

Britt T. McKinney Vice President Operations

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WO 01-0060

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D. C. 20555

> Subject: Docket No. 50-482: Changes to Wolf Creek Generating Station (WCGS) Radiological Emergency Response Plan Implementing Procedures

Gentlemen:

In accordance with 10 CFR 50, Appendix E, enclosed are revisions to Wolf Creek Generating Station (WCGS) Radiological Emergency Response Plan implementing procedures and forms. The following is a list of the specific enclosures.

## PROCEDURES

Effective October 26, 2001

- EPP 06-002, Revision 6
- CORRECTED COPY

Effective November 1, 2001

EPP 06-012, Revision 5
 CORRECTED COPY

If you have any questions concerning this submittal, please contact me at (620) 364-4112, or Mr. Tony Harris at (620) 364-4038.

Very truly yours,

Britt T. McKinney

BTM/rlr

Enclosures

cc: J. N. Donohew (NRC), w/e G. M. Good (NRC), w/e W. D. Johnson (NRC), wo/e E. W. Merschoff (NRC), w/e (2) Senior Resident Inspector (NRC), wo/e CORRECTED COPY 10/26/2001



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## EPP 06-002

## TECHNICAL SUPPORT CENTER OPERATIONS

## Responsible Manager

## MANAGER RESOURCE PROTECTION

Revision Number	6
Use Category	Reference
Administrative Controls Procedure	No
Infrequently Performed Procedure	No
Program Number	06

DC2 08/21/2001

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### 1.0 PURPOSE

1.1 This procedure provides guidelines for the activation of the Technical Support Center (TSC), and the responsibilities and guidance for Emergency Response Organization (ERO) personnel assigned to the TSC.

### 2.0 <u>SCOPE</u>

- 2.1 This procedure is implemented following the declaration of an Alert or higher emergency classification. The Shift Manager may request the Site Emergency Manager to activate the TSC during a Notification of Unusual Event.
- 2.2 This procedure provides direction for positions assigned to the Operations Support Center (OSC) also. Since the OSC is housed in the TSC, for the purpose of this procedure the OSC is part of the TSC.

### 3.0 REFERENCES AND COMMITMENTS

### 3.1 References

- 3.1.1 Code of Federal Regulations 10 CFR 20
- 3.1.2 RADIOLOGICAL EMERGENCY TELEPHONE DIRECTORY (RETD)
- 3.1.3 RADIOLOGICAL EMERGENCY RESPONSE PLAN (RERP)
- 3.1.4 PIR 2000-3534, TSC Diesel Generator failed to satisfy the requirements of STN KAT-001.

## 3.2 Commitments

- 3.2.1 Deleted
- 3.2.2 RCMS 91-142, Failure to Establish and Maintain Habitability in the Emergency Response Facilities
- 3.2.3 RCMS 92-188, Timely Notification of an Emergency and Timely Activation of the TSC and OSC
- 3.2.4 RCMS 97-067, Maintain Priority Board Information Up-To-Date
- 3.2.5 RCMS 97-066, DED To Inform Personnel Of Information Needed To Escalate Classification

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### 4.0 DEFINITIONS

## 4.1 Callout

- 4.1.1 The methodology which is implemented to provide proper staffing of the ERO.
- 4.2 Emergency Action Levels (EALs)
  - 4.2.1 Specific parameters or conditions that may be used as thresholds for declaring a particular emergency classification.

## 4.3 Emergency Classification

- 4.3.1 A system used to define the severity of emergencies into one of four categories based upon projected or confirmed emergency action levels. Classifications listed in order of increasing severity are as follows:
  - o Notification of Unusual Event
  - o Alert
  - o Site Area Emergency
  - o General Emergency

## 4.4 Emergency Conditions

4.4.1 Situations occurring which cause or may threaten to cause radiological hazards affecting the health and safety of employees or the public, or which may result in damage to property.

## 4.5 Facility Activation

- 4.5.1 A facility is considered activated when the designated positions are present, the Emergency Manager determines the facility is ready to activate, and declares the facility activated.
- 4.6 Habitability
  - 4.6.1 Habitable Radiological / environmental conditions within the facility are not challenged. There are no stay time restrictions for environmental or radiological circumstances.
  - 4.6.2 Degraded Conditions within the facility do not meet normal facility conditions. This could be due to radiological, environmental, or equipment conditions which may cause some type of hardship for personnel working in the facility.

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### 4.7 Operations Support Center (OSC)

4.7.1 A staging area located in the TSC for emergency teams to support the emergency response effort.

### 4.8 Records

4.8.1 Documents such as calculation worksheets, computer printouts, forms, logs, memos, checklists, or any paper used to record data or information during an emergency, drill or exercise which may be used for event reconstruction.

### 4.9 Technical Support Center (TSC)

4.9.1 The TSC serves as a center outside of the Control Room that acts in support of the command-and-control function and houses the OSC organization. Plant status and diagnostic information are available at this location for use by technical and management personnel in support of control room command-and-control functions.

## 5.0 RESPONSIBILITIES

- 5.1 Site Emergency Manager
  - 5.1.1 Coordinate and direct on-site emergency response.
  - 5.1.2 Classify/terminate the emergency in accordance with the Emergency Action Levels (EALs).
  - 5.1.3 Approve radiation exposure greater than the limits of 10CFR20 for on-site ERO personnel.
  - 5.1.4 Establish priorities for accident mitigation and emergency repair.
  - 5.1.5 Declare the TSC activated and establish priorities for TSC personnel.
  - 5.1.6 Approve Emergency Notifications and Protective Action Recommendations until the EOF is activated.
- 5.2 TSC Operations Coordinator
  - 5.2.1 Coordinate overall emergency response activities with the Control Room staff.
- 5.3 TSC Administrative Coordinator
  - 5.3.1 Provide support for TSC personnel as needed and direction for the TSC Administrative Assistants.

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### 5.4 TSC Radiological Coordinator

5.4.1 Provide direction for radiological conditions associated with activities controlled by the TSC.

## 5.5 TSC Facility Technician

5.5.1 Perform radiological duties in the TSC as directed.

## 5.6 Maintenance Coordinator

5.6.1 Determine the need for and appoint members to Emergency Response Teams.

### 5.7 Engineering Coordinator

5.7.1 Directs the assessment and evaluation tasks of the Engineering Team.

### 6.0 PRECAUTIONS/LIMITATIONS

- 6.1 The assigned Site Emergency Manager will assume command-andcontrol functions and will be the top line manager responsible for the emergency until the EOF is activated. TSC activation will be performed as soon as practical and within the times as stated in the following: [Commitment Step 3.2.3]
  - 6.1.1 During off-normal working hours, it is the goal to activate the TSC within 75 minutes of a declaration of an Alert or higher classification.
  - 6.1.2 During normal working hours, it is the goal to activate the TSC within 30 minutes of a declaration of an Alert or higher classification.
- 6.2 Personnel entering the TSC may be required to perform a whole body frisk at a designated frisking station.
- 6.3 Teams dispatched from on-site locations may not require an HP Technician as part of the team. However, approval must be obtained from the TSC Radiological Coordinator prior to leaving for the initial and each additional destination.
- 6.4 Facility evacuation should be considered if there is an actual or projected dose greater than or equal to 5 REM TEDE, unless the Site Emergency Manager authorizes exposures up to 25 REM.
- 6.5 Personnel in the TSC may be directed to relocate to another suitable location in the event emergency conditions preclude activation or warrant evacuation of the TSC.
- 6.6 Emergency Response Data System (ERDS) must be activated within 60 minutes of a declaration of an Alert or higher emergency.

