

South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

April 6, 2004 NOC-AE-04001702 STI: 31717246 FILE NO: Z18 ER 20040014 10CFR50.4(b)(5) 10CFR50 App E

-045

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, DC 20555

STP NUCLEAR OPERATING COMPANY Units 1 and 2 Docket Nos. STN 50-498; STN 50-499 Changes to Emergency Plan Procedures

In accordance with 10CFR50.4(b)(5) and 10CFR50, Appendix E, Section V, the STP Nuclear Operating Company hereby submits the attached Emergency Plan Implementing Procedure revision.

If there are any questions regarding this matter, please contact Aubrey Morgan at (361) 972-7004.

Manager, Plant Protection

PLS/mk Enclosure:

Letter of Receipt Description of Changes 0ERP01-ZV-EF01, EOF Director / Rev. 11 0ERP01-ZV-EF02, Deputy EOF Director / Rev. 8 0ERP01-ZV-EF04, Technical Director / Rev. 6 0ERP01-ZV-IN04, Assembly & Accountability / Rev. 10 0ERP01-ZV-SH01, Shift Supervisor / Rev. 19 0ERP01-ZV-TP01, Offsite Dose Calculations / Rev. 15 0PGP03-ZV-0001, Severe Weather Plan / Rev. 10

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Cc: (paper copy)

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To:	P. L. Serra		
	Manager, Plant Protection		
	STP Nuclear Operating Company		
	P. O. Box 289	· · · 2	
	Wadsworth, TX 77483		•
From:	Emergency Planning Coordinator		· .
	Region IV Office of the Regional Administrator	et fan de sta	с. с
	U.S. Nuclear Regulatory Commission	€.	• .
•	611 Ryan Plaza Drive, Suite 400		•.
	Arlington, TX 76011-8064	₹ ji	•
Subject:	Receipt Acknowledgment for Changes to STP		·. ·
-	Emergency Plan Implementing Procedure	•	

I hereby acknowledge having received changes to the STP Nuclear Operating Company's Emergency Plan Implementing Procedures.

Signature

Date

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Description of Changes

Description of Changes				
These revisions do not reduce the effectiveness or change the intent of	f the Emerger	ncy Respons	e Progra	am.
0ERP01-ZV-EF01, EOF Director / Rev. 11	· · · · ·		• • • • •	
Page 3, added step 3.4, An Unusual Event based on a security incident EOF and listed positions. Page 3, revised step 3.5, An Unusual Event based on other than a secu Page 5, added step 5.1, If an Unusual Event is declared based on Secu	t requires par rity event rity, then rep	tial staffing ort to the EC	of the DF	
Page 5, added Unusual Event security related staffing. Page 16, Data Sheet 2, added Director Briefing Form.		 :	· · ·	:
0ERP01-ZV-EF02, Deputy EOF Director / Rev. 8	· · · · ·			· •
 Removed Data Sheet 2, Emergency Director Status Briefing because i Page 2, added step 3.1, An Unusual Event based on a security incident and listed positions. Page 2, added step 3.2, EOF UE staff is at the discretion of the Emerg Page 3, step 5.1, directs Deputy EOF Director to report to the EOF at security incident. Page 5, added security Unusual Event staffing table. Page 9, step 2.0, added Security Event instructions. 	t is no longer t proposed st ency Directo an Unusual E	used. affing of the r. Vent if base	EOF d on a	
0ERP01-ZV-EF04, Technical Director / Rev. 6	· · · ·		. •	
Removed Data Sheet 2, Emergency Director Status Briefing because i Page 9, step 4.3, removed reference to Data Sheet 2.	it is no longe	r used.		
0ERP01-ZV-IN04, Assembly & Accountability / Rev. 10	. *			
Page 6, Addendum 1, changed CPF to Building 52. Page 7, Added Addendum 2, Assembly and Accountability Flowchart Page 8, Data Sheet 1 Step 3.0, Direct the Security Force Supervisor to exiting personnel if applicable	t. o open the We	est Gatehous	se for	
0ERP01-ZV-SH01, Shift Supervisor / Rev. 19				•
Page 10, added New Addendum 5, Assembly and Accountability Flow Page 24, Data Sheet 3, step 1.3, moved Assembly and Accountability	wchart. PA Annound	cements to a	ddendur	m 5

Page 29, Data Sheet 4, step 1.3, moved Assembly and Accountability PA Announcements to addendum 5 Page 29, Data Sheet 4, step 1.3, moved Assembly and Accountability PA Announcements to addendum 5

0ERP01-ZV-TP01, Offsite Dose Calculations / Rev. 15

The onshift dose assessment program OPDA has been replaced by STAMPEDE.

Page 2, step 1.2, removed reference to OPDA.

Page 3, old step 2.5.3, removed reference to OPDA.

Page 5, old step 5.3, removed reference to method selection flowchart.

Page 5, step 5.4, replaced reference to OPDA with STAMPEDE.

Page 7, Form 1, removed reference to OPDA.

Deleted old page 11, Addendum 3, Use of OPDA Program, because it is no longer used at STP. Deleted old page 24, Addendum 7, Method Selection Flowchart, because it is no longer required.

0PGP03-ZV-0001, Severe Weather Plan / Rev. 10

Page 6, step 2.24, added bullet "Other Buildings - The lowest level floor and near the inner most walls" Page 6, step 2.24, added bullet "Owner Controlled Area – Sheltering outside the Protected Area should be the lowest floor near inside walls away from windows"

Page 8, step 3.8, added QA Records when talking about department quality documents

Addendum 1, page 15, added 3 new positions to the storm crew for facilities Mechanic, Electrician, and Transport

Form 4, page 29, added 3 new positions for facilities Mechanic, Electrician, and Transport

Data Sheet 2, page 37, added "For safety reasons ensure all personnel are dispatched in teams"

Data Sheet 3, page 39, new step 6.0, added "Prior to June 1 each year schedule a meeting of key stakeholders (eg., Maintenance, Facilities/Projects, Human Resources and payroll) to ensure consistency of Storm Crew compensation for crews and roll back to normal shifts"

Data Sheet 3, page 39, new step 9.0, added "If a Tropical Storm or Hurricane is predicted to impact STP, consider scheduling a preparatory meeting to discuss staffing of actions needed or in-process for each Severe Weather Condition"

Data Sheet 5, page 46, new step 12, "Prior to June 1 of each year, all departments shall notify the Severe Weather Coordinator when actions are complete"

Data Sheet 5, page 48, new step 30, added "Prepare 2 pallets of sand bags (spare) and stage in Annex, move to the FHB Doors at Condition 3"

Data Sheet 5, page 49, step 46, added "Leave 1 truck in the OCA and 1 truck in the Protected Area"

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	Quality	Non Saf	ety-Related	Usage: N	/A	Effective D	ate: 03/25/0	14
	Max Keyes		N/A		N/A	, E	mergency Respon	nse Divisio
	PREPARER		TECHNICAL		USER	C C	GNIZANT ORG	ANIZATIO
<u>Table</u>	e of Contents		· · · · ·	•			:	.]
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3.0	Precaustion	s and Limita	ations	•••••		•••••		•••••
4.0	Procedures.	•••••••	••••••			••••••	•••••	
5.0	References .		· · · · · · · · · · · · · · · · · · ·	1 N		*****	••••••••••••••••••••••••••••••••••••••	••••
	Addendum Data Sheet Data Sheet 2	2, Shift Tur 1, EOF Dire 2, Director 1	nover Briefing . 					
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EOF Director		

1.0 Purpose and Scope

- 1.1 This procedure provides guidance for the EOF Director to manage the accident assessment, classification, and protective action decision processes.
- 1.2 This procedure implements the requirements of the South Texas Project Electric Generating Station (STPEGS) Emergency Plan specific to the EOF Director.

2.0 Responsibilities

- 2.1 The EOF Director is responsible for:
 - 2.1.1 Assuming the responsibilities and authority of the Emergency Director.
 - 2.1.2 Ensuring resources are made available to support the Control Room and Technical Support Center (TSC) activities to mitigate the emergency situation.
 - 2.1.3 Ensuring the classification of the emergency situation is appropriate for plant conditions and the applicable onsite and offsite organizations are notified.
 - 2.1.4 Ensuring the appropriate protective measures are implemented for onsite organizations.
 - 2.1.5 Ensuring the appropriate protective actions are recommended to State and Matagorda County Emergency Management officials.
 - 2.1.6 Ensuring notifications to the offsite and onsite organizations are timely and accurate.
 - 2.1.7 Ensuring communications to the offsite and onsite organizations contains factual and timely information.
 - 2.1.8 Determining when Recovery is to be initiated and Termination can be declared.
 - 2.1.9 Establishing a Recovery organization for returning the affected Unit to an operating condition.
 - 2.1.10 Declare entry into the Severe Accident Management Guidelines.

