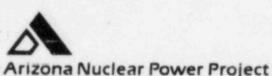
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	PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	PROCEDURE NO. EPIP-31	APPENDIX B Page 2 of 3
		REVISION	
	RECOVERY	4	Page 11 of 12
	RECOVERY MANAGE	ER RESPONSE	
	(4) Direct Technical Analysis Coordina inform CEC of current plant condition	ator, or other memb tions.	per of EOF staff, to
	(5) Inform Recovery Organization and M prerequisites for downgrading have we move from a classified emergence	e been met. Ask NR	C if they concur the
	(6) Indicate that:		
	 Plant conditions are stable. Release terminated or within open license limits. Preliminary surveys of the Unit Radiation levels decreasing or s Radiation Protection will author 	completed.	
3.	If the NRC concurs "downgrade" to Reco	overy Operation:	
	(1) EOD or alternate call State TOC an	nd indicate downgra	ding to Recovery.
	(2) Inform the CHIC/JENC of Recovery. briefing at JENC and facilitate tr Forward News Centery and/or CHIC a	ansfer of press on	coordinate final news erations to the
	(3) Call each facility and inform them their facility until specifically location or Recovery assignment.	h that they are req directed back to t	uested to remain in heir normal work
4.	Recovery implementation meeting		
	(1) Assessment of current status (Unit	condition).	
	(2) Assess personnel exposures and nee	d for additional de	econtamination.
	(3) Areas contaminated; access with pr	otective gear, or a	no access.

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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE		PROCEDURE NO. EPIP-31	APPENDIX B Page 3 of 3
	RECOVERY	REVISION 4	Page 12 of 12
	RECOVERY MANA	GER RESPONSE	
1	(4) Assessment of hardware.		
	(5) Plan to achieve cold shutdown.		
	(6) Plan to recover buildings or area	as.	
	(7) Need for offsite support.		
	(8) Plan to record/document event det	ails.	
	(9) Plan to produce information for p audiences.	public, media, emplo	oyees, and other
89	(10) Plan for logistical support.		
1	(11) Accounting for the costs and prel	iminary estimates t	o owners.
	(12) NRC involvement and interfaces.		
	(13) Assign work groups, tasks and sta	iffing.	
5.	Completion of Recovery effort.		
	 Request all members of the Recove to the Recovery Manager for forwa Preparedness Department. 	ry Organization to rding to the Emerge	submit all documents ncy Planning and

vizona Nucle	ear Power Pr	oject		REVISIO PAGE	
TITLE: EMER	GENCY PLAN TR	AINING			
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AT1201

TITLE: EMERGENCY PLAN TRAINING

1.0 PURPOSE AND SCOPE

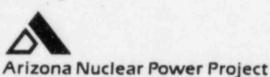
- 1.1 This Procedure implements the ANPP policy to provide Emergency Plan training appropriate to the needs of ANPP and APS personnel, to on-site and off-site personnel who functionally participate in Emergency Plan activities, and to certain affected segments of the public.
- 1.2 This Procedure describes methods of providing and documenting Emergency Plan training for on-site and off-site Emergency Plan participants and for appropriate segments of the public.
- 1.3 This Procedure meets the functional definition of an Emergency Plan Implementing Procedure and as such, shall require an annual (12 month) review and filing with the NRC.

2.0 DEFINITIONS AND ABBREVIATIONS

- 2.1 CEC Corporate Emergency Center
- 2.2 CHIC Corporate Headquarters Information Center
- 2.3 EOF Emergency Operations Facility
- 2.4 EPIP Emergency Plan Implementing Procedure
- 2.5 JENC Joint Emergency News Center
- 2.6 OSC Operations Support Center
- 2.7 PCN Procedure Change Notice
- 2.8 STSC Satellite Technical Support Center
- 2.9 TSC Technical Support Center
- 2.10 Yearly Training Cycle A cycle of training where periodic retraining is required twelve (12) months from the completion date of the last successfully completed course. In the event retraining is completed in less than twelve (12) months, the retraining date may be adjusted to twelve (12) months from the date of completion.