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7.0	PROCEDURE		
7.1	Facility	Activation	
	7.1.1	Upon notification of an Alert or highe: the discretion of the Shift Manager du assigned ERO team members report to and operations as follows:	ring an NUE,
		1. Insert ACAD badge into TSC card rea accountability.	ader for
		2. Obtain the position name tag for the position from the TSC or OSC Staff.	
		3. Print name and ACAD badge number of Board where the position badge was	
		4. Proceed to assigned work station as position functions as directed by	
	7.1.2	Personnel should log/record significant response information.	t emergency
	7.1.3	The TSC may be activated when the foll- are present and the Site Emergency Man the facility is ready to activate:	
		o Site Emergency Manager	
		o TSC Operations Coordinator	
		o TSC Administrative Coordinator	
		o TSC Radiological Coordinator	
		o Maintenance Coordinator	
	7.1.4	$\frac{\text{WHEN}}{\text{THEN}} \text{ TSC equipment problems or failure} \\ \frac{\overline{\text{THEN}}}{\text{THEN}} \text{ these problems or failures should} \\ \frac{1}{\text{TSC}} \text{ Administrative Coordinator.}$	
	7.1.6	IF the TSC personnel are required to r refer to ATTACHMENT B, OSC RELOCATION SUPPLIES/EQUIPMENT, for a list of supp considered for transport to the reloca	lies to be
7.2	Facility	Deactivation	
	7.2.1	The Site Emergency Manager should info the TSC to deactivate.	rm personnel in

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Reference Use       Page 7 of 29         7.2.2       Each TSC position holder should transmit logs and any other documentation generated during the emergency to the TSC Administrative Coordinator.         7.2.3       The TSC Administrative Coordinator should transmit all documentation collected to Emergency Planning.         7.2.4       Each TSC position holder should evaluate the condition of equipment and supplies.         7.2.5       Each TSC position holder should return equipment and supplies to pre-activation status.         7.2.6       Each TSC position holder should report any deficiencie in facility equipment or supplies to the TSC Administrative Coordinator.         7.2.7       The TSC Administrative Coordinator should notify Emergency Planning of any damaged or missing facility equipment.         7.3       Site Emergency Manager         7.3.1       Obtain a turnover briefing from the Shift Manager. EFF 06-002-01, EMERGENCY MANAGERS TUNNOVER SHEET, may be used as an aid for this turnover.         7.3.2       Ensure the following positions have been filled and ar ready for TSC activation: [Commitment Step 3.2.3]         0       TSC Operations Coordinator         0       TSC Administrative Coordinator         0       TSC Administrative Coordinator	Revisi	on: 6	TECHNICAL SUPPORT CENTER OPERATIONS	EPP 06-002	
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ready for TSC activation: [Commitment Step 3.2.3] o TSC Operations Coordinator o TSC Administrative Coordinator o TSC Radiological Coordinator		EPF 06-002-01, EMERGENCY MANAGERS TURN			
<ul><li>o TSC Administrative Coordinator</li><li>o TSC Radiological Coordinator</li></ul>		7.3.2			
o TSC Radiological Coordinator			o TSC Operations Coordinator		
-			o TSC Administrative Coordinator		
o Maintenance Coordinator			o TSC Radiological Coordinator		
			o Maintenance Coordinator		

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## CAUTIONS

The following responsibilities are those of the Emergency Managers and may <u>NOT</u> be delegated. These responsibilities may be divided between the Site and Off-site Emergency Managers:

- o Emergency Classification
- o Protective action recommendations
- o Authorization for notification of off-site authorities
- o Authorization of Emergency Exposures on-site in excess of 10CFR20 Limits
  - 7.3.3 Assume command-and-control of site emergency response activities from the Shift Manager.
    - 1. <u>IF</u> the EOF is not activated, <u>THEN</u> assume the Notification and Protective Action Recommendations duties until the EOF is activated.
    - 2. Inform the staff in the TSC you have assumed command-and-control and that the TSC is declared activated.
    - 3. Direct the TSC Administrative Coordinator to make a plant announcement that the TSC is activated and the name of the Site Emergency Manager.
  - 7.3.4 Conduct initial and periodic briefings for the TSC staff focusing upon the highest priority items and key parameters which are likely to lead to an escalated emergency classification. [Commitment Step 3.2.5]
  - 7.3.5 Assess plant conditions and evaluate the need to reclassify the emergency in accordance with EPP 06-005, EMERGENCY CLASSIFICATION.
    - 1. Direct the Control Room to make appropriate plant announcements for changing classifications.
    - 2. Direct the Control Room to initiate callout as necessary for the declared emergency.
  - 7.3.6 Coordinate with the TSC Radiological Coordinator on the need to authorize exposure limits in excess of 10CFR20 limits, with NRC concurrence if practical, and the need to recommend ingestion of potassium iodide (KI).
  - 7.3.7 Evaluate and authorize radiation exposure levels for site personnel.

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		1. Approve exposures exceeding 2 REM	(TEDE).
		2. Approve exposures in excess of 10	CFR 20 limits.
	7.3.8	Ensure the Shift Manager is updated wi and decisions as they happen.	th status change
	7.3.9	Coordinate shift relief for Control Ro personnel with the EOF.	om and TSC
	7.3.10	IF downgrading or terminating an emerg perform in accordance with EPP 06-008, OPERATIONS.	
7.4	TSC Ope	rations Coordinator	
7.4.1		Ensure the normal power supply to the <u>IF</u> unavailable, <u>THEN</u> ensure the Diesel started in accordance with ATTACHMENT OPERATIONS.	Generator is
	7.4.2	Ensure the facility clock is synchroni Control Room clock.	zed with the
	7.4.3	Post the appropriate Emergency Classif	ication sign.
	7.4.4	Inform the Site Emergency Manager of r activation.	eadiness for TS
	7.4.5	Coordinate overall emergency response the Control Room staff.	activities with
	7.4.6	Ensure HEPA Filtration and the Iodine placed in service in accordance with A FILTRATION AND IODINE MONITORING START or higher emergency has been declared.	TTACHMENT A, HE UP, when an Ale
		NOTE	
		esponse Data System (ERDS) must be activ the declaration of an Alert or higher em	
	7.4.7	Ensure the Emergency Response Data Sys been activated.	tem (ERDS) has
		<ol> <li>Instructions for initiating ERDS a contained in ATTACHMENT D, EMERGEN SYSTEM (ERDS) OPERATIONS.</li> </ol>	
	7.4.8	Monitor plant conditions for changes w the emergency classification and notif	

Emergency Manager of the conditions.

based Site E Coordi7.5TSC Administrat7.5.1Ensure notifi7.5.2Notify activa7.5.3Ensure mainta7.5.4Ensure is act assume7.5.5Ensure perfor NOTIFI7.5.6Ensure is not o ro NT7.5.7Make a Site E7.5.9Ensure plant secure7.5.10IF a S THEN c	ive Coordinator the Control Room is contacted f cations. the Site Emergency Manager of r tion. TSC accountability is being per	aluation with the gical or status of eadiness for TSC
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is not o Fo NF 7.5.7 Make a 7.5.8 Ensure Site E 7.5.9 Ensure plant Securi 7.5.10 <u>IF</u> a S THEN o	Immediate and Follow-up Notific med in accordance with EPP 06-00 CATIONS.	ations are 7, EMERGENCY
NF 7.5.7 Make a 7.5.8 Ensure Site F 7.5.9 Ensure plant Securi 7.5.10 <u>IF</u> a S THEN o	initial TSC staffing is adequat adequate, <u>THEN</u> call out additio	
7.5.8 Ensure Site E 7.5.9 Ensure plant Securi 7.5.10 <u>IF</u> a S THEN C	r off-hours activation use the A ECs report to evaluate staffing.	
Site E 7.5.9 Ensure plant Securi 7.5.10 <u>IF</u> a S THEN C	rrangements for shift relief and	l meals.
plant Securi 7.5.10 <u>IF</u> a S THEN c	the TSC Administrative Assistan mergency Manager's updates and e	
THEN C	the Security Shift Lieutenant i and radiological conditions that ty operations.	
	ite Area or General Emergency ha etermine from the Security Shift of an Exclusion Area Boundary e	: Lieutenant the
7.6 <u>TSC Radiologica</u>	l Coordinator	
	current radiological status and Recommendations made.	d Protective
7.6.3 Ensure	the TSC Facility Technician and e a team are available. [Commit	established.