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· · ·			EOF Director		
3.0	Preca	utions and	l Limitations	•	
	3.1	The Em	ergency Director is responsible for making ce entation. The responsibilities which CANNO	rtain key decisions a T be delegated inclu	nd ensuring their de:
	••	3.1.1	Declaring a new emergency classification.	· ·	
		3.1.2	Approving Protective Action Recommend County authorities.	ations (PARs) issued	l to State and
		3.1.3	Approving required notifications to the Sta	ite and County.	
		3.1.4	Approving exposures in excess of 10 CFR Potassium Iodide (KI).	20 limits and author	rizing the use of
		3.1.5	Approving departure from license conditio emergency response activities <u>NOT</u> related	ns per 10 CFR 50.54 I to Control Room C	4(x) for perator actions.
		3.1.6	Declaring entry into the Severe Accident N	lanagement Guideli	nes.
	3.2	The foll	owing Emergency Director responsibilities an	d authorities MAY b	be delegated:
		3.2.1	Requesting federal assistance.		1999 - J.
		3.2.2	Approving press releases prior to issuance	• •	
		3.2.3	Approving commitments to the Nuclear Re	egulatory Commissi	on (NRC).
		3.2.4	Approving required notifications to the NF	RC.	
	3.3	Recover from the	ry from a Site Area or General Emergency sha e Matagorda County, State of Texas, and the N	ll not be entered wit Iuclear Regulatory C	hout concurrence Commission.
	3.4	Recomm level is a Adminis Affairs Director EOF Lia	nended EOF staffing for an Unusual Event bat the following: EOF Director, Deputy EOF Dir stration Assistant, Licensing Director, Site Pul Coordinator, Site Public Affairs Administration r, Assistant Support Organization Director, Co aison, and Records Supervisor.	sed on a security em ector, Emergency D blic Affairs Specialis on Assistant, Suppor ommunications Syste	ergency action irector st, Site Public t Organization em Supervisor,
	3.5	Staffing discretion	levels of the EOF at the Unusual Event for ot on of the Emergency Director.	her than a security e	vent are at the
	3.6	The EO the EOF	F staff augmentation will be initiated at the A F may be activated at the discretion of the EOP	LERT emergency cla Director.	assification, and

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		EOF Director		
	3.7	The EOF is required to augment the Onshift Response Or required EOF staffing levels, within 75 minutes of being r	ganization, with notified.	the minimum
	3.8	The EOF is activated when the minimum staffing level at their required function.	the EOF is capa	able of performin
	3.9	Transfer of command and control from the Control Room Unusual Event or Alert emergency classification, but show higher emergency classification. Command and control no reaching Site Area Emergency at the discretion of the Emergency	or TSC is not r ald be initiated a nay be transferre ergency Directo	equired at the at the Site Area o ed prior to r.
4.0	Refer	ences		
	4.1	STPEGS Emergency Plan		
	4.2	0ERP01-ZV-IN01, Emergency Classification		
	4.3	0ERP01-ZV-IN02, Notifications to Offsite Agencies		
	4.4	0ERP01-ZV-IN04, Assembly and Accountability		
	4.5	0ERP01-ZV-IN05, Site Evacuation		
	4.6	0ERP01-ZV-IN07, Offsite Protective Action Recommend	ations	
	4.7	0ERP01-ZV-TP03, Severe Accident Management		
	4.8	0ERP01-ZV-RE01, Recovery Operations		
	4.9	0ERP01-ZV-RE02, Documentation		
	4.10	0PGP09-ZA-0002, Fitness for Duty Program		
	4.11	0PGP05-ZV-0004, Emergency Plan Implementing Proceed	lure Users Guid	e
	4.12	LCTS 9101254-936		

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			EOF Director		· · · ·
5.0	Proced	lures			
• ` ;	5.1	If an Un Affected	nusual Event is declared based on Security, ther d Unit Control Room for a briefing.	n report to the EOF	and contact the
•	5.2	If an Un of the fo	nusual Event is declared for other than a securit blowing initial response actions:	y event, then imple	ment one or mor
		• Con	tact the Affected Unit Control Room for a brie	fing;	
,			AND		
		• Brie	f the President, Chief Executive Officer on the	emergency;	
			AND	-	· •· · ·
		• Stan likel	ndby to staff the EOF if requested by the Emerg ly to escalate to a higher emergency classificati	ency Director or if on;	the situation is
			OR		
•		• Proc Eme	ceed to the Control Room, TSC, or EOF to eval ergency Director.	luate the situation a	nd assist the
	5.3	If an Al Operation Activition	ert or higher emergency classification is declar ons Facility and implement Data Sheet 1, EOF es.	ed, then proceed to Director Checklist,	the Emergency Step 1.0 Initial
·		5.3.1	Insert the time an activity is completed, for using the Emergency Action Log as necessa	reoccurring activiti	es, document
		5.3.2	Implement the appropriate portions of Data based on the events in progress.	Sheet 1, EOF Dire	ctor Checklist
		5.3.3	Use Addendum's and Checklists to help di	rect emergency acti	vities.
5.0	Suppo	rting Doo	cuments		
	6.1	Addend	lum 1, Required and Recommended Minimum	Staffing	
	6.2	Addend	lum 2, Shift Turnover Briefing	· · · ·	
			•	•	
	6.3	Data Sh	eet 1, EOF Director Checklist		

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	EOF Director		
Addendum 1	Required and Recommended Minin	num Staffing	Page 1 of 1

The following table reflects the Emergency Operations Facility staffing as required by Table C-1 of the Emergency Plan, and also those who are recommended for minimum staffing.

Those members of the ERO who are not onsite at the time of the emergency shall be able to augment the Onshift Response Organization within 75 minutes of notification as specified in Table C-1 of the Emergency Plan.

FACILITY	REQUIRED	RECOMMENDED
Emergency	Offsite Field Team Members (4)	EOF Director
Operations		Radiological Director
Facility		Technical Director
		Dose Assessment Specialist
		Offsite Field Team Supervisor
		System Status Evaluator
		Deputy EOF Director
		ED Administrative Assistant
		Status Board Keepers (2)
		Site Public Affairs Coordinator
		Site Public Affairs Specialist
		Engineering Assistant
		Offsite Agency Communicator

Security Related Unusual Event Recommended Staffing.

FACILITY	RECOMMENDED
Emergency	EOF Director
Operations	Deputy EOF Director
Facility	Emergency Director Administration Assistant
	Licensing Director
	Site Public Affairs Specialist
	Site Public Affairs Coordinator
	Site Public Affairs Administration Assistant
	Support Organization Director
	Assistant Support Organization Director
	Communications System Supervisor
	Records Supervisor
	EOF Liaison

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	•			EOI	Director		· ·			•
	Addendum	2		Shift I	urnover B	riefing			Page	of 1
10	Drovido o	hriafing of a	uanta ta th	a raliaf na	ron includ	ing the f	ollowing or	2000	-	•••
	Provide a	briefing of e	vents to ti	le rener pe		ing the I	onowing at	eas.		
	1.1 B	asis of the cu	rent emér	gency clas	sification a	nd the E	ALs of imp	ortanc	e	
	1.2 PI 1.3 St	atus of fissio	on Recom	barriers an	d critical s	afety fun	ctions.			
	1.4 SI	pecial security	or admir	nistrative p	roblems.					;
	1.5 O	pen items bei	ng tracked	l and prior	ities.					•
	1.6 C(17 N)	ompleted che	cklists and	1 logs. Tsite agen/	vies and NI	ec.	,			
	1.7 IN	formation on	status boa	ards.						
	1.9 R	ecovery plans	develope	d and corr	ective actio	n items t	for plant red	covery	. :	•
	1.10 Ci	urrent shift so	hedule.			,		•	· ·	•
2.0	Inform th	e following p	ersonnel o	of the trans	fer of resp	onsibiliti	es to the on	comin	g shift	
	replacem	ent. Annound	e that the	shift repla	cement is r	now assu	ming Emer	gency	Director	
	responsib	ilities and au	thority.			i			•• ••	· :
	21 F	OF staff	•	•						
	2.2 N	RC Director	of Site Op	erations					••	
	2.3 T	SC Manager	•		·	•				•
	2.4 Sł	nift Supervise	r	14 J.	· · ·					•
3.0	Contact the provide the provid	he following he new Emerg	and inforr gency Dire	n them of t ector with	he shift ch an update c	ange. Re of their a	equest the C ctivities.	County	and State	: to
	3.1 M 3.2 D	atagorda Cou uty Officer, I	inty Emer Division of	gency Mar f Emergeno	agement D cy Manage	virector ment at t	he State of	Texas	EOC	. *
4.0	Update th	e EOF Staffi	ng Board.		••		•			
5.0	Documen your repla	t the time of acement. Pro	turnover a vide origi	and the ide nal log she	ntity of you ets to the I	r relief c Deputy E	on your log OF Directo	and pr r.	ovide cor	ies to
5.0	Verify yo EPZ, THI necessary	ur telephone EN provide a '.	number o n alternate	n the shift e telephone	schedule. number fo	IF this te or contac	lephone nu t should eva	mber is acuatic	s inside th n of the l	ne 10 n EPZ be
7.0	If issued a	a TLD, then r	naintain c	ustody of t	he TLD ur	til Term	ination or R	lecove	ry.	
3.0	Take a co	py of your sh	ift schedu	ıle.	r_: ·					
9.0	Verify po returning Orientatio	ssession of a to the site for on Coordinate	STPEGS the next or.	Picturé Ba shift or rec	dge for acc juest a repl	ess thro acement	ugh possibl Picture Bae	e roadl dge fro	blocks wh m the Su	ien pport
10.0	Notify the	e individual r	esponsible	e for acces	s control at	the EOF	f of the shif	t chan	ge and sig	m out