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SECTION

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TITLE: EMERGENCY PLAN TRAINING

2.11 <u>Retraining Date</u> - That date by which retraining in a particular training course should be received and successfully completed. The retraining date is the last day of the month in which an individual completed a particular course in the previous year.

3.0 RESPONSIBILITIES

3.1 Manager, Emergency Planning shall be responsible for:

- 3.1.1 Reviewing the contents of courses developed for Emergency Plan training and for ensuring that off-site (excluding EOF) Emergency Plan training is conducted.
- 3.1.2 Providing to the PVNGS Training Manager a listing of personnel assigned to positions by Social Security Number vice job code who require initial training.
- 3.1.3 Providing to supervisors on a bimonthly basis, the Emergency Plan Staffing List for review and update of personnel currently assigned to their group.
- 3.1.4 Notifying the PVNGS Training Manager of any Procedure Change Notice (PCN) or revision to an Emergency Plan Implementing Procedure (EPIP).
- 3.1.5 Coordinating training for off-site organizations involved in rendering assistance to PVNGS (corporate, news media, external assisting agencies) as required.
- 3.1.6 Ensuring the Emergency Planning Staffing List is current after receiving input from the PVNGS Training Manager and/or responsible supervisors.
- 3.1.7 Providing to all ANPP employees each calendar year, a letter describing the Onsite Siren System, its sounds, actions to be taken and the phone number of recorded siren sounds.



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Arizona Nuclear Power Project

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TITLE: EMERGENCY PLAN TRAINING

3.2 Manager, Plant Services

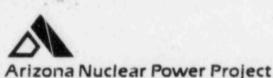
Responsible for development and implementation of appropriate Emergency Plan training for ANPP personnel that have specific on-site emergency plan responsibilities.

- 3.3 PVNGS Training Manager shall be responsible for:
- 1451616 Updating, preparing, approving, coordinating and conducting 3.3.1 on-site PVNGS Emergency Response Training (On-shift, On-site and EOF ANPP personnel). 871.111.11
 - Providing to the Manager, Emergency Planning, on a 3.3.2 bi-monthly basis, names of individuals who are now fully qualified for inclusion on the Emergency Plan Staffing List.
 - ANPP Supervisors shall be responsible for: 3.4
 - 3.4.1 Ensuring their designated personnel maintain Emergency Plan qualifications by meeting all applicable Emergency Plan Training/Retraining requirements within the yearly training cycle.
 - 3.4.2 Reviewing the Emergency Plan Staffing List, as provided, and forwarding any personnel additions or deletions to the Manager, Emergency Planning. The lack of response by a supervisor shall be construed as no changes to the staffinglist were necessary at that time.

3.5 Individual employees are responsible for attending Emergency Plan Training/Retraining on dates assigned by their supervisor.

4.0 PROCEDURE

On-shift, On-site and EOF Staff training shall be conducted in accordance with References 5.1.1, 5.1.2, 5.2.1. Offsite staff training shall be conducted in accordance with Reference 5.1.6.



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PROC NO: 8N718.04.00 REVISION: 3 PAGE 4 OF 13 DATE: 01/02/86

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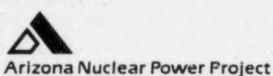
TITLE: EMERGENCY PLAN TRAINING

4.1 Basic Training and Indoctrination

4.1.1 Personnel requiring unescorted access into the security protected area shall receive general instructions on the Emergency Plan annually as part of Site Access (Re)Training:

4.2 Emergency Organization Training

- 4.2.1 ANPP personnel assigned to the On-shift, On-site or Off-site Emergency Organizations shall receive initial and annual retraining specific to their emergency assignment or facility (See Attachment 1, 2 and 3).
 - 4.2.1.1 Personnel should be rescheduled for Emergency Plan retraining on, or before, the retraining date for that course.
 - 4.2.1.2 The individual may exceed the retraining date by up to 90 days without changing the yearly training cycle for that course.
 - 4.2.1.3 If the 15-month training cycle is exceeded any authority or qualification based on that training shall be rescinded. Initial Emergency Plan training shall then be required to restore qualification.
- 4.2.2 Personnel who are unable to successfully complete an initial training class shall be rescheduled for that class or, at the discretion of the instructor may receive remedial training.
 - 4.2.3 Personnel who are unable to pass the retraining examination shall be rescheduled for initial training of that class.
 - 4.2.4 Additional retraining of individuals shall be conducted whenever necessitated by significant revisions to the Emergency Plan and/or implementing procedures as determined by the Manager, Emergency Planning.
 - 4.2.5 In addition to formal classroom instruction, drills and exercises shall be conducted to enable personnel to further develop their skills in dealing with an emergency.



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TITLE: EMERGENCY PLAN TRAINING

4.2.6 Annually, the Manager, Emergency Planning shall review the lesson plans used for teaching emergency planning courses.

4.3 Off-site Agency Training Alle arriess is "weith

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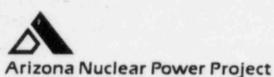
The Manager, Emergency Planning shall ensure coordination of annual training for members of the following off-site support agencies:

- Maricopa County Department of Civil Defense and Emergency Services. 827.6.
- Atizona Radiation Regulation Agency.
- Maryvale Samaritan Hospital.
- 0 Good Samaritan Medical Center.
- 0 Backup Ambulance Service.
- 0 Bechtel Fire Department.
- Others as deemed necessary.
- 4.3.2 Training should be specific to the agencies' response assignment and, at a minimum, include the following:
 - Basic radiation protection and emergency dosimetry.
 - Emergency response procedures.
 - ° Interactions with the ANPP emergency organization.
- 4.3.3 The PVNGS Training Manager may assist the Emergency Planning Department as necessary to conduct training.

4.4 Media Familiarization

4.4.1 Annually, in cooperation with state and county government, training shall be given to local and regional news media. なだか、「おいてもないなだな」を読みたたとなったと The program will include:

- PVNGS Emergency Plan and EPIPs.
- Basic information concerning PVNGS operation and radiation.
- Locations and means for release of public information in an emergency.
- Familiarization tour of the Joint Emergency News Center.



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TITLE: EMERGENCY PLAN TRAINING

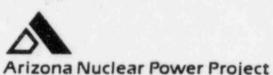
4.4.2 The ANPP Public Information Department, with the assistance of the Emergency Planning Department, shall conduct the news media familiarization.

4.5 Documentation

- On-shift, On-site and EOF Staff Emergency Response - 4.5.1 Personnel Training shall be documented in accordance with References 5.1.3 and 5.1.4. The PVNGS Training Department shall maintain these records.
 - 4.5.2 Off-site staff training shall be documented in accordance with Reference 5.1.6. The Manager, Emergency Planning shall maintain these records.
 - 4.5.3 Lesson plans shall be used for all classroom instruction (References 5.1.1, 5.1.2). All lesson plans shall be reviewed and updated annually or as required due to EPIP revision and documented by the reissuing of the lesson plans.
 - 4.5.4 Written examinations shall be administered, as required, with an established minimum passing score.
- 4.5.5 Lesson plans and examinations are not required for off-site agency training. Briefing forms and outline are an acceptable means of documentation.
- 5.0 REFERENCES
 - 5.1 Implementing References
 - 5.1.1 Procedure 8N718.01.00, Systematic Training Development
 - 5.1.2 PVNGS Procedure 80FR-02Z01, Training Program
 - 5.1.3 PVNGS Procedure 81AC-02201, PVNGS Training Records
 - 5.1.4 ANPP Procedure 8N718.09.00, ANPP Training Approval. Registration and Documentation.