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7.6.4	Notify the Site Emergency Manager of refacility activation.	eadiness for
7.6.5	Ensure dosimetry devices are placed in issued to personnel as appropriate in EPP 06-013, EXPOSURE CONTROL AND PERSO	accordance with
7.6.6	Ensure the Site Emergency Manager is b radiological status for the developmen Action Recommendations.	
7.6.7	Initiate surveys in accordance with EP EMERGENCY TEAM FORMATION AND CONTROL.	P 06-011,
7.6.8	IF access is denied through the main e TSC, THEN advise the TSC Administrativ ensure the airlock door is closed and rear entrance of the TSC to maintain a	e Assistant to to move to the
7.6.9	Provide the Site Emergency Manager wit of the conditions potentially requirin exposure in excess of 10 CFR 20 limits	g personnel
	o <u>IF</u> time permits, <u>THEN</u> initiate EPF EMERGENCY EXPOSURE AUTHORIZATION.	06-013-01,
7.6.10	For actual or projected doses perform	the following:
	<ol> <li>IF an actual or projected dose in REM TEDE, THEN inform the Site Eme the need to evacuate the facility. Step 3.2.2]</li> </ol>	rgency Manager o
	2. <u>IF</u> projected thyroid dose is great to 25 REM, <u>THEN</u> recommend the inge accordance with EPP 06-013, EXPOSU PERSONNEL PROTECTION.	stion of KI in
7.6.11	Ensure Emergency Response Teams are in changing plant conditions, emergency c and protective action recommendations the team's ability to complete assigne	lassifications which may affect
7.6.12	Complete the following information on PLANT TEAM BRIEFING CHECKLIST, and tra the TSC Team Director.	EPF 06-011-01, Insfer the form t
	o Plant Status	
	o Radiological Conditions	

7.6.13 IF off-site medical assistance is needed, THEN ensure Health Physics support requirements are met.

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	7.6.14		ist in personnel evacuation by perfolowing:	orming the
		1.	Dispatch an HP Technician to the S to establish radiological control personnel monitoring, if required.	and conduct
		2.	Inform Security Shift Lieutenant o radiological plant data and direct for dissemination to evacuating pe	ion of the plume
7.7	TSC Fac	ility	Technician	
	7.7.1	Est	ablish and maintain facility habita	bility.
		1.	<u>IF</u> readings greater than 100 cpm a on the general area frisker or gre background on the General Atomics are noted, <u>THEN</u> an air sample will accordance with RPP 02-210, RADIAT METHODS.	ater than iodine monitor be taken in
		2.	IF the General Atomics iodine moni inoperable during HEPA filter oper initiate portable iodine sampling in accordance with RPP 02-210, RAD METHODS.	ation, <u>THEN</u> at least hourly
		3.	Ensure all AIR LOCK DOORS are clos Step 3.2.2]	ed. [Commitment
		4.	Position a frisker in the facility monitoring. IF the frisker alarms air sample of the TSC.	for habitabilit , <u>THEN</u> take an
			o Lead bricks are available for s	hielding.
		5.	Record the Iodine Monitor cpm read Facility Technician log.	ling in the
		6.	Record the Area Radiation Monitor the Facility Technician log.	mR/hr reading in
			o <u>IF</u> the area radiation monitor e <u>THEN</u> notify the TSC Radiologica	
		7.	IF a release is in progress OR as place a frisker at the facility en personnel monitoring.	
	7.7.2		form the TSC Radiological Coordinato	or of all facili

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7.7.3	Check the Ventilation Iodine Monitor he operation.	ourly for proper		
	o <u>IF</u> inoperable, <u>THEN</u> initiate porta sampling at least hourly.	ble iodine		
7.7.4	Identify and label inoperable equipment.			
7.7.5	Ensure 10 sets of 0-500 mR and 0-5 R dosimeters ar functional and ready for use.			
7.7.6	Determine dose margin and respirator q personnel assigned to Emergency Respon			
7.7.7	Ensure the logging in and analysis of radiological samples.	all incoming		
7.7.8	Review and document dosimetry results response activities in accordance with EXPOSURE CONTROL AND PERSONNEL PROTECT	EPP 06-013,		
7.7.9	Discuss the decontamination of on-site the TSC Radiological Coordinator.	personnel with		
	1. Perform decontamination in accorda RPP 02-310, PERSONNEL DECONTAMINAT			
	2. Collect all RPP forms associated w decontamination activity.	ith the		
7.8 <u>Mainte</u>	nance Coordinator			
7.8.1	Verify personnel are present and ready Emergency Response Team tasks. [Commi			
7.8.2	Provide the Site Emergency Manager wit of pre-emergency maintenance activitie			
7.8.3	Coordinate with the Site Emergency Man what information to list on the Priori maintain the board up-to-date. [Commi	ty Board and		
7.8.4	Obtain the status of and evaluate team the Control Room from the TSC Operatic			
7.8.5	Direct the Maintenance Planners to dev plan for equipment repair.	velop a repair		
7.8.6	Determine the scope of Emergency Respo activities to be performed.	onse Team		
7.8.7	Initiate EPF 06-011-01, PLANT TEAM BRI and coordinate with Maintenance Assist assignment.			

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7.8.8 Advise the Site Emergency Manager of Emergency Response Team status.

## 7.9 Engineering Coordinator

- 7.9.1 Coordinate and direct the efforts of the Engineering Team to technically assess plant status and the severity of the emergency conditions.
- 7.9.2 Direct accident assessment and mitigation activities to be performed in accordance with EPP 06-016, ACCIDENT ASSESSMENT AND MITIGATION.
- 7.9.3 Advise the TSC Operations Coordinator on technical matters relating to fuel integrity, plant systems, equipment, and instrumentation.
- 7.9.4 Support maintenance items assigned to Emergency Response Teams.
- 7.10 TSC Operations Recorder
  - 7.10.1 Ensure NPIS is operable by verifying time and date in the upper right-hand corner are updating.

### NOTES

- o The Operations Status Board has a goal of being updated at 15 minute intervals.
  - 7.10.2 Maintain the Operations Status Board current by using NPIS Turn-On-Codes SB1 and SB2 <u>OR</u> with data obtained from the Operations Communicator on EPF 06-002-02, OPERATIONS STATUS.
    - 1. Maintain a hard-copy of the NPIS printouts or completed EPF 06-002-02, OPERATIONS STATUS.
  - 7.10.3 Monitor plant status for adverse trends and inform the TSC Operations Coordinator of changes in plant status which could affect the emergency classification.
  - 7.10.4 Track procedure progress, list the procedure being performed by the Control Room.
  - 7.10.5 <u>WHEN</u> transitions are made to the next procedure, <u>THEN</u> notify the TSC Operations Coordinator.
  - 7.10.6 Communicate information, concerning emergency teams dispatched from the Control Room, directly to the TSC Maintenance Coordinator.
- 7.11 TSC Administrative Assistant

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7.11.1	for	ure the operability of phones and r County and State notifications. Co io check with Coffey County and the	onduct an initia	
7.11.2		Ensure the verification phone is plugged in and operable.		
7.11.3		ntain TSC accountability by perform lowing:	ing the	
	1.	Maintain EPF 06-010-01, ACCOUNTABI ensure personnel entering or leavi the card reader for tracking all p assigned to an Emergency Response	ng the TSC use ersons not	
	2.	Ensure personnel entering and exit the airlock door. [Commitment Step		
	3.	WHEN informed that access is being main entrance of the TSC, THEN ens door is closed and relocate to the entrance to maintain accountabilit	ure the airlock designated	
7.11.4		vide assistance to the Site Emergen forming the following:	cy Manager by	
	1.	Maintain a log book		
	2.	Maintain the TSC Sequence of Event Action Recommendation Board	s and Protective	
	3.	Answer the phone as needed		
	4.	Complete EPF 06-002-03, SEQUENCE O	F EVENTS	
7.11.5		vide faxing and copying support by lowing:	performing the	
	1.	Provide copies of EPF 06-007-01, W GENERATING STATION EMERGENCY NOTIF TSC Emergency Notification System Communicator and Onsite Public Inf Coordinator.	ICATION, to the (ENS)	
	2.	Provide copies of Radiological and Status Boards information to the C Information Coordinator.		
	3.	Ensure copies of all EPF 06-007-01 GENERATING STATION EMERGENCY NOTIF EPF 06-002-03, SEQUENCE OF EVENTS, the EOF	ICATION, and	

the EOF.