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			EOF Director		
	Data Sh	neet 1	EOF Director Checklist		Page 1 of 8
		(Name)	(Date)		(Unit)
Action	n				Time
1.0	INIT	- IAL ACT	TIVITIES		
	1.1	Report Staffin	t to the Emergency Operations Facility and sign ng Board.	in on the	
	1.2	Initiate	e an Emergency Action Log.		
	1.3	Confer EOF.	r with the Deputy EOF Director on the current s	taffing of the	
		IF ER initial Direct	O personnel have not arrived within approximate callout, THEN direct the Assistant Support Orgon or to contact a substitute for the position.	tely one hour of ganization	
	1.4	Verify activit			
		1.4.1	Offsite Field Team Members (4).		
		NOTE EOF (: The above list is minimum staffing required (See Addendum 1).	to activate the	
	1.5	Reviev Directe	w the following with the Deputy EOF Director, or, Technical Director, and System Status Evalu	Radiological ator.	
		1.5.1	The current Emergency Action Level (EAL) a the current emergency classification.	nd the basis for	
		1.5.2	The current radiological conditions and the po radiological release requiring offsite PARs.	tential for a	
		1.5.3	The fission product barriers presently affected the prognosis. Include a review of EALs, whi an upgrade in emergency classification.	/threatened and ch could cause	
	1.6	Obtain Sheet 0ERP(suppor events	a a complete briefing from the Emergency Direct 2, Emergency Director Turnover Briefing of pro 01-ZV-TS01, TSC Manager. Specifically identi rt needed by the Technical Support Center with a in progress.	ctor using Data ocedure fy any special the current	

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		EOF Director	• • · ·	
Data Sh	neet 1	EOF Director Checklist	·	Page 2 of 8
tion		· · · · · ·		Time
1.7	Call a	meeting with EOF personnel to:		
	1.7.1	Brief EOF Staff of current plant conditions,	an a	
	1.7.2	Review current EOF activities,		
	1.7.3	Establish EOF priorities,		<u></u>
	1.7.4	Verify required EOF Staff is available,	· • • ·	
	1.7.5	Verify EOF is functional (equip, habitability, e	tc.),	•,
. 1.8	Declar Direct	re EOF activated when the EOF Directors report a public address announcement.	readiness.	
1.9	Verify	EOF is prepared to support the following:		
	1.9.1	Upgrading emergency classification,		<u> </u>
	1.9.2	PAR decision process,		
	1.9.3	Required notifications to State, County and NF	₹С ,	·
	1.9.4	Approving exposures in excess of 10 CFR 20 I authorizing the use of KI,	limits and	
	1.9.5	Requesting Federal assistance,		•
	1.9.6	Approving press releases prior to issuance,	<i>.</i>	•
	1.9.7	Approving departure from license conditions p 50.54(x) for emergency response activities <u>NO</u> Control Room Operator actions.	er 10 CFR <u>T</u> related to	
	1.9.8	Establish target time for transfer of Emergency authority to the EOF.	v Director	

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			EOF Director			
Data Sheet 1 EOF Director Checklist					Page 3 of 8	
Action	l				Time	
	1.10	Contac inform Emerg	et the Emergency Director for a final update of a ation since the last briefing and agree to a time tency Director authority.	ny new for transfer of		
	1.11	Assum annour addres	e command and control of the emergency response that you are the Emergency Director. Direct s announcement.	nse effort and a public		
	1.12	Contac situatio	et the President, CEO, and provide a briefing on on.	the current		
	1.13	1.13 Notify the State, County, and NRC that Emergency Director responsibilities and authority has transferred to the EOF Director.				
2.0	CONT	INUIN				
	2.1	Contin and log Board.				
	2.2	Contin taken f				
		2.2.1	Security events which could affect both Units;			
		2.2.2	Radiological releases which could complicate t Unit's operations;	he unaffected		
		2.2.3	Other site-wide events which could complicate Unit's operations;	the unaffected		
	2.3	Contin Radiol and NI	ually review the following with the Deputy EOI ogical Director, Technical Director, System Stat & Director of Site Operations.	Director, tus Evaluator,		
		2.3.1	Determine whether an upgraded classification is additional PARs should be considered (See Sec checklist if upgrade required).	s warranted or ction 4.0 of this		
		2.3.2	The conditions which must be met to enter Rec Section 5.0, Recovery Activities if Recovery in 6.0, Termination Activities for Termination).	overy, (See itiated, Section		

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•		EOF Director	·	
Data Sh	eet 1	EOF Director Checklist		Page 4 of 8
ion	·			Time
2.4	Period Briefir	ically conduct facility briefings using Data She ng Form. Ensure each functional area is addres	et 2, Director sed.	
	2.4.1	Source Term, (Technical & Radiological Dire	ector)	· · · · · · · · · · · · · · · · · · ·
	2.4.2	Fission Product Barrier prognosis, Technical Director)	& Radiological	
	2.4.3	Mitigation success, and failures Technical & I Director)	Radiological	
	2.4.4	Dose Projections, and facility habitability (Ra Director)	diological	
	2.4.5	Field Team Data, (Radiological Director)		
	2.4.6	Review Current priorities, (All)	· ·	
	2.4.7	Major work efforts underway, (All)		
	2.4.8	Review current EOF activities, priorities, and (Deputy Emergency Operations Facility Direc	new problems, ctor)	
	2.4.9	Review appropriate resources available, (Sup) Organization Director)	port	
	2.4.10	Evaluate need for Federal Assistance (EOF D	irector)	
	2.4.11	Licensing Director notifications, information	requests)	
	2.4.12	Resources needed and obtained (Support Orga Director)	anization	
	2.4.13	PARs, habitability, meteorology evacuation p (Radiological Director)	aths	
	2.4.14	Assessment, escalation paths (Technical Dire	ctor)	
	2.4.15	Prioritizes, site evacuation (Deputy EOF Dire	ctor)	· · · · · · · · · · · · · · · · · · ·
	2.4.16	Joint Information Center issues(Site Public A Coordinator)	ffairs	<u></u>
	2.4.17	NRC, BRC, Others		

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		EOF Director			
Data She	eet 1	EOF Director Checklist		Page 5 of 8	
Action				Time	
2.5	Consult and acco	with TSC Manager and determine if precautio ountability or site evacuation should be initiate	nary assembly d.		
	2.5.1 A	As a minimum, during an ALERT Classification lirecting visitors and nonessential contractors t site.	on, consider o leave the		
	2.5.2 If assembly and accountability or site evacuation is determined appropriate, implement 0ERP01-ZV-IN04, Assembly and Accountability, and 0ERP01-ZV-IN05, Site Evacuation.				
2.6	2.6 Ensure periodic public address announcements are made on the status of the emergency.				
2.7	Approve	<u> </u>			
2.8	Ensure t				
	2.8.1 Emergency Response Organization				
	2.8.2	oint Information Center,			
	2.8.3 I	Matagorda County Emergency Management Di Matagorda County EOC,	rector in the		
	2.8.4	nstitute of Nuclear Power Operations			
	2.8.5	STP Owners			
	2.8.6	American Nuclear Insurers			
	2.8.7	Any requested Federal Assistance responders.			
2.9	When th Respons	e estimated time of arrival is determined for the Team, notify Licensing Director and TSC M	ne NRC anager.		
2.10	Function Commis Control timely a	n as the primary interface with the Nuclear Reg ssion Director of Site Operations and Bureau o Chief of Field Operations. Ensure they are pro nd accurate information.	gulatory f Radiation ovided with		