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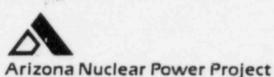
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TITLE: EMERGENCY PLAN TRAINING

- 5.1.5 PVNGS Procedure 83TR-0ZZ04, General Employee Training Pathway
- 5.1.6 ANPP Department Instruction 81718.04.01, Emergency Planning Off-site Training Program
- 5.2 Developmental References
- 5.2.1 Policy 8P718.00.00, Qualification, Training and Certification Policy
- 5.2.2 Code of Federal Regulations, Title 10, Chapter 1, Part 50.47 (10CFR50.47), "Emergency Plans"
 - 5.2.3 Code of Federal Regulations, Title 10, Chapter 1, Appendix E (10CFR50 Appendix E), "Emergency Planning and Preparedness for Production and Utilization Facilities"
 - 5.2.4 Regulatory Guide 3.42 "Emergency Planning in Fuel Cycle Facilities and Plants Licensed Under 10CFR Parts 50 and 70"
 - 5.2.5 NUREG-0654/FEMA-REP-1 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
 - 5.2.6 PVNGS Emergency Plan
 - 6.0 FORMS AND ATTACHMENTS
 - 6.1 Attachment 1, Emergency Plan Training Assigneme. t and Course Content
 - 6.2 Attachment 2, Corporate Emergency Response Personnel Emergency Plan Training Program
 - 6.3 Attachment 3, Joint Public Information Personnel Emergency Plan Training Program



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TITLE: EMERGENCY PLAN TRAINING

EMERGENCY PLAN TRAINING ASSIGNMENT AND COURSE CONTENT

The following initial training/retraining courses shall be provided to the designated emergency response personnel as listed.

Overview (NGE01/NGE09) Status Board Keeper/Clerical Aides DDC Dosimetry Clerk Computer Support

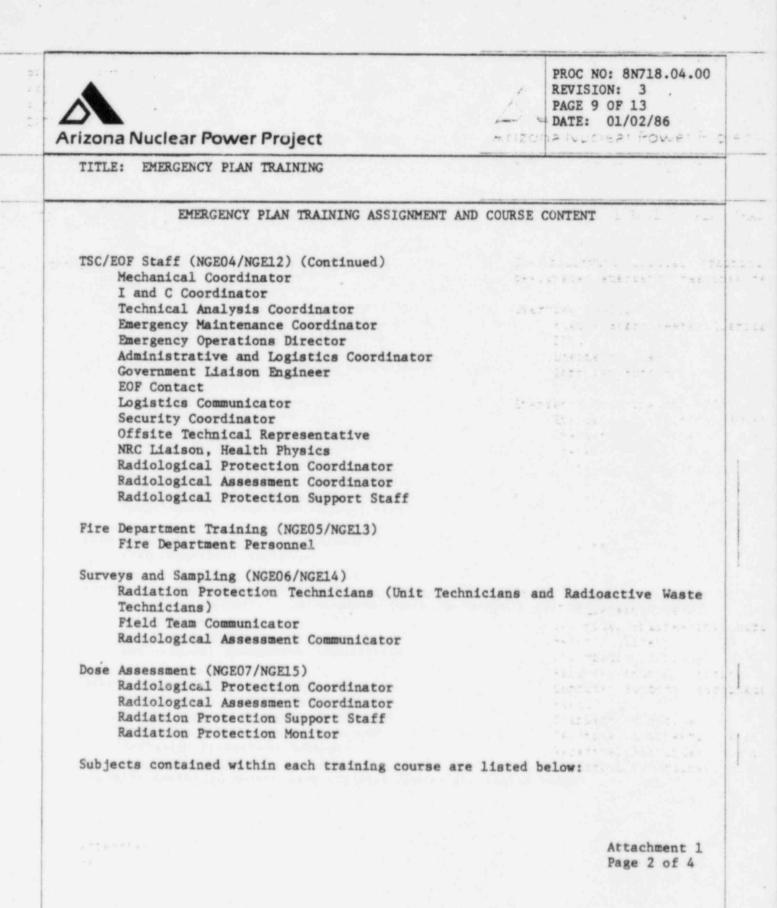
Emergency Coordinator (NGE02) Emergency Coordinator (On-Shift) Emergency Coordinator (On-Site) Operations Advisor Operations Coordinator

STSC/OSC Staff (NGE03/NGE11) STSC Communicator OSC Coordinator Repairs Coordinator Nurse