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7.11.6	Provide Off-site communications by performing the following:	
	<ol> <li>Contact the Control Room Off-site Communicator verify the status of notifications.</li> </ol>	to
	2. Verify that all information has been completed Notification forms prior to transmitting.	l on
	3. Perform Emergency Notifications in accordance EPP 06-007, EMERGENCY NOTIFICATIONS.	with
	4. Conduct calls for off-site support as directed the TSC Administrative Coordinator.	l by
	a. Unless the call for off-site support is to obtain assistance for a life threatening situation, do not interrupt the Immediate Notifications. Such calls shall be made coincidentally with Immediate Notifications	5.
	b. Calls for immediate off-site support take precedence over Follow-up Notifications.	
7.12 <u>TSC Tea</u>	m Director	
7.12.1	Assume control of all teams dispatched from the Co Room except on-shift Nuclear Station Operators.	ontro
7.12.1		er
7.12.1	Room except on-shift Nuclear Station Operators. 1. On-shift Nuclear Station Operators remain under Control Room control and are not assigned a te	er
	<ul> <li>Room except on-shift Nuclear Station Operators.</li> <li>1. On-shift Nuclear Station Operators remain under Control Room control and are not assigned a ter identifier.</li> <li>Assign each Emergency Response Team with a team identifier.</li> </ul>	er eam
7.12.2	<ul><li>Room except on-shift Nuclear Station Operators.</li><li>1. On-shift Nuclear Station Operators remain under Control Room control and are not assigned a ter identifier.</li><li>Assign each Emergency Response Team with a team identifier.</li><li>Inform the TSC Team Communicator of the formation Emergency Response Teams.</li></ul>	er eam of
7.12.2 7.12.3	<ul> <li>Room except on-shift Nuclear Station Operators.</li> <li>1. On-shift Nuclear Station Operators remain under Control Room control and are not assigned a ter identifier.</li> <li>Assign each Emergency Response Team with a team identifier.</li> <li>Inform the TSC Team Communicator of the formation Emergency Response Teams.</li> <li>Evaluate the need for Health Physics support for a</li> </ul>	er eam of all
7.12.2 7.12.3	<ul> <li>Room except on-shift Nuclear Station Operators.</li> <li>1. On-shift Nuclear Station Operators remain under Control Room control and are not assigned a ter identifier.</li> <li>Assign each Emergency Response Team with a team identifier.</li> <li>Inform the TSC Team Communicator of the formation Emergency Response Teams.</li> <li>Evaluate the need for Health Physics support for a dispatched teams.</li> <li>1. Health Physics Technicians will provide the necessary radiological guidance for the task was a station of tables.</li> </ul>	of all which

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		<ol> <li>Consider areas to evacuate to, stapossible hazards the team may encorperforming their task.</li> </ol>	
7.13	TSC Team	n Communicators	
	7.13.1	Ensure that the radio is turned on and correct channel.	selected to the
	7.13.2	Establish and maintain communications Emergency Response Teams.	with site
	7.13.3	Verify team identification and members Emergency Response Teams establish rad communications.	
	7.13.4	Inform the teams of changes to plant s emergency classifications.	tatus and
	7.13.5	Ensure all pertinent directions to the TSC Team Director are logged.	teams from the
7.14	TSC Emer	rgency Notification System (ENS) Communi	cator
	7.14.1	Inform the TSC Operations Coordinator communications are ready to be establi	
	7.14.2	Establish and maintain continuous comm the NRC via the ENS Emergency Telecomm (ETS) telephone. <u>IF</u> the NRC determine communications or contact with all fac necessary, <u>THEN</u> communications may be directed by the NRC.	unications Syste s that continuou ilities is not
		<ol> <li>Use of the ETS phone is in accorda EPP 06-007, EMERGENCY NOTIFICATION</li> </ol>	

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	7.14.3	Provide the following information to the NRC:
		o Any further degradation in the level of safety of the plant or other worsening plant conditions
		o The results of ensuing evaluations or assessments of plant conditions
		o The effectiveness of response or protective measures taken
		o Any information related to plant behavior that is not understood
7.15	Engineer	ing Team
	7.15.1	The Engineering Team should monitor NPIS primary plant display for adverse trends.
	7.15.2	The Engineering Team should assist with trouble- shooting and restoration of equipment.
	7.15.3	The Engineering Team should monitor on-site and off- site electric distribution and sources.
	7.15.4	The Engineering Team should assess plant status and the severity of the emergency conditions in accordance with EPP 06-016, ACCIDENT ASSESSMENT AND MITIGATION.
	7.15.5	Nuclear Engineer should assess the degree of fuel damage in accordance with EPP 06-017, CORE DAMAGE ASSESSMENT METHODOLOGY.
7.16	Emergenc	y Response Team
	7.16.1	Sign your name and position on the Task Board.
	7.16.2	Obtain Protective clothing and stage in bag for readiness.
	7.16.3	Obtain most recent dose update and respirator qualifications.
	7.16.4	Perform operability checks on equipment and instruments before leaving the TSC.
	7.16.5	WHEN Chemistry Technicians perform chemical sampling, $\frac{\text{THEN}}{\text{THEN}}$ provide analysis results to the TSC Radiological Coordinator.

7.16.6 Immediately report major anomalies encountered in the plant to the TSC Team Communicator.

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- 7.16.7 Upon return to the TSC, report any anomalies to the TSC Team Director.
- 7.16.8 Track Emergency Response Team exposure in accordance with EPP 06-013, EXPOSURE CONTROL AND PERSONNEL PROTECTION.
- 7.16.9 Team formation and control is in accordance with EPP 06-011, EMERGENCY RESPONSE TEAM FORMATION AND CONTROL.

## 7.17 Maintenance Assistant

- 7.17.1 Assign personnel to Emergency Response Teams for equipment repair, surveys, or search and rescue.
- 7.17.2 Coordinate with the TSC Team Director and brief Emergency Response Teams on team objectives.
  - 1. Complete EPF 06-011-01, PLANT TEAM BRIEFING CHECKLIST.
- 7.17.3 <u>IF</u> the team has a search and rescue mission, <u>THEN</u> include the following information in the briefing:
  - o Number and last known location(s) of missing
    individual(s)
  - Possible physical condition of missing individual(s)
- 7.17.4 Brief the Maintenance Coordinator on the status of Emergency Response Teams.
- 7.17.5 Consider the necessity of conducting additional briefings of teams dispatched to additional locations once the team has left the TSC.
- 7.17.6 Debrief Emergency Response Teams in accordance with EPP 06-011, EMERGENCY TEAM FORMATION AND CONTROL.

### 7.18 Maintenance Planner

- 7.18.1 Assist in the briefing of Emergency Response Teams and provide maintenance support as appropriate to the Maintenance Coordinator.
- 7.18.2 Develop repair plans for equipment repairs as directed.

### 7.19 Warehouse Support

7.19.1 Locate and secure parts and equipment from the warehouse as directed.

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### 7.20 Security Coordinator

- 7.20.1 Ensure the safety of Security personnel is maintained by coordinating Security activities with activities of the TSC.
- 7.20.2 Provide coordination of activities including, but not limited to the following:
  - o Emergency vehicle arrival
  - o Search and rescue outside the PAB
  - o Access to vital areas
  - o EMT support
  - o Activities concerning Security

## 8.0 INITIAL ACTIONS

8.1 None

### 9.0 SUBSEQUENT ACTIONS

9.1 None

## 10.0 RECORDS

- 10.1 Records generated by this procedure during an actual emergency are considered lifetime QA records and shall be forwarded to Emergency Planning at the termination of the emergency.
- 10.2 Records generated by this procedure during drills or exercises are considered non-QA records and shall be forwarded to Emergency Planning at the termination of the drill or exercise.

## 11.0 FORMS

- 11.1 EPF 06-002-01, EMERGENCY MANAGER TURNOVER SHEET
- 11.2 EPF 06-002-02, OPERATIONS STATUS
- 11.3 EPF 06-002-03, SEQUENCE OF EVENTS

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## ATTACHMENT A (Page 1 of 2)

HEPA FILTRATION AND IODINE MONITORING OPERATIONS

## NOTES

- o The HEPA filtration startup panels are located in the northwest corner of the TSC Equipment Room.
- o The air handling heater switch is located on top of the HEPA unit directly in front of the Iodine Monitoring Control Panel.

### A.1 HEPA FILTRATION STARTUP INSTRUCTIONS

- A.1.1 On Panel PB-1, Toggle the FILTER/NORMAL switch to FILTER.
  - Verify dampers D-1 and D-2 closed status lights indicate CLOSED.
  - 2. Verify damper D-3 open status light indicates OPEN.
  - 3. IF dampers D-1 and D-2 fail to close or D-3 fails to open, THEN use manual damper controls located in the ductwork to position the dampers. Damper D-1 is located in Janitor Supply Room. Dampers D-2 and D-3 are located in the TSC Equipment Room in the overhead above the Iodine Monitor.
- A.1.2 On Disconnect Box next to Panel PB-1, turn HEPA filtration FAN SWITCH to HAND position to start fan.
- A.1.3 Turn air handling heater to ON.

### A.2 IODINE MONITORING STARTUP INSTRUCTIONS

- A.2.1 Ensure "PWR ON" indicator is lit.
- A.2.2 Close Purge valve.
- A.2.3 Verify inlet valve is throttled open.
- A.2.4 Press and hold START button.
  - 1. Verify green "ON" light comes on.
  - 2. IF vacuum is not between 3" and 10" Hg on the vacuum gauge, THEN adjust the inlet valve to obtain between 3" to 10" Hg on the vacuum gauge.