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			EOF Director		-
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	2.11	Contin	ue to review this checklist by returning to Step 2	2.1 to:	· · ·
		2.11.1	Review plant status and prognosis for accident	assessment,	
		2.11.2	Review results of accident assessment for poter the present classification and PAR,	ntial change to	
		2.11.3	Provide updates to EOF Staff, TSC, NRC, Offs necessary.	site as	
	2.12	IF Ser Proced	ver reactor core damage is identified, THEN imp lure 0ERP01-ZV-TP03, Severe Accident Manag	plement gement.	
3.0	SHIFT	CHAN	IGE		. • •
	3.1	Upon a Adden Direct	arrival of your shift replacement, complete all ac dum 2, Shift Turnover Briefing. Include the De or in the briefing.	ctions listed in puty EOF	
4.0	CLAS RECO	SIFICA MMEN	TION UPGRADE OR CHANGE IN PROTECT	FIVE ACTION	· · · · · · · · · · · · · · · · · · ·
	4.1	Upgra Emerg IN07,	de classification in accordance with 0ERP01-ZV ency Classification and PARs in accordance wit Offsite Protection Action Recommendations.	V-INO1 th 0ERP-ZV-	
	4.2	Ensure	e that the Site NRC team is cognizant of classific tive action recommendation decision process.	cation and	· · · · · · · · · · · · · · · · · · ·
	4.3	Annou	nce the upgraded classification or PAR to EOF	personnel.	
	4.4	Direct upgrad	a Public Address Announcement for classificati le.	ion/PAR	
	4.5	Initiate accord for:	e and complete within 15 minutes offsite notifications to O lance with 0ERP01-ZV-IN02, Notifications to O	ations in Offsite Agencies	
		4.5.1	Classification upgrade		<u></u>
		4.5.2	Protective action recommendation initial or up	grade	
			and at a fact of the second second	t et en	

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EOF Director								
Data Sh	neet 1	EOF Director Checklist		Page 7 of 8				
ction				Time				
4.6	Ensure provid	e, appropriate functional area contacts the follow les an update of the current situation:	ving and					
	4.6.1	Matagorda County Emergency Management D Matagorda County EOC	irector in the					
	4.6.2	Duty Officer, at the State of Texas EOC		<u>.</u>				
	4.6.3	NRC Headquarters						
	4.6.4	STP Owners						
	4.6.5	American Nuclear Insurers						
	4.6.6	INPO						
	4.6.7	Joint Information Center						
5.0 REC	OVERY	ACTIVITIES						

NOTE

Recovery from a Site Area or General Emergency shall not be entered without concurrence from the Matagorda County, State of Texas, and the NRC.

- 5.1 Direct the EOF Directors to develop a list of activities and tasks that should be completed using 0ERP01-ZV-RE02, Form 1 Corrective Action Items List.
- 5.2 Contact the Matagorda County Emergency Management Director in the Matagorda County EOC and provide a briefing of the basis for entering Recovery.
- 5.3 Contact the Duty Officer, Division of Emergency Management in the State of Texas EOC and provide a briefing of the basis for entering Recovery.
- 5.4 Discuss entering Recovery with the NRC Director of Site Operations.
- 5.5 Announce recovery from the emergency condition to EOF personnel.
- 5.6 Initiate 0ER01-ZV-RE01, Recovery Operations.

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			EOF Director	· · · ·	
Data Sh	eet 1	·	EOF Director Checkli	st	Page 8 of 8
tion		•			Time
.0 TERN	MINATION	ACTIVITIES			
		· ·	NOTE	• •	<u> </u>
efer to 0ER mergency.	P01-ZV-IN	101, Emergency	y Classification to determi	ne conditions require	d to terminate the
6.1	Ensure an is made t	n announcemen o all personnel.	nt of Termination of the en	nergency condition	· · · · · · · · · · · · · · · · · · ·
6.2	Direct the should be Action It	e EOF Director completed usi ems List.	s to develop a list of activing 0ERP01-ZV-RE02, Fo	ities and tasks that frm 1 Corrective	· · · · · · · · · · · · · · · · · · ·
6.3	Contact t accident for Duty	he TSC Manag screening shou Program.	er and determine if Fitnes ld be initiated per 0PGP09	s for Duty post- 9-ZA-0002, Fitness	
6.4	Provide a Assistant	l list of any sup Support Orgar	plies or forms needing rep nization Director.	plenishment to the	
6.5	Initiate 0 the Emer personne concernin personne	ERP01-ZV-RE gency Respons l to complete. ng sections to b l.	02, Documentation, and a e Report to Emergency O Coordinate with the TSC e written by TSC/OSC/Co	ssign sections of perations Facility Manager ontrol Room	· · · ·
6.6	Collect a and logs.	nd organize in	chronological order all do	cuments, checklists,	
6.7	Turn ove Deputy E	r all documents mergency Ope	s generated during the emo rations Facility.	ergency to the	
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			Horace (1996) and the second sec	· · · · ·	
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		EOF Director					
	Data Sheet 2	Director Briefing Form		Page 1 of 1			
	(Name)	(Date/Time)					
1.	Technical Direct trends since last b	or: Event Chronology (initial briefing only), rief, potential escalation paths.	significant plant	status changes and			
2.	Radiological Dir PAR, potential PA	ector – Release Status, Status of Offsite Field AR escalation paths, any support needed.	l Teams, EOF H	labitability, Current			
3.	Bureau of Radia	tion Control (BRC) Utility Liaison					
4.	Licensing Director – 50.72 information provided to NRC since last brief, NRC Issues, unanswered questions from NRC, Planned NRC Response, Support Needed.						
5.	Support Organiz	zation Director – Summary of Activities in P	rogress, Suppor	t Needed.			
6.	Site Public Affai	rs Coordinator – JIC Status, Unfilled Inform	nation Requests				
7.	NRC Director of	Site Operations					
8.	Deputy EOF Dir County Activities	ector – Status of Assembly and Accountabili , Changes in TSC Priorities since last brief, R	ty, Status of site Review of EOF 1	Evacuation, Major Priorities			
9.	EOF Director –	Summary and Closure					
		· · · · · · · · · · · · · · · · · · ·					

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	Dep	outy EOF Director	II	
Quality	Non Safety-Related	Usage: N/A	Effective Date: 03	/25/04
Max Keyes	N/A	N/A	Emergency I	Response Division
PREPARER	TECHNICAL	USER	COGNIZANT	ORGANIZATION
Table of Contents		· .	· • · · ·	Page
.0 Purpose and Sc	ope			2
.0 Responsibilities	- 5		•	2
.0 Precautions and	l Limitations			
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. 0 Support Docum	ients			
Addendum 1, R	ecommended Minimu	m Staffing	••••••••••••	
Addendum 2 S	hift Turnover Briefing			6

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Deputy EOF Director		

1.0 Purpose and Scope

1.1 This procedure specifies the actions to be completed by the Deputy EOF Director in the Emergency Operations Facility (EOF) during a declared emergency.

2.0 Responsibilities

- 2.1 The Deputy EOF Director is responsible for:
 - 2.1.1 Assuming the function and responsibilities of the EOF Director in his absence.
 - 2.1.2 Monitoring the progress of the EOF staffing and keeping the EOF Director appraised of staffing levels and status.
 - 2.1.3 Providing ongoing support to the EOF Director in implementing EOF responsibilities and functions, including tracking the status of key emergency activities.
 - 2.1.4 Ensuring that required offsite agency notifications are completed.
 - 2.1.5 Coordination of status board keepers.
 - 2.1.6 Functioning as the interface with the County, State, and Federal Liaisons.
 - 2.1.7 Directs Site Evacuation when appropriate.
- 3.0 Precautions and Limitations
 - 3.1 Recommended EOF staffing for an Unusual Event based on a security emergency action level is the following: EOF Director, Deputy EOF Director, Emergency Director Administration Assistant, Licensing Director, Site Public Affairs Specialist, Site Public Affairs Coordinator, Site Public Affairs Administration Assistant, Support Organization Director, Assistant Support Organization Director, Communications System Supervisor, EOF Liaison, and Records Supervisor.
 - 3.2 Staffing levels of the EOF at the Unusual Event for other than a security event are at the discretion of the Emergency Director.
 - 3.3 The EOF staff augmentation will be initiated at the Alert emergency classification, and may be activated at the discretion of the Emergency Director.
 - 3.4 The EOF is required to augment the Onshift Response Organization, with the EOF minimum staffing levels, within 75 minutes of being notified.
 - 3.5 The EOF is activated when the minimum staffing level at the EOF is capable of performing their required function.