TSC/EOF Staff (NGE04/NGE12) NRC Liaison, Operations Technical Engineering Coordinator Security Director Information Monitor Hazards Control Coordinator Computer Support Coordinator Computer Support Coordinator/Staff Reactor Analyst Chemistry Coordinator Technical Engineering Assistant/STA Personnel Resources Coordinator Electrical Coordinator

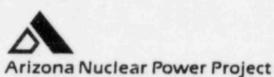
> Attachment 1 Page 1 of 4

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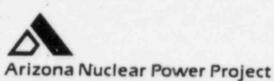
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TITLE: EMERGENCY PLAN TRAINING

EMERGENCY PLAN TRAINING ASSIGNMENT AND COURSE CONTENT

Overview NGEO1 - Overview for Support Staff NGE09 - Retraining for Support Staff Emergency Coordinator (Initial and Retraining) NGE02 - Overview for Emergency Coordinator STSC/TSC/EOF for Emergency Coordinators 「おけていた」とうであていたまであた。 1018 - 11 11618 - 11 Emergency Classifications Emergency Exposure Guidelines/KI Administration STSC/OSC Staff NGE03 - Overview for STSC/OSC Staff STSC Activation OSC Activation Search and Rescue Reentry Emergency Exposure Guidelines/KI Administration NGE11 - Retraining for STSC/OSC Staff TSC/EOF Staff NGE04 - Overview for TSC/EOF Staff TSC Activation EOF Activation Emergency Exposure Guidelines/KI Administration NGE12 - Retraining for TSC/EOF Staff ARTI LIVE AREFETSTIC CO Fire Department Training The research of the NGE05 - Overview for Fire Department Actuation and Responsibilities - NACELLA LA LA Processor NGE13 - Retraining for Fire Department Surveys and Sampling NGEO6 - Overview for STSC/OSC Staff OSC Activation STSC Activation Search and Rescue Emergency Exposure Guidelines/KI Administration Attachment 1

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TITLE: EMERGENCY PLAN TRAINING

EMERGENCY PLAN TRAINING ASSIGNMENT AND COURSE CONTENT

Surveys and Sampling (Continued) Surveys and Sampling Surveys and Sampling Practical NGE14 - Retraining for Surveys and Sampling

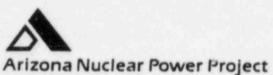
Dose Assessment

NGE07 Fundamentals of Dose Assessment Dose Assessment Procedure Practical Dose Assessment Computer Practical

NGE15 - Retraining for Dose Assessment

Attachment 1 Page 4 of 4

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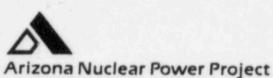
TITLE: EMERGENCY PLAN TRAINING

CORPORATE EMERGENCY RESPONSE PERSONNEL EMERGENCY PLAN TRAINING PROGRAM

The following initial training/retraining subjects shall be provided to all . Corporate Emergency Response person- nel:

- 1. Principles of nuclear reactors (not given to CEC technical staff, i.e., Corporate Technical Coordinator and Corporate Engineering Support Coordinator primaries, alternates and support staff).
- 2. Emergency classifications.
- 3. Emergency notification callout.
- 4. Emergency facilities: functions and interfaces.
- 5. Corporate Emergency Procedures overview.
- 6. CEC function and positions.
- 7. CEC notification, activation, and operatin.

Attachment 2



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TITLE: EMERGENCY PLAN TRAINING

JOINT PUBLIC INFORMATION PERSONNEL EMERGENCY PLAN TRAINING PROGRAM

The following initial training/retraining subjects shall be provided to all Public Information personnel:

- 1. Principles of nuclear reactors.
- 2. Principles of radiation.
- 3. Emergency classifications.
- 4. Emergency facilities and telecommunications.
- 5. Government agencies emergency response.
- 6. Flow of public information.