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		ATTACHMENT A
	нгг	(Page 2 of 2) A FILTRATION AND IODINE MONITORING OPERATIONS
		A FIDINGION AND TODING HONITONING OFFICITIONS
		3. WHEN vacuum is between 3" to 10" Hg on the gauge, $\overline{\text{THEN}}$ release the "START" button.
	A.2.5	Verify LIMIT light is extinguished.
	A.2.6	Verify air flow is between 1.8 and 2.2 cfm.
A.3	HEPA FI	LTRATION SHUTDOWN INSTRUCTIONS
	A.3.1	Turn air handling heater to OFF.
	A.3.2	On Disconnect Box next to Panel PB-1, turn HEPA filtration FAN SWITCH to OFF position to secure fan.
	A.3.3	On Panel PB-1, Toggle the FILTER/NORMAL switch to NORMAL.
		<ol> <li>Verify dampers D-1 and D-2 status lights indicate OPEN.</li> </ol>
		2. Verify damper D-3 status light indicates CLOSED.
		3. <u>IF</u> damper D-1 fails to open, <u>THEN</u> ensure exhaust fan EXF-1 located in Janitor Supply Room is running.
		4. <u>IF</u> damper D-2 fails to open or damper D-3 fails to close, <u>THEN</u> use manual damper controls located in the ductwork to position the dampers. Dampers D-2 and D-3 are located in the TSC Equipment Room in the overhead above the Iodine Monitor.
A.4	IODINE	MONITORING SHUTDOWN INSTRUCTIONS
	A.4.1	Secure the monitor by pushing and releasing the STOP button.
		- END -

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	ATTACHMENT B			
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	OSC RELOCATION SUPPLIES AND EQUIPMENT			
B.1	Air Samplers, Friskers, and Survey Meters for Portable Survey Instruments			
ъ û	TIDE (DD (DIGe) Jeans Lorg and Desimpton Changens for			
В.2	TLDs, SRD (PICs), Issue Logs, and Dosimeter Chargers for Personnel Dosimetry			
в.3	Emergency Procedures/Forms			
в.4	Protective Clothing and Tape			
в.5	Decontamination Kit			
в.6	First Aid and Medical Response Kits			
в.7	Communication Equipment			
в.8	Step Off Pads, Radiation Signal Ropes and Signs for Radiation Control Area Supplies			
в.9	SCBA and Full Face (spare cartridges) Respiratory Protection			
в.10	Zeolite Cartridges, Smears, and A/S Filters for Health Physics Survey Supplies			
B.11	KI Tablets			
B.12	Office Supplies, Flashlights, and Batteries			

- END -

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## ATTACHMENT C (Page 1 of 3) TSC DIESEL OPERATIONS

- C.1 <u>IF</u> the normal power supply to the TSC is not available, <u>THEN</u> ensure the TSC diesel generator is started as follows:
  - C.1.1 Ensure EMERG GENERATOR INTAKE DAMPER D6 is OPEN <u>OR</u> that the damper actuator arm is loosened allow the damper to fall open.

### NOTES

- o To prevent permanent cranking motor damage, do not crank the diesel for more than thirty seconds continuously. If the diesel does not start within the first thirty seconds, wait one to two minutes before re-cranking.
- o Frequency requirements apply only during steady-state conditions with the diesel under a constant load.
  - C.1.2 At the Diesel Control Panel, start the diesel generator by placing the MANUAL START toggle switch to the PERMISSIVE START position.
    - 1. Verify the following parameters: (Reference 3.1.4)
      - o Oil Pressure GREATER THAN 50 psig
      - o Voltage 450 to 500 volts (all phases)
      - o Frequency 58.8 Hz to 61.2 Hz
  - C.1.3 At the Main Distribution Panel, place breakers for circuits 1 through 14 OFF.
  - C.1.4 At the MANUAL TRANSFER SWITCH, place the MAIN breaker to OFF.
  - C.1.5 At the MANUAL TRANSFER SWITCH, place the D/GEN breaker to ON.

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	·=··· · · · · · · · · · · · · · · · · ·	NOTES	<u></u>
		ral seconds for generator load to stabile next breaker to the ON position.	lize before
a		oltage may be adjusted as necessary by us to the diesel generator field breaker loo	
1	-	nerator coolant temperature should be gro 20 F prior to loading the diesel genera	
<u></u>	C.1.6	At the Main Distribution Panel, place Through 14 to ON.	breakers 1
-		NOTE	
		equirements apply only during steady-sta esel under a constant load.	te conditions
	.1.7	WIIFN the discel is encycting under los	
		WHEN the diesel is operating under loa following parameters should be maintai (Reference $3.1.4$ )	
		following parameters should be maintai	
		following parameters should be maintai (Reference 3.1.4)	ned.
		following parameters should be maintai (Reference 3.1.4) o Oil Pressure GREATER THAN 50 psig	ned.
C.2		<pre>following parameters should be maintai (Reference 3.1.4) o Oil Pressure GREATER THAN 50 psig o Voltage 450 to 500 volts (all phas</pre>	ned. es)
C.2		<pre>following parameters should be maintai (Reference 3.1.4) o Oil Pressure GREATER THAN 50 psig o Voltage 450 to 500 volts (all phas o Frequency 58.8 Hz to 61.2 Hz ISC Diesel Generator is no longer needed</pre>	ned. es) , <u>THEN</u> shutdown
C.2	the dies	<pre>following parameters should be maintai (Reference 3.1.4) o Oil Pressure GREATER THAN 50 psig o Voltage 450 to 500 volts (all phas o Frequency 58.8 Hz to 61.2 Hz ISC Diesel Generator is no longer needed sel generator as follows: At the Main Distribution Panel, place</pre>	ned. es) , <u>THEN</u> shutdown breakers for
C.2	the dies	<ul> <li>following parameters should be maintai (Reference 3.1.4)</li> <li>o Oil Pressure GREATER THAN 50 psig</li> <li>o Voltage 450 to 500 volts (all phas</li> <li>o Frequency 58.8 Hz to 61.2 Hz</li> <li>ISC Diesel Generator is no longer needed</li> <li>sel generator as follows:</li> <li>At the Main Distribution Panel, place</li> <li>circuits 1 through 14 OFF.</li> <li>At the MANUAL TRANSFER SWITCH, place t</li> </ul>	ned. es) , <u>THEN</u> shutdown breakers for .he D/GEN breake

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## ATTACHMENT C (Page 3 of 3) TSC DIESEL OPERATIONS

## NOTE

The Diesel should be allowed to run unloaded for 3 to 5 minutes to cool down.

- C.2.5 At the Diesel Control Panel, stop the diesel by placing the MANUAL START toggle switch to OFF.
- C.2.6 Ensure the EMERG. GENERATOR INTAKE DAMPER D6 is closed.
- C.2.7 Notify the Control Room to perform STN KAT-001, TECHNICAL SUPPORT CENTER DIESEL GENERATOR OPERATION, to ensure the diesel is ready for operation.

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## ATTACHMENT D (Page 1 of 1) EMERGENCY RESPONSE DATA SYSTEM (ERDS) OPERATIONS

## D.1 ERDS Activation

- D.1.1 In the TSC computer room, perform one of the following using the NPIS Computer:
  - o Select the E-Plan Menu, then touch the ERDS block on the screen

OR

- o Type the Turn-On code "ERDS" and press the "Return/Enter" key
- D.1.2 Follow the prompts until the ERDS is activated.
- D.1.3 Notify the TSC Operations Coordinator that ERDS is activated.

## D.2 ERDS Deactivation

D.2.1 IF directed by the NRC to deactivate ERDS, THEN press "F3" key and follow the prompts.