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			I	Deputy EOF	Director	۰ ۱		1
	3.6	Transfer of co Unusual Even higher emerg reaching Site	ommand and c nt or Alert eme ency classifica Area Emerger	control from the ergency classi ation. Commancy at the disc	te Control Roo fication, but sl and and contro retion of the E	om or TSC is not hould be initiated I may be transfer imergency Direct	required at t at the Site A red prior to or.	he Jea or
4.0	Refer	rences		•		· · · ·	• • • • • •	
	4.1	STPEGS Em	ergency Plan	•		· · · ·		. ·
	4.2	0ERP01-ZV-	IN05, Site Eva	acuation	· :		۲	. •.
	4.3	0ERP01-ZV-	EF01, EOF Di	irector .	` <u>.</u>	:		
• •	4.4	0ERP01-ZV- Deactivation	OF01, Alterna	ite Emergency	Operations F	acility Activation	i, Operation,	and
	4.5	0ERP01-ZV-	RE01, Recove	ry Operations	••		, , , , , , , , , , , , , , , , , , ,	1 h.
	4.6	0ERP01-ZV-	RE02, Docum	entation		,	:	•
	4.7	0PGP05-ZV-	0001, Severe	Weather Guid	elines		÷ F	•••
	4.8	0PGP05-ZV-	0004, Emerge	ncy Plan Impl	ementing Proc	cedure Users Gui	de	
·	4.9	0PGP04-ZO-	0007, Aircraft	Crash Onsite			:	. · · ·
5.0	Proce	edure				•	n Sententing	
	5.1	If an Unusua briefing from	l Event is decla the EOF Dire	ared based on ector.	Security, then	report to the EO	F and obtain	a
• •.	•	5.1.1 In us	sert the time a sing the Emerg	n activity is c gency Action I	ompleted, for : 	reoccurring activ	ities, docum	ent
	5.2	If an Alert or Operations F Activities.	higher emerge acility and imp	ency classifica plement Data	ntion is declard Sheet 1, EOF	ed, then proceed t Director Checklis	to the Emerg st, Step 1.0 I	ency nitial
		5.2.1 In	nplement the a	ppropriate po	rtions of Data	Sheet 1, EOF Di	rector Check	list

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Deputy EOF Director		

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6.0 Support Documents

- 6.1 Addendum 1, Recommended Minimum Staffing
- 6.2 Addendum 2, Shift Turnover Briefing
- 6.3 Data Sheet 1, Deputy EOF Director Checklist

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Addendum 1	Recommended Minimum Staffing	•	Page 1 of 1

The following table reflects the Emergency Operations Facility staffing as required by Table C-1 of the Emergency Plan, and also those who are recommended for minimum staffing.

Those members of the ERO who are not onsite at the time of the emergency shall be able to augment the Onshift Response Organization within 75 minutes of notification as specified in Table C-1 of the Emergency Plan.

FACILITY	REQUIRED	RECOMMENDED
Emergency	Offsite Field Team Members (4)	EOF Director
Operations .	· · · · ·	Radiological Director
Facility		Technical Director
		Dose Assessment Specialist
	· · · · · · · ·	Offsite Field Team Supervisor
		System Status Evaluator
		Deputy EOF Director
		ED Administrative Assistant
		Status Board Keepers (2)
		Site Public Affairs Coordinator
· · · · · · · · · · · · · · · · · · ·		Site Public Affairs Specialist
		Engineering Assistant
· · · · · · · · · · · · · · · · · · ·		Offsite Agency Communicator

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Security Related Unusual Events Recommended Staffing.

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FACILITY	RECOMMENDED
Emergency	EOF Director
Operations	Deputy EOF Director
Facility	Emergency Director Administration Assistant
	Licensing Director
· · · ·	Site Public Affairs Specialist
· · · · · · · ·	Site Public Affairs Coordinator
	Site Public Affairs Administration Assistant
• •	Support Organization Director
	Assistant Support Organization Director
	Communications System Supervisor
	Records Supervisor
	EOF Liaison

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		Deputy EOF Director	· · · · · · · · · · · ·					
	Addendum 2	Page 1 of 1						
1.0	Provide a briefing	g of events to the relief person including the fo	ollowing areas.	1				
	 1.1 Basis of th 1.2 Protective 1.3 Status of p 1.4 Special se 1.5 Open item 1.6 Completed 1.7 Notification 1.8 Information 1.9 Recovery 1.10 Current sh 	ne current emergency classification and the EA Action Recommendations issued. primary fission product barriers and critical sa curity or administrative problems. Is being tracked and priorities. d checklists and logs. ons issued to offsite agencies and Nuclear Repon on status boards. plans developed and corrective action items f hift schedule.	ALs of importar afety functions. gulatory Commi for plant recover	ice. ission. y.				
2.0	Inform the follow replacement. 2.1 EOF Direc 2.2 Assistant 2.3 NRC Direc 2.4 Corporate 2.5 State, Cou	ring personnel of the transfer of responsibilitie ctors TSC Manager ector of Site Operations e Central Evaluation Center Director unty, and Federal Liaisons	es to the oncom	ing shift				
3.0	Update the EOF s	staffing board.		۰. ،				
4.0	Document the tim your replacement	ne of turnover and the identity of your relief o . Provide original log sheets to the oncoming	n your log and j Deputy EOF Di	provide copies to rector.				
5.0	Verify the telepho EPZ, then provide necessary.	Verify the telephone number on the shift schedule. If this telephone number is inside the 10 mile EPZ, then provide an alternate telephone number for contact should evacuation of the EPZ be necessary.						
6.0	Is issued a TLD,	then maintain custody of the TLD until Termi	nation or Recov	very.				
7.0	Verify possession to the site for the Coordinator.	1 of a STP Picture Badge for access through p next shift or request a replacement Picture Ba	ossible roadblo adge from the S	cks when returning upport Orientation				

8.0 Inform the individual responsible for Access Control to the EOF of the shift change and sign out when leaving the EOF.

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•	·* .:		Deputy EO	F Director				
. D	Data She	et 1	Deputy EOF 1	Director Checkli	st ·	Page 1	of9	
		• • •			· · · · ·	. • ••		
		(Na	me)	(Da	nte)	(Ur	 nit)	
Action			· · · · · · · · · · · · · · · · · · ·	••••	• •	Tim	<u>e</u>	
1.0	INITL	AL ACI	IVITIES	:	· · · ·	•		
• .	1.1	Report staffin	to the Emergency Operations I g board.	Facility and sign	in on the		· · ·	•
	1.2	Ensure availat	the Deputy EOF Director's En	nergency Respor	nse Manual is			•.
	1.3	Initiate	e an Emergency Action Log.	· · ·	ъ. – •	<u> </u>		
	1.4	Verify Assist Emerg 1, Rec	current staffing levels of the E the EOF Director in determining ency Operations Facility occurs ommended Minimum Staffing.	mergency Opera ng when sufficie s in accordance	tions Facility. nt staffing of the with Addendum	;	· . ·	
	1.5	If the I then as actions	EOF Director has not arrived w ssume the role of EOF Director s:	ithin approxima and implement	tely one hour, the following	:		•
•.		1.5.1	Inform the EOF staff that you position.	are assuming th	e EOF Director			. ¹
	•	1.5.2	Proceed to 0ERP01-ZV-EF01 completion of the appropriate	, EOF Director, checklist.	and initiate		· .	
	1.6	Conta	ct the Assistant TSC Manager t	o discuss the fol	lowing:	· · · ·		
		1.6.1	The current Emergency Action current emergency classificati	n Level and the on.	basis for the	,		
		1.6.2	The current radiological cond radiological release requiring Recommendations.	itions and the po offsite Protectiv	etential for a e Action		•	
·		1.6.3	The barriers presently affected Include a review of Emergence cause an upgrade in emergence	l/threatened and y Action Levels y classification.	the prognosis. , which could			

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		Deputy EOF Dir	rector		
Data Sh	eet 1	Deputy EOF Direct	tor Checklist		Page 2 of 9
n					Time
1.7	Provide o available	ngoing updates to EOF personnel	l, as informati	on becomes	i .
1.8	Verify th Emergen required 1.	at 4 Offsite Field Team Members cy Operations Facility activities. 7 to activate the Emergency Operati	are available This is minim ions Facility, s	to support um staffing see Addendum	
1.9	If Emerg within ap Assistant verify wł	ency Response Organization perso proximately 1 hour of the initial c Support Organization Director to ether the primary is still respondin	onnel have no call-out, then o contact an al ng.	t arrived lirect the ternate or	· · · · · · · · · · · · · · · · · · ·
1.10	Consult special a	vith the Radiological Director to c ctions should be taken at the Visite	letermine who ors Center (if	ether any open):	
	1.10.1 Ir ic	form the Emergency Director of a entified for the Visitors Center.	any special ac	tions	
	1.10.2 C c aj	ontact the Visitors Center and info ondition. Provide any special instr opropriate.	orm them of t uctions deterr	he emergency nined	
1.11	As time p Chronolo be listed	permits, begin placing information by Status Board. Provide information on the Board.	n on the Major ation on an or	r Events agoing basis to	· ·
1.12	Contact (provide y Matagore	he Matagorda County Emergency our telephone number as an infor la County EOC Liaison arrives.	Management mation contac	Director and at until the	
1.13	Contact of Texas until the	he Duty Officer, Division of Eme and provide your telephone numb State of Texas EOC Liaison arrive	ergency Manag per as an infor es.	gement, State mation contact	