Attachment 3

EMERGENCY PLAN IMPLEMENTING PROCEDURE TRANSMITTAL CONTROLLED DOCUMENT

LIST I

DATE

EPTP NO

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EPIP NO	
A .	,
V. Elish	6-8
G. Fiorelli	8-1
R. Selman	5-37
Compliance	5-17
Leon Brown	5-33
J. G. Sarver	5-10
V. Rhodes	1-1
Thomas P. Hillmer	- 5-12
T. Exum	5-40
DDC Library	1-2
M. W. Lantz	1-2 5-35 5-91
Penny Egebrecht	5-91
Harry Bieling	17-9
Gerald Simiele	5-12
J. Cederquist	5-20
T. Shriver	5-8
T. Barsuk	5-86
D. Best	5-88
R. Johnson	5-42
Sec Cpt	15-1
Michael Deblo	5-41
EOF	17-1/
EOF	17-11
EOF	17-10
	17-11
EOF (Room 12) EOF	17-11
Unit 2 Rad Protection	17-11
onic 2 May Protection	5-95
Martha Roettger	5-114
Mike Crusa	17-4
W L OL L	
M.L. Clyde	: 5-79
Dennis Yows	5-36
Bill Knighton	15-2
Russ Papworth	
Bruce Rash	<u> </u>
Dan Phillips	
В	13-16
J. M. Allen	5-31
. Fernow	5-14
. Anderson	6-7
im Obs Rm	5-89
R. Dunaway	5-9
. Nelson	the second s
1. Whitaker	5-18
. Tench	5-38
. Perouthka	5-19 6-6
. R. Bynum	5-22
. Simmons	
. Hicks	6-10
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C C	
Unit Control Room	~-5-2B
Kris Oberdorf	5-6
Darrel Nissen	3-2
Unit 1 Radwaste	5-43
A. Porter	3-3
T. Warren	5-21
Startup Complex (Upstairs)	2-10A
D	
B. Rogers/TSC	5-94
TSC	3-5
Galon Olson	3-8
Steve Grove	3-4
Greg Roettger	Stational Support
Maintenance Manager	5-112
TSC E Plan Anal	3-11
John Kirby	35A
Unit 2 Control Room	2-4
	5-25
Bob Adney	5-93
D. Fasnacht	
	19-1
and the second	20-1
Jim Sty John	14-47,
Dan Canady	13-42
F	_
WRF/DDC	1-7
G	
Unit III Control Rm,	5-39
Unit III I&C	3-33
Unit III Radiation Protection	5-96
FOR NRC	
TAKE TO KARL GROSS ON R/A	
Jack Martin/Adm.	8-8
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Gail M. Temple	8-5
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Dennis Yow		5-36A thru 5-36I	1
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PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURE	NO. EPIP-02	· · · · · · · · · · · · · · · · · · ·
EMERGENCY CLASSIFICATION	REVISION 4	Page 1 of 27

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2. PROCEDURE NUMBER EPIP-03	
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to exceed 5 PCNs	
3. REASON FOR PCN: To update	Emergency Nothfustion Call List
to exceed 5 PCNs	
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PROCEDURE CHANGE NOTICE

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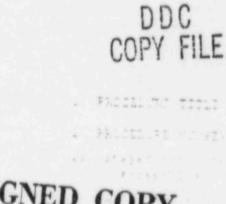
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PALO VERDE NUCLEAR GENERATING STATION

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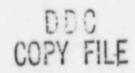
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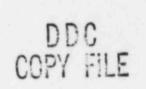
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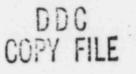


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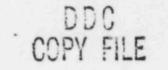
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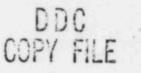
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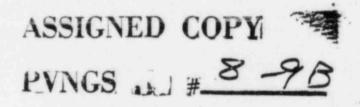
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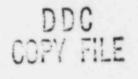
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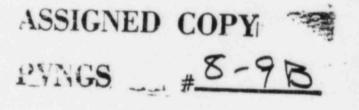
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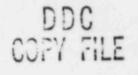
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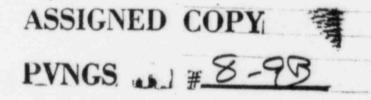
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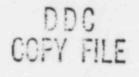
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