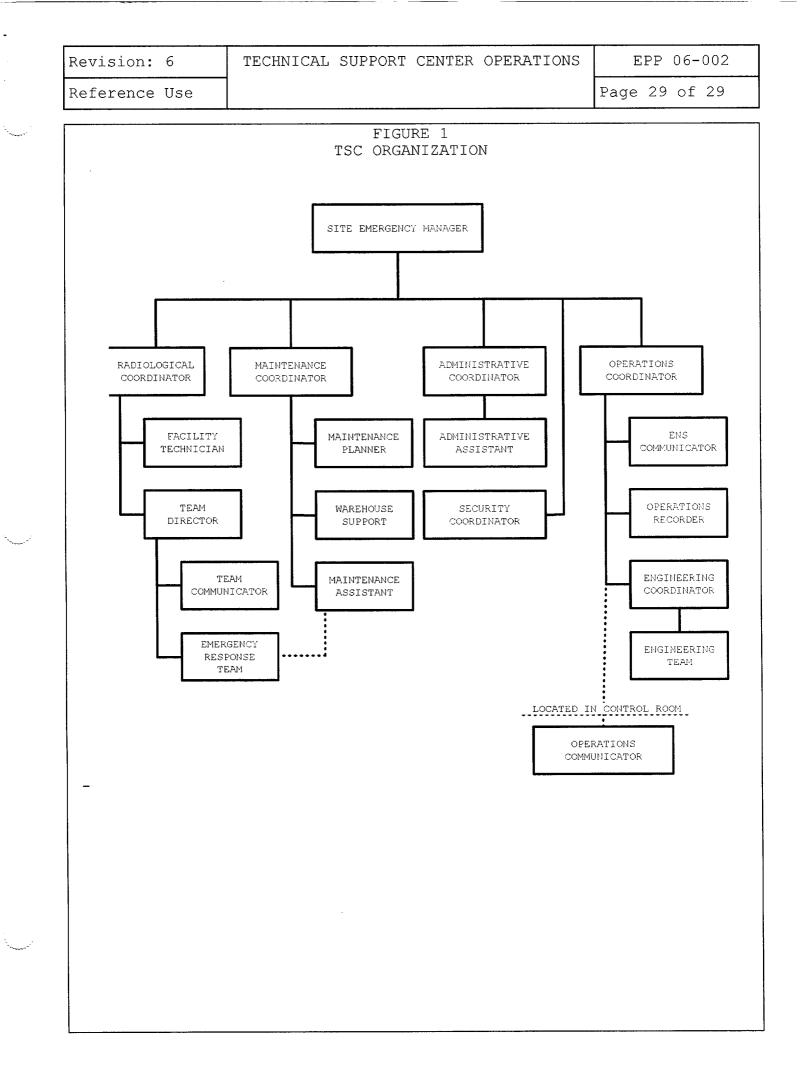
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## ATTACHMENT E (Page 1 of 1) POSITIONS REQUIRED FOR AUGMENTATION

## E.1 <u>Augmentation</u>

E.1.1 The following 25 positions are required to be filled within 60 minutes of the determination that augmentation is needed:

- 1 Radiological Coordinator
- 1 Chemistry Technician
- 1 Nuclear Engineer
- 1 Electrical Engineer
- 1 Mechanical Engineer
- 1 I&C Technician
- 2 Mechanical Maintenance
- 2 Electrical Maintenance
- 3 Communicators (Any combination from Administrative Assistant, ENS, or HPN positions to make three)
- 4 Off-site Health Physics Technicians
- 8 On-site Health Physics Technicians
- E.1.2 The following 5 positions are required to be filled within 90 minutes of the determination that augmentation is needed:
  - 1 Off-site Emergency Manager
  - 1 Operations Coordinator
  - 1 Radiological Coordinator
  - 1 Administrative Coordinator
  - 1 Facility Technician



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EPP 06-012

DOSE ASSESSMENT

## Responsible Manager

Manager Resource Protection

Revision Number	5
Use Category	Reference
Administrative Controls Procedure	No
Infrequently Performed Procedure	No
Program Number	06

DC2 10/26/2001

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DOSE ASSESSMENT

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#### 1.0 PURPOSE

1.1 This procedure provides guidance for determining release rates and for estimating off-site dose to the Whole Body and Thyroid.

### 2.0 SCOPE

2.1 The estimated release rate, total release values, off-site dose rates, and integrated doses to the Whole Body and Thyroid, are used in conjunction with EPP 06-006, PROTECTIVE ACTION RECOMMENDATIONS, as one basis for determining off-site protective actions to be recommended to State and County Officials.

### 3.0 REFERENCES AND COMMITMENTS

- 3.1 References
  - 3.1.1 CHS AX-G01, SAMPLING OF UNIT AND RADWASTE VENTS FOR RADIOACTIVE GAS AND TRITIUM
  - 3.1.2 EPP 06-006, PROTECTIVE ACTION RECOMMENDATIONS
  - 3.1.3 EPP 06-009, DRILLS AND EXERCISE REQUIREMENTS
  - 3.1.4 EPP 06-011, EMERGENCY TEAM FORMATION AND CONTROL
  - 3.1.5 EPP 06-013, EXPOSURE CONTROL AND PERSONNEL PROTECTION
  - 3.1.6 Radiological Emergency Response Plan (RERP)
  - 3.1.7 Regulatory Guide 1.109, Calculation Of Annual Doses To Man From Routine Release Of Reactor Effluents For The Purpose Of Evaluating Compliance With 10CFR50, Appendix I, (Rev. 1, October, 1977)
  - 3.1.8 Regulatory Guide 1.111, Methods For Estimating Atmospheric Transport And Dispersion Of Gaseous Effluents In Routine Releases From Light Water Cooled Reactors, (Rev. 1, July 1977)
  - 3.1.9 Regulatory Guide 1.145, Atmospheric Dispersion Models For Potential Accident Consequence Assessments At Nuclear Power Plants, (August, 1979)
  - 3.1.10 Regulatory Guide 1.23, Meteorological Programs In Support Of Nuclear Power Plants, (September, 1980)
  - 3.1.11 Regulatory Guide 1.4, Assumptions Used For Evaluating The Potential Radiological Consequences Of A Loss Of Coolant Accident For Pressurized Water Reactors, (Rev. 2, June 1974)

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#### 3.2 Commitments

3.2.1 ITIP 00101 (SOER 83-02, Recommendation R12), Ensure Estimates Of Dose Can Be Made For Two-Phase Or Liquid Releases Though S/G Safety And Relief Valves.

### 4.0 DEFINITIONS

## 4.1 Emergency Planning Zone (EPZ)

4.1.1 The area around WCGS in which emergency preparedness planning is conducted. The plume exposure EPZ has a radius of approximately 10 miles. The ingestion exposure pathway EPZ has a radius of about 50 miles.

## 4.2 Exclusion Area

4.2.1 That area within a 1200-meter radius surrounding WCGS in which WCNOC has the authority to determine all activities including exclusion or removal of persons and property from the area.

### 4.3 Integrated Dose

- 4.3.1 The amount of ionizing radiation that has been received during a given period of time by a population or group.
- 4.4 Pasquill Atmospheric Stability Classifications
  - 4.4.1 Are measures of the stability or instability of an air mass based upon the vertical temperature differential between two points.

## 4.5 Projected Dose

4.5.1 The amount of ionizing radiation that is likely to be received by a population or group if no protective action measures are implemented.

### 4.6 Projected Integrated Dose

4.6.1 The summation of the Integrated Dose (previous) and the Projected Dose (future).

## 4.7 Protective Actions

4.7.1 Those emergency measures taken to minimize or prevent radiological exposures to personnel.

### 4.8 Release Rate

4.8.1 The quantity of radioactive material released to the environment expressed in curies per second (Ci/sec).

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## 4.9 Source Term

- 4.9.1 The calculated quantity of radioactive material available for or being released to the environment.
- 4.10 X/Q
  - 4.10.1 A factor based on meteorological dispersion characteristics which relates atmospheric radionuclide release rates to offsite air concentrations.
- 4.11 Nuclear Plant Instrument System (NPIS)
  - 4.11.1 A plant monitoring tool designed to view critical systems and components during normal and accident conditions.

### 4.12 Dose Assessment Program

4.12.1 A computer program developed at Wolf Creek designed to use site-specific source terms in the performance of Dose Assessment during an accident condition.

### 5.0 RESPONSIBILITIES

- 5.1 Shift Manager
  - 5.1.1 Prior to activation of the Emergency Operations Facility (EOF), assures the Shift Chemist implements this procedure.
- 5.2 Radiological Coordinator
  - 5.2.1 <u>IF</u> vent monitor(s) are inoperable, <u>THEN</u> consider dispatching Plant Team(s) to collect appropriate samples.

## 5.3 Shift Chemist

- 5.3.1 At the declaration of an ALERT or higher emergency classification reports to the Control Room to perform emergency dose calculations in accordance with this procedure.
- 5.4 Dose Assessment Coordinator
  - 5.4.2 Recommends that Offsite Monitoring Teams be dispatched to determine offsite dose rates in accordance with EPP 06-011, EMERGENCY TEAM FORMATION AND CONTROL.
  - 5.4.3 Informs the appropriate TSC or EOF management of the dose rate and projected integrated TEDE and Thyroid doses.