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	• .	5	Deputy EOF Director	·	
Data	a Sheet	1	Deputy EOF Director Checklist		Page 3 of 9
ction	<u>^</u> ;				Time
	1.14	When Opera Opera	the Matagorda County EOC Liaison arrives at the Er ations Center and establishes contact with the Emergentions Facility, provide a briefing of the current situations facility.	nergency ncy on.	
	1.15	When Opera Emerg situati	the State of Texas EOC Liaison arrives at the State E tions Center in Austin and establishes contact with th gency Operations Facility, provide a briefing of the cu ion.	Emergency le Irrent	:
2.0 [·]	SECU	IRITY I	EVENT	•	•
	2.1	DISC TSC S	USS with EOF Director and ENSURE contact is mad Security Manager. VERIFY:	le with the	• • • • •
		2.1.1	Understanding of the threat made against STP.		
	÷	2.1.2	Communications are established between STP Secu Matagorda County Sheriff's Office.	urity and the	• • •
	*	2.1.3	STP is implementing the Safeguards Contingency P	Plan.	
	· .	2.1.4	Safe pathways are established for responding ERO/ through potentially hazardous areas. Pay particular safe pathways to Emergency Response Facilities.	Station Staff attention to	· · · · · ·
	2.2	DISC	USS the following with the EOF Director:		•
		2.2.1	The Licensing Director establishes contact with the Operations Center, NRC Region IV, and the NRC I Inspector to ensure they have been notified.	NRC Resident	
		2.2.2	The Site Public Affairs Coordinator coordinates with Emergency Director or designee AND the TSC Sec Manager and issues a press release.	th the surity	
		2.2.3	TSC Manager and Emergency Director discuss / de early staffing of the STP Emergency Response Faci	termine any ilities.	
		2.2.4	TSC Manager and Emergency Director discuss / de early dismissal plan.	termine any	
	2.3	Conta arriva	ict the Security Manager and discuss/coordinate Law I onsite.	Enforcement	

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			Deputy EOF Director	·····		
Data	a Sheet I	1	Deputy EOF Director Checklist	· · ·	Page 4 of 9	
						•
3.0 [±]	SITE I	EVA	ACUATION		: .	
	3.1	Co Di	oordinate with the Assistant TSC Manager and co rector responsibilities in 0ERP01-ZV-IN05, Site	mplete Deputy EOI Evacuation.	F. N/A	ب <u>ب</u>
4.0	SEVE	RE	WEATHER		· '2	{ .
	4.1	Pe: flo	riodically contact the National Weather Service f ooding conditions.	or updates on	N/A	a v National de la companya de la company La companya de la comp
	4.2	Re any Op	view 0PGP03-ZV-0001, Severe Weather Guideli y special precautions should be implemented for perations Facility.	ines to determine if the Emergency	N/A	
	4.3	En off	sure Radiological Director has implemented prot fsite Field Teams.	ective measures for	N/A	:.
5.0	ACTIV	VAT	TION OF THE FEDERAL RESPONSE CENTER	ર		: .
	5.1	WI Fee to : and	hen notified of the arrival of federal agency perso deral Response Center, direct the Federal Respon report to the Bay City Convention Center to assis d logistics.	onnel to activate the se Agency Liaison at with activation	N/A	
	5.2	Ke Fe	ep the Emergency Director advised of the status deral Response Center.	of activation of the	N/A	•

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		Deputy EOF Dire	ector	•		
Data Sheet 1		Deputy EOF Directo	r Checklist		Page 5 of	9
<u>Action</u>			·		Time	
6.0	TOXIC GAS/ FACILITIES	CHEMICAL RELEASE FROM NEA	RBY CHEMICA	L	х	:
•	6.1 Move the En	any personnel in or outside the Nucle bergency Operations Facility.	ar Training Facilit	y into	N/A	
	6.2 Verify Recirc	the Radiological Director has switcher ulation Mode.	ed the ventilation (t o	. N/A	
	6.3 Ensure offsite	Radiological Director has implemen Field Teams as necessary.	ted protective mea	sures for	N/A	· · · ·
7.0	AIRCRAFT C	RASH ACTIVITIES			•	• •
·	7.1 If an A Room ZO-00	ircraft Crash is inside the Protected A and/or Technical Manager in implem 07, Aircraft Crash Onsite.	Area, Assist the Co enting procedure (ontrol DPGP04-	N/A	
	7.2 If an A Protec Manag Aircra	ircraft Crash is in the Owner Control ted Area, then inform the Control Roc er you will be implementing procedu ft Crash Onsite.	led Area but outsi om and/or Technic re 0PGP04-ZO-00	de the cal 007,	N/A	• • • * • • • *
8.0	EVACUATIO	N OF THE EMERGENCY OPERAT	TIONS FACILITY			
	8.1 Inform Emerg	the Assistant TSC Manager of the pl ency Operations Facility.	ans to evacuate th	e	N/A	: :
	8.2 Direct and Fe Opera	the Offsite Agency Communicator to deral Liaisons of the plans to evacuat ions Facility.	inform the Count e the Emergency	y, State,	N/A	• •
	8.3 Collec	t the following:		,		
	821	Completed loss and shashlists		í -		

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		Deputy EOF Director	······	· · · · ·	
Data S	Sheet 1	Deputy EOF Director Checklis	st	Page 6 of 9	
Action				Time	
	8.3.2	Deputy EOF Director's Emergency Response	Manual.	N/A	
	8.3.3	Copy of the information from the Emergency (Facility Priority Tracking Status Board.	Operations	N/A	
	8.3.4	Follow any special precautions issued by the R Director.	Radiological	N/A	
	8.3.5	When directed by the Emergency Director, the Alternate Emergency Operations Facility.	en proceed to the	N/A	
	8.3.6	Upon arrival at the Alternate Emergency Oper implement 0ERP01-ZV-OF01, Alternate Emer Operations Facility Activation, Operation and	ations Facility, rgency Deactivation.	N/A	
	8.3.7	Upon arrival to the Alternate Emergency Oper reestablish contact with the Assistant TSC Ma	ations Facility, nager.	N/A .	
	8.3.8	Upon arrival at the Alternate Emergency Oper direct the Offsite Agency Communicator to co County, State, and Federal Liaisons and provid number for future contacts.	ations Facility, intact the de a telephone	N/A	
9.0 CO	NTINUIN	GACTIVITIES			
9.1	Coord Focus assisti correc	inate the activities of the Emergency Operation on providing support to the Technical Support ng in the evaluation of the situation including ic tive actions.	s Facility staff. Center and lentifying	N/A	
9.2	9.2 Maintain an ongoing chronology of key events through contact with the Assistant TSC Manager and from information obtained by the Emergency Operations Facility staff.			N/A	
9.3	Maint Cente	ain a file of documents received from the Techr r.	nical Support	N/A	
9.4	Provid and M	le response to requests for information from the latagorda County.	State of Texas	N/A	

	Deputy EOF Director		
Data She	eet 1 Deputy EOF Director Checklist	Page 7 of 9	
ion		Time	_
9.5	Upgrade the Emergency Classification status board as required.	N/A	
	NOTE		
. •	Equistar needs a minimum of 10 hours to shutdown.		:
	Celanese needs a minimum of 4 hours to shutdown.		
	Both facilities need as much time as possible to shutdown,		
	Preferably 48 hours, to avoid damage to their facilities.		
9.6	If the event is radiologically based, then discuss with the Radiological	N/A	-
,	Director the potential for the situation to escalate and impact	1	÷.,
	operations at either Equistar (7 mi. E) or Celanese (4.8 mi. NNE).	• . f	
	information on the situation. Provide a telephone number for updates.		
9.7	Ensure major event information is provided to the Status Board	N/A	
2	Keeper to be posted on the Major Events Chronology Status Board.		
9.8	Ensure key Directors keep current information flowing to the Status	N/A	
	Board Keeper.		•
· 9.9	Periodically meet with the Engineering Assistant, Support	N/A	•
	Organization Director, and Licensing Director to review the status of	$p_{i} \rightarrow 0$	
	notifications to offsite agencies and Nuclear Regulatory Commission.	· · · · ·	
9.10	Ensure that the information needed by the offsite agencies and Nuclea	r N/A.:-	
	Regulatory Commission is being provided in a timely manner.		
9.11	Provide information to the Status Board Keeper to update the EOF	N/A :	
	Priority Tracking and Protective Actions Implemented by Matagorda		
	and as priorities are changed by the Emergency Director's status briefing		
	9.11.1 Provide the Protective Actions implemented by Matagorda	N/A	
	County to the Assistant Technical Support Center Manager.		