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# 5.5 Dose Assessment Technician

5.5.1 Performs emergency dose calculations in accordance with this procedure.

# 6.0 PRECAUTIONS/LIMITATIONS

- 6.1 To confirm that the correct version of the Dose Assessment Program is in use, open the Dose Assessment Program, then click on 'Help' and 'Help About'. The correct version currently in use is Rev. 3.1.0 If the correct version is not loaded on your computer, it should be removed from your hard drive.
- 6.2 Offsite dose projection calculations should be performed at least once per hour during the first eight hours after the accident unless it is determined that releases of airborne radioactivity from the plant have been terminated.

### NOTE

Use 15 minute MET data averages to determine if changes are in progress.

- 6.3 Offsite dose projection calculations may be updated anytime it is deemed necessary. Offsite dose projection calculations should be updated if any of the following conditions occur:
  - 6.3.1 Release rate increases by more than 25 percent.
  - 6.3.2 Wind direction changes by more than  $22.5^{\circ}$ .
  - 6.3.3 Atmospheric stability classification changes.
  - 6.3.4 Wind speed changes by more than 50 percent.
  - 6.3.5 Prior to any planned releases.
- 6.4 <u>IF</u> a radiological release is already in progress before a dose assessment calculation is performed, <u>THEN</u> be sure to look at historical release data / trend on the NPIS to determine the maximum release rate, monitor readings, and meteorological conditions.
  - 6.4.1 <u>IF</u> this is not done <u>THEN</u> an under estimation of an emergency dose projection can occur.

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#### 7.0 PROCEDURE

### 7.1 Program Description

#### NOTES

- o Tab and Shift Tab key manipulations may be used to move through a Model Screen.
- o Commonly practiced window manipulations may also be used to move through the program.

7.1.1 The following models may be selected by selecting the appropriate tab in the upper right hand corner of the program window.

- 1. Release Rate Model
- 2. Design Basis Accident (DBA)
- 3. SG Tube Rupture
- 4. Radiation Monitoring System
- 5. Field Team Data

### 7.1.2 Information

- 1. Selection of the INFORMATION heading on the tool bar allows access to the following screens:
  - a. Dose Projection Report/Dose by Subzone

b. Source Term

- 2. The Dose Projection Report/Dose by Subzone and Model Screen are two separate program windows and can both be visible at the same time, subject to limitations of screen resolution, and size.
  - a. The Model Screen includes:
    - 1) MET data section
    - 2) Release data section
    - 3) Performed/Verified signature section
    - 4) Release start time
    - 5) Calculation result section:

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			a)	Particulate, Noble Gas an rates.	d Iodine release
			b)	Projected Centerline Dose results of the data enter summed.	
		6)		R section which is based o se Segment as well as the	
			a)	Only evacuation recommend listed.	ed subzones are
			se F clud	Projection Report/Dose by S les:	ubzone Screen
		1)	Εx	ose Rate to the Whole Body clusion Area Boundary (EAB les in Roentgen per hour (	), 2, 5, and 10
		2)		ume arrival time in minute nd 10 miles based on wind s	
		3)		stimated hours until evacua or EAB, 1 R TEDE or 5R thyr	
		4)		list of both TEDE and Thyr ach subzone.	oid Dose for
	3.	The s infor		ce term option allows manip	ulation of DCF
		di	stri	ource term enables the user ibution from the USAR Gap a ities.	
		1)	so to	election of the Activity he ource term screen tool bar o zero all activities for m o return to USAR Gap activi	allows the usem anual entry or
		2)	te	election of the File headin erm screen tool bar allows anipulation.	

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## NOTE

If the containment spray is selected, the program will inquire whether the spray has been on for 30 minutes or more. If the spray has been on for 30 minutes or more, the filtration factor will be utilized; if not, the filtration factor will not be applied.

- b. Two additional nuclide distribution factors are available on the source term screen, HEPA filters and Containment Spray.
  - A "Y" entry in the HEPA Filter Box reduces the Iodine Activity 90%. That is, 10% of the Iodine activity is released to the public.
  - 2) A "Y" entry in the Containment Spray Box reduces the Iodine Activity available for release by 75%. That is, 25% of the Iodine activity is released to the public.
  - 3) If both HEPA Filter and Containment Spray are answered "Yes", the Iodine Activity used in the offsite dose projections is reduced to 2.5% of its original activity level.
  - Prior to performing real time calculations, the user must remember to check the source term screen values to ensure projection source term values are appropriate.
- 4. PARs selection from the Information Menu Bar provides information for review of Protective Action Recommendations.

#### NOTE

The notification form can only be printed if THE DOSE ASSESSMENT PROGRAM is running from the LAN.

- 5. The File Menu bar provides options to print the Notification form and calculation worksheet.
- 7.1.3 <u>Data</u>
  - 1. Selection of Data from the Menu Bar allows selection of the following actions:
    - a. Sort Dose by Subzone

### b. Sum Dose

- c. Perform Calculations
- d. Long Range Calculations
- 2. The Sort Dose by Subzone and Sum Dose actions are self-explanatory.

## 7.1.4 <u>Calculations</u>

- 1. The offsite doses will be calculated using the data displayed on the Model Screen.
- 7.1.5 Long Range Calculations
  - The offsite doses, and farthest evacuation distance will be calculated using the data displayed on the Model Screen.
- 7.2 Program Use
  - 7.2.1 The Dose Assessment Program will normally be operated from an Icon on the desktop. The program is also available at I:\Shared\EDCP\EDCP.EXE.
  - 7.2.2 Select a Release Model from the tabs in the upper right hand corner of the program screen.
  - 7.2.3 Dose calculations may now be performed. Menu items necessary for operation of the program are selected from the Menu Bar.

## NOTE

On a total loss of offsite power, certain radiation monitors are still available. See ATTACHMENT B for more information.

- 7.2.4 Obtain the following information:
  - 1. Plant Status
  - 2. MET data
  - 3. Process Monitor data
  - 4. Effluent Flow rate data

-OR-

5. If no data is available perform a DESIGN BASIS RCS LOCA using:

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	a. DBA Release Rate	
	b. Unfiltered Release Pathway	
	c. Stability Class D for daytime F for night time	or Stability Class
	-OR-	
	d. If the accident is deemed to Design Basis and is rapidly e recommend to the Emergency Ma 06-006, PROTECTIVE ACTION REC	scalating, nager to use EPP
7.2.5	Dose Assessment Program MET Informat	ion
	<ol> <li>Wind speed can be input as mph, double-clicking within the box s input description until the appr is displayed.</li> </ol>	urrounding the
	<ol> <li>Projected release duration and t trip can both be input as hrs., double-clicking within the box s input description until the appr is displayed.</li> </ol>	mins., or days by urrounding the
	3. A Stability Class-Wind Speed/Wea Help Screen is available by doub the stability class input field.	
	a. The user may generate a stabi selecting the appropriate wea inputting the proper wind spe	ther condition and
	b. The generated stability class Model Screen by selecting FIL	
7.2.6	Dose Assessment Program Model Operat	ions
	1. Steps 7.2.7 through 7.2.11 conta regarding data entry specific to	
7.2.7	Option One, Release Rate Model	
	1. This model allows the user to in Iodine release rates in Ci/sec.	put Gaseous and
	2. The following instructions may b operating the Release Rate Model	
	a. Gaseous Release Rate may be o Release Rate by double-clicki surrounding the Gaseous Relea	ng within the box

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	G b	ikewise, the display can be aseous Release Rate from To y double-clicking within th urrounding the total releas	tal Release Rate e box
	doubl	e Release Rate may be chang e-clicking within the box s e Release Rate.	
		$\underline{F}$ the ratio is known, $\underline{THEN}$ ntered.	the value can b
	b	f the ratio is unknown, a H e displayed by double-click nput field for the iodine r	ing within the
	f	nce the user selects the ap rom the list, FILE EXIT is o the Model Page of the rep	used to return
	R	he display may be changed b elease Rate by double-click ox surrounding Iodine/Noble	ing within the
	is kn	leak rate (gal/min) and act own or can be estimated, $\frac{TH}{T}$ lation could be used to det	IEN the followin
	$\left(\frac{\mu Ci}{cc}\right)$	$ \underbrace{\left(\begin{array}{c} gal\\ \min\end{array}\right)}_{\min} \underbrace{\left(\begin{array}{c} 3.785L\\ gal\end{array}\right)}_{i} \underbrace{\left(\begin{array}{c} 1000cc\\ L\end{array}\right)}_{i} \underbrace{\left(\begin{array}{c} Ci\\ 1E6\mu\end{array}\right)}_{i} \underbrace{Ci}_{i}$	$Ci$ = $\frac{Ci}{s}$
7.2.8	<u>Option Two,</u>	Design Basis Accident (DBA)	Model
	calculat	el allows the user to perfo ions based on USAR release design accidents.	
		option is selected, the use ist of nine DBAs:	er may select
	a. Loss	of Coolant	
	b. Main	Steam Line Break	
	c. Loss	of Offsite AC	
	d. Locke	ed RCP Rotor	
	e. Waste	e Gas Decay Tank Rupture	
	f. CVCS	Break	

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- g. SG Tube Rupture
- h. Fuel Handling Accident
- i. Control Rod Ejection

NOTE

Use field team data whenever available to provide the most accurate dose estimations.