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			Deputy EOF Director	-	· · ·	
Γ	Data She	et 1	Deputy EOF Director Check	list	Page 8 of 9	
<u>Action</u>	l				Time	_
10.0	RECO	OVERY A	CTIVITIES			
	10.1	Update t	the Emergency Classification Board.		N/A	
	10.2	Verify th Offsite N	he Engineering Assistant has initiated comp Notification Message Form.	letion of the	N/A	
	10.3	Provide i Events C	information to the Status Board Keeper to u Chronology Status Board.	pdate the Major	• N/A	
	10.4	Develop 0ERP01 List.	a list of activities and tasks that should be -ZV-RE02, Documentation, Form 1, Correc	completed using ctive Action Items	N/A	
	10.5	Collect t Review (Provide	the Corrective Action Items List from the E the lists with the Directors and assign priori the prioritized list to the EOF Director.	OF Directors. ities to tasks.	N/A	
	10.6	Assist in guidance	n the development of recovery plans and pro e in 0ERP01-ZV-RE01, Recovery Operation	ocedures using the ns.	N/A	. 1
11.0	TERN	AINATIO	NACTIVITIES		:	
	11.1	Update t	the Emergency Classification Board.		N/A	
	11.2	Verify th Offsite N	he Engineering Assistant has initiated comp Notification Message Form.	letion of the	N/A	
	11.3	Provide Assistan	a list of any supplies or forms needing reple at Support Organization Director.	enishment to the	N/A	
	11.4	Develop 0ERP01	o a list of activities and tasks that should be -ZV-RE02 Form 1, Corrective Action Item	completed using s List.	N/A	
	11.5	Collect a and logs	and organize in chronological order all docu s.	uments, checklists,	N/A	

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	Deputy EOF Director	
Data Sheet 1	Deputy EOF Director Checklist Page 9 of 9)
Action	Time	
11.6 Co Re Pr	ollect the Corrective Action Items List from the EOF Directors. N/A view the lists with the Directors and assign priorities to tasks. ovide the prioritized list to the EOF Director.	<u>.</u>
11.7 As Su Do	ssist the EOF Director in completing the Emergency Response N/A mmary report using the guidance in 0ERP01-ZV-RE02, ocumentation.	
11.8 Tu Er	rn over all documentation generated during the emergency to the N/A nergency Response Division.	
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STI:	31716431		OER	P01-7	ZV-EF04		Rev. 6	Page 1 of 10
				Technica	al Director		J	
	Quality	Non Sa	fety-Related		Usage: N/	A	Effective I	Date: 03/25/04
	Max Keyes			••••	N/A	· · · · · · · · · · · · · · · · · · ·	Emerger	ncy Response Division
	PREPARER	<u>.</u>	TECHNICAL	an an ann	USE	R		ANT ORGANIZATION
<u>Table</u> 1.0	of Contents Purpose and	d Scope						Page
2.0	Responsibi	lities		••••••				
3.0	References	•••••			••••••			
4.0	Procedure.							
5.0	Support Do	ocuments		ر . 	••••••			
	Addendum	1, Shift Tu	mover Briefi	ng				· · · · · · · · · · · · · · · · · · ·
	Addendum	1, Shift Tu	mover Briefi	ng	:			•••

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			Technical Directo	or	
1.0	Purp	ose and Sc	ope		
	1.1	This pro Emerge	ocedure specifies the actions to be comp ncy Operations Facility (EOF) during a	pleted by the Techn a declared emergeno	ical Director in the cy.
2.0	Resp	onsibilitie	S		
	2.1	The Tec	chnical Director is responsible for:		× .
		2.1.1	Coordinating the evaluation of plan fission product barriers.	it safety systems and	d the conditions of the
		2.1.2	Monitoring the Emergency Action in the emergency classification may	Levels (EALs) to de	etermine when changes
		2.1.3	Coordinating with the Radiological Recommendations (PARs) based or and the potential for a radiological	Director to determine the status of the fire release.	ine Protective Action ssion product barriers

- 2.1.4 Functioning as the primary technical interface with the NRC Reactor Safety Coordinator.
- 2.1.5 Advising the EOF Director on engineering issues.
- 2.1.6 Obtaining engineering information requested by EOF personnel.
- 2.1.7 Independently evaluating engineering activities to determine if the correct engineering priorities are established.
- 2.1.8 Providing technical assistance to the TSC.
- 2.1.9 Assisting in coordinating arrangements for obtaining contract engineering support.

3.0 References

- 3.1 STPEGS Emergency Plan
- 3.2 0ERP01-ZV-IN01, Emergency Classification
- 3.3 0ERP01-ZV-IN02, Notifications to Offsite Agencies
- 3.4 0ERP01-ZV-IN07, Offsite Protective Action Recommendations
- 3.5 0ERP01-ZV-RE01, Recovery Operations

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	- -			Technical Direct	or	· · · · · · · · · · · · · · · · · · ·	
-	· 3.6	0ERP01	-7V-RE02 Do	ocumentation	· · · ·	s s an	
	3.7	0PGP05	-ZV-0004. Em	ergency Plan Impleme	nting Procedure Us	sers Guide	į
	Droced	dura	,				•
4.0	A 1	Whon re	anonding to th	e Emergeneu Oneratio	na Eagility implam	ant Data Sheat 1	
	- 4.1	Technic	al Director Che	ecklist, Step 1.0 Initial	Activities.	ent Data Sheet 1,	ţ.
	·i	4.1.1	Insert the ti using the E	me an activity is compl mergency Action Log.	eted, for reoccurrin	ng activities, document	
÷ ,	4.2	Impleme the even	ent the appropr ts in progress.	iate portions of Data Sl	heet 1, Technical I	Director Checklist based or	n ₁₉₂ 5 Ng
	4.3	Use Add	lendum's and (Checklists to help direc	t emergency activi	ties.	ът.,
5.0	Suppo	ort Docum	ents	an a	· · ·		· · · ·
	5.1	Addend	um 1, Shift Tu	mover Briefing	•. •		ie .:
	5.2	Data Sh	eet 1, Technica	al Director Checklist			· .
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		•		Y. Andrewski	· · ·	. · · ·	
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			Technical Director		
	Addend	ium 1	Shift Turnover Briefi	ng	Page 1 of 1
1:0					
1.0	Provid	te a briefing	of the event to the relief person including	ng the following area	S:
	1.1	Basis of th	e current emergency classification on the	ie EALs of important	
	1.2	Status of the assessment	ts determined by the TSC.	afety systems, includi	ing core damage
	1.3	Completed	l checklists.		
•	1.4	Completed	i logs.		
	1.5	Recovery	plans developed and corrective action it	ems for plant recover	у.
•	1.6	Current sh	ift schedule.		
	1.7	Engineerir	ng activities in progress.		
2.0	Inform	n the follow	ing of the transfer of responsibilities to t	he oncoming shift re	placement.
	1.8	All EOF D	Directors		
	1.9	NRC Read	ctor Safety Coordinator		
	1.10	Technical	Staff		
	1.11	Technical	Manager		
	1.12	Engineerir	ng Supervisor		
	1.13	Update the	EOF Staffing Board.		
3.0	Docur your r	ment the tim eplacement.	e of turnover and the identity of your re Provide original log sheets to the Depu	lief on your Log and ty EOF Director.	provide copies to
4.0	Verify EPZ, 1 necess	y your teleph then provide sary.	none number on the shift schedule. If thi e an alternate telephone number for cont	s telephone number i act should evacuation	s inside the 10 mile 1 of the EPZ be
5.0	Take	a copy of yo	our shift schedule.		
5.0	If issu	ed a TLD, t	hen maintain custody of the TLD until 7	fermination or Recov	very.
7.0	Verify return Orien	y possession ing to the sit tation Coord	of a STPNOC Picture Badge for access te for the next shift or request a replacer linator.	through possible roa nent Picture Badge fi	dblocks when rom the Support
3.0	Inform when	n the individ leaving the	lual responsible for access control to the	EOF of the shift cha	inge and sign out

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•	Technical Director		· · · · ·
Data Sheet 1	Technical Director Checklist		Page 1 of 6

					•
		(Name)	(Date)	(Unit)	• •
Actio	<u>n</u>		• , .	Time	
1.0	INIT	IAL ACTIONS		• * : ·	
	1.1	Report to the EOF and sign in on the EO	F staffing board.		
	1.2	Ensure the following documents are avai	lable:	:	
	, , ,, ,	1.2.1 Technical Director's Emergency	Response Manual.		
• •		1.2.2 Technical Specifications (Record	s Room).	÷	
	1.3	Verify that the System Status Evaluator a arrived.	and the Technical Staff have		•
-	1.4	Review the status of the systems needed condition with the System Status Evaluat may occur and the impact on the overall condition.	to mitigate the emergency tor. Determine failure modes that effort to resolve the emergency	•	
	1.5	Contact the Engineering Supervisor:		• •	
		1.5.1 Obtain a status of engineering sug underway.	pport activities initiated and -		•.• •
	••••	1.5.2 Obtain a list of current engineerir	ng priorities.	· · · ·	i:
· ·	1.6	Assign the System Status Evaluator or T monitor the Integrated Computer System changes in key parameter values. Direct the Status Board Keeper to update the Co Board, and to trend other key parameters	echnical Staff personnel to (ICS) for adverse trends or the individual to provide data to ritical Safety Function Status s on the Trending Status Board.		
	1.7	Obtain the status of the unaffected Unit f the Control Room (CR) and record on th	from the Operations Manager in e Unaffected Unit Status Board.	:	• • •
•	1.8	Initiate an Emergency Action Log.			