- 7.2.9 Option Three, Steam Generator Tube Rupture
  - 1. The SG Tube Rupture Model allows the user to perform dose calculations based on a steam generator tube rupture utilizing steam flow and shine monitor readings.
  - 2. The following instructions may be helpful when performing SG Tube Rupture calculations:
    - a. Steam generator monitor readings may be input in mR/hr for either a steaming steam generator or a full steam generator.
      - The input description is changed by doubleclicking within the box surrounding the input description.
      - Steam generator flow may be input in lbm/hr, thousands of lbm/hr, gph or as a pressure entered by the user.
        - a) Gallons per hour (gph) should be selected if the steam generator is full of water. This option represents a two-phase or liquid release from the steam generator. [Commitment Step 3.2.1]
        - b) The input description is changed by double-clicking within the box surrounding the input description.
      - 3) A Steam Generator PORV/Auxiliary Feed Exhaust Help Screen is available by doubleclicking either the steam generator monitoring readings or steam generator flow input field.
        - a) Once the Help Screen is completed, the user can return the averaged flow and monitor readings to the Main Screen by selecting FILE EXIT.

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7.2.10	Option Fo	ur, Radiation Monitoring Syste	m (RMS)	
	the u the v	MS Model allows the user to in nit and/or radwaste vent monit ent flow rates to perform offs lations.	or as well as	
		ollowing instructions may be h rming RMS calculations:	elpful when	
	Ac	seous Activity - May be change tivity by double-clicking with rrounding Gaseous Activity.		
	1)	Likewise, if Total Activity may be toggled back to Gaseo using the same technique.		
	ne by th fu	odine Activity - May be changed ecessary by entering the ratio double-clicking within the bo e Iodine Activity. This is a enction and may be returned to sing the same technique.	value followed x surrounding toggle type of	
	1)	If the ratio is unknown, the entered.	e value may be	
	2)	If the ratio is unknown, onc has been changed to a ratio clicking on the associated of access a Help Screen.	input, double-	
	3)	Once the user selects the ap ratio, FILE EXIT may be used value to the Model Screen.		
	c. Ve	ent Flow may be entered.		
	1)	A Help Screen is available k clicking the Vent Flow data		
	2)	Enter the fan status for eac entering the status and ther		
	3)	Select Vent Totals from the total the flows required.	tool bar and	
	4	Select FILE EXIT from the to forward the value to the Mod		
7.2.11	Option F	ive, Field Team Data Model		

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	1.	rates, concen calcul	odel allows the user to input iodine concentration, partic tration and distance informat ate the plant release rate an tely the down field doses.	ulate ion to back	
	2.		llowing instructions may be h ming the Field Team dose calc		
		,,	NOTE		
Program is unless an e	0.112 ntry	. If t is made	ratio used throughout the Dos he Particulate/Iodine ratio i , the value of 0.0 will be us the field team model.	s selected,	
		to the Con and usi Iod	ld Team Iodine Concentration Iodine/Noble Gas Ratio by dou box surrounding Field Team I centration. This is a toggle may be changed back to conce ng the same technique. By se ine/Noble Gas Ratio the parti	ble-clicking in Todine e-type function entration input electing	
		Wll	l change to Particulate/Iodin		
		W11 1)	l change to Particulate/Iodin If the ratio is known, the v entered.	ne Ratio.	
			If the ratio is known, the w	ne Ratio. Value may be ce the display input, double-	
		1)	If the ratio is known, the wentered. If the ratio is unknown, one has been changed to a ratio clicking on the associated of	he Ratio. Value may be ce the display input, double- data field will opropriate ratio	
		1) 2) 3) b. Fie of	If the ratio is known, the ventered. If the ratio is unknown, once has been changed to a ratio clicking on the associated of access a Help Screen. Once the user selects the apprile EXIT may be used to ret	he Ratio. Value may be the display input, double- data field will opropriate ratio turn the value t led between unit le-clicking in	
7.3 <u>Printer</u>	<u>Use</u>	1) 2) 3) b. Fie of	If the ratio is known, the wentered. If the ratio is unknown, once has been changed to a ratio clicking on the associated of access a Help Screen. Once the user selects the ap FILE EXIT may be used to ret the Model Screen.	he Ratio. Value may be the display input, double- data field will opropriate ratio turn the value t led between unit le-clicking in	

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# NOTE

There may be error messages received when printing the notification form. In most cases these are due to the PC configuration and not the Dose Assessment Program program. If the program does not abort, then you should get printed output.

- 7.3.2 The notification form will only print if the PC is connected to the LAN and the user is logged into a server.
- 8.0 INITIAL ACTIONS
- 8.1 None.

### 9.0 SUBSEQUENT ACTIONS

9.1 None.

### 10.0 RECORDS

- 10.1 Printouts associated with this procedure are considered records.
- 10.2 Records generated by this procedure during an actual emergency are considered lifetime QA records and shall be forwarded to Emergency Planning at the termination of the emergency.
- 10.3 Records generated by this procedure during a drill or exercise are considered non-QA records and shall be forwarded to Emergency Planning at the termination of the drill or exercise.
- 11.0 FORMS
- 11.1 None

- END -

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CREEN DI	SPLAYS
ich Scree	en for E-Plan Menu
	where of the fellowing
creen IC	or one of the following
II	AREA RAD
1	Radiological Status
±•	a.) MET Data
D	b) Radmonitors $\mu$ Ci/cc
۷.	Area Radmonitors mR/hr and CHARM R/hr
3	
5.	10 exit piess 10 key
IV	GROUP DISPLAY
1.	SGCHEM 1
	SGCHEM 2
	SGCHEM 3
4.	PORVMSIV, etc.
NOTE:	a) To trend press F4
Кеу	
	b) For the New Group
r.	Display press F5 Key
5.	To exit press Group Key
Display	Color Code
t	
Reading	a
	-
- END	
	Screen fo II 1. Press 2. 3. IV 1. 2. 3. 4. NOTE: Key 5. Display t d Reading

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# ATTACHMENT B (Page 1 of 2) RADIATION MONITOR INFORMATION

On a total loss of off-site power the following radiation monitors remain operable:

GHRT 10A Radwaste Building Vent - Part & Iodine

GHRT 10B Radwaste Building Cent - WRGM

GTRE 21A Unit Vent - Part & Iodine

GTRE 21B Unit Vent - WRGM

FCRT 385 Aux. Feedwater Turbine Discharge Monitor

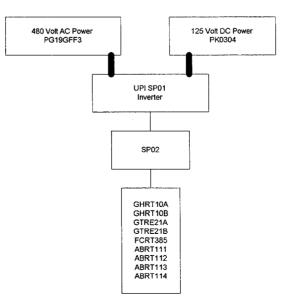
ABRT 111 Steam Line "D" PORV Discharge Monitor

ABRT 112 Steam Line "C" PORV Discharge Monitor

ABRT 113 Steam Line "B" PORV Discharge Monitor

ABRT 114 Steam Line "A" PORV Discharge Monitor

1. These monitors have as their normal AC power SP02 which is supplied by AC power supply PG19GFF3 (480 Volt AC). This feeds or goes from PG19GFF3 to SP01 Inverter [an UPI] to SP02 to monitors.



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# ATTACHMENT B (Page 2 of 2) RADIATION MONITOR INFORMATION

- 2. The SP01 Inverter is also fed by a 125 volt DC power PK0304 [plant batteries]. In the event of a loss of offsite power occurs (PG19GFF3) then the inverter (UPI) SP01 still feeds the monitors via SP02.
- 3. If after a total loss of offsite power, the plant would regain one of the NB buses, then the radiation monitors that are fed from that bus would also be available if flow was restored to the monitor.

# NOTE

The Chemistry Technicians may have to remind the Control Room to restore flow to these monitors.

4. If the RM-11 is not available the flow to these monitors will have to be done from their RM-23's. (The RM-11 is not powered by NB bus).

- END -