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			Technical Director		
	Data S	heet 1	Technical Director Checklist		Page 2 of 6
Actio	n				Time
2.0	ASSE	SSMEN	IT ACTIONS		
	2.1	Review Emerge that the emerge Area Here met to annour	w the current technical parameters and 0ERP01-ZV gency Classification with the System Status Evalua e correct emergency classification was declared. D ency action levels (EALs) which would cause an e Emergency or General Emergency and the conditio Terminate or enter Recovery. Enter Step 6.0 if Re nced or Step 7.0 if Termination is announced.	V-IN01, tor to confirm Determine the escalation to Site ons which must be ecovery is	
	2.2	Evalua or wor monite	ate plant parameters to determine if plant condition rsening. Identify additional plant parameters that sh ored by the System Status Evaluator.	is are improving hould be	
	2.3	Brief t	he EOF Director.		<u> </u>
3.0	SPEC	IAL AC	TIONS		
	3.1	Deterr	nination of Core Damage:		
		3.1.1	If core damage is suspected, then contact the Tec and review the parameters indicating core damag	hnical Manager e.	
		3.1.2	Maintain periodic contact with the Technical Man current with the status of the core damage assess	nager to stay ment.	
		3.1.3	Monitor the status of the remaining barriers (RCS	S, Containment).	
		3.1.4	Consult 0ERP01-ZV-IN01, Emergency Classification should	ation to be escalated.	
		3.1.5	Periodically, or when parameters change, brief th Director on the status of core damage assessment	e Emergency t.	
	3.2	Earthc	luakes:		
		3.2.1	Verify with the System Status Evaluator the statu systems. Determine if any additional complication	ns of plant ons have occurred.	

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		Technical Director	····	· · · · · · · · · · · · · · · · · · ·	
Data S	Sheet 1	Technical Director Checklist		Page 3 of 6	
ion			· · ·	Time	•• ·
	3.2.2	Review the earthquake EALs with the System State	us Evaluator.	·	
	3.2.3	Brief the EOF Director.		X	
3.3	Securi	ty Threat:		•	
• .	3.3.1	With the Radiological Director, assess the potential Security threat to create or complicate a radiological	l for the al release.		n 127 <u>12</u> 87 17
	3.3.2	With the System Status Evaluator, identify vital eq could be at risk due to the Security threat.	uipment that	;	``````
- •.	3.3.3	Brief the EOF Director.			<u></u>
3.4	Contra	ct Engineering Support:	•• .	•	, • ·
	3.4.1	Coordinate with the Procurement/Resources Super contract-engineering support when requested from Manager or the Emergency Director.	visor to obtair the Technical	1 ÷	: · · · · ·
3.5	Evacu	ation of the EOF:			
	3.5.1	Collect all completed checklists, logs, forms, and the Director's Emergency Response Manual.	he Technical	# 	· · · · ·
•	3.5.2	Follow any special precautions issued by the Radic Director for proceeding to the Alternate EOF.	ological	s. 	
	3.5.3	Direct the System Status Evaluator, Technical Staf Engineering Assistant to gather their checklists, log Emergency Response Manuals.	f, and the gs, forms and		· · ·
	3.5.4	When directed by the EOF Director, then proceed to EOF.	to the Alterna	te	
3.6	Keep	he NRC Reactor Safety Coordinator briefed on the	following:		÷
	- 3.6.1	Status of the event classification and prognoses for	escalation.		
		ander (* 1995) 1995 - Standard Marine, frankrik forske forske 1995 - Standard Marine, forske forske forske forske forske			

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		Technical Director		
Data Sheet 1		Technical Director Checklist		Page 4 of 6
Action				Time
3.6.2	2 On equ	going/imminent damage to the facility includ ipment and safety features.	ing affected	
3.6.2	3 Pro	jected toxic or radiological release rate:		
	a. F	Prognosis for increasing/termination.		
	b. /	Assessment basis.	·	
	. c. I	Health effect/consequences to onsite/offsite pe	eople.	
	d. F	Iow many onsite/offsite people are/will be aftextent.	fected and to what	
3.6.4	4 Eve	ent control:		:
	a. V	When was control established, or what is the p pring the event under control.	planned action to	
	b. V	What actions are under way or planned?		
3.6.	5 On	site protective measures that have been taken	or planned.	
3.6.0	6 Off cou	fsite protective action recommendations made inty officials.	to the state and	
3.6.	7 Sta	tus of state, county, and federal responses.		
3.6.5	8 Sta	tus of the Joint Information Center.		
3.6.9	9 Sta act	tus of public information activities such as sin ivation, EAS broadcasts, or press releases.	ren/radio	
.0 ONGOING	ACTI	ONS		
4.1 Ensu Eva of th	ure tha luator he EOF	t fission product barrier trends identified by t that indicate a worsening condition are broug Director.	he System Status ht to the attention	
4.2 Peri 0ER Eva	odicall P01-Z luator.	ly compare plant conditions versus the EALs V-IN01, Emergency Classification, with the Verify the correctness of the current emerger	in System Status ncy classification.	

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			• <u> </u>	Tec	hnical Di	rector	l_				
	Data Sl	neet 1		Tech	hnical Dir	ector Ch	ecklist	· · · · · · · · · · · · · · · · · · ·	Pag	ge 5 of 6	
<u>ction</u>	l									Time	•
	4.3	Participate provide inf status and o	in the Eme ormation. I ongoing ac	ergency D Following tivities.	pirector st g the meet	atus brie ting, brie	fings. Be f your st	e prepared to aff on plant			_
	4.4	Ensure the including the Unit Status	technical s ne Critical Board.	tatus boai Safety Fu	rds and tr inction St	ending b atus Boa	oards are	e kept current, ne Unaffected	::	• • .	_
	4.5	Advise the	EOF Direg	tor on en	gineering	issues a	nd priori	ities.	:		-
	4.6	Obtain eng	ineering in	formation	n requeste	d by EO	F persor	mel.			_
	4.7	Periodicall evaluate TS are establis	y contact th SC enginee hed for eng	ne TSC En ring activ gineering	ngineerin vities to d tasks.	g Superv etermine	isor. Inc if the co	lependently prrect prioritie	5 ,		_
	4.8	Provide tec	hnical and	engineeri	ing assist	ance to th	ne TSC,	as requested.	·		_
Ň	4.9	Monitor en work scope planning fo normal ope	gineering a s that will r the restor ration.	activities i be necess ration effo	underway sary durin ort that w	y by the T g the Re ill be nee	SC and covery p ded to r	identify majo hase. Begin eturn the plan	r to 		
	4.10	Maintain a	n Emergen	cy Action	Log.	•	•		-		_
.0	SHIFT	CHANGE			·	•	·	1. J. C. M.			
	5.1	Upon arriv Addendum and the Eng	al of your s 1. Include gineering A	shift repla the Syste Assistant i	icement, o em Status in the brie	complete Evaluato fing.	all actions, the T	ons listed in echnical Staff		· · · · · ·	
.0	RECO	VERY ACT	IONS	•	• • •	. •	· · ·				
	6.1	Contact the priorities, a	Technical nd manpo	Manager wer.	and revi	ew engin	eering a	ctivities,			
	6.2	Discuss wi the Recove engineering function an Director. In the decisio	th the EOF ry phase and g should re d Engineer aform the T n.	Director nd determ main with ring Supe Fechnical	the engir nine whet h the TSC rvisor sho Manager	heering a her the re or whet ould repo and Eng	ctivities esponsib her the e ort to the ineering	needed during ility for engineering Technical Supervisor o	f		

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		Technical Director		
Data	Sheet 1	Technical Director Ch	necklist	Page 6 of 6
ction				Time
6.3	Contact the support is r	Technical Manager and determine if needed by the TSC during the recover	additional technical y phase.	
6.4	Develop a 0ERP01-Z copy of the	ist of activities and tasks that should b V-RE02, Form 1, Corrective Action It list to the Deputy EOF Director.	be completed using tems List, and provide	a
6.5	Assist in th guidance ir	e development of recovery plans and a 0ERP01-ZV-RE01, Recovery Opera	procedures using the tions.	
6.6	Maintain a	n Emergency Action Log.		
6.7	If a shift ch applicable Technical S	ange occurs, then brief your replacem sections of Addendum 1. Include the S Staff, and the Engineering Assistant in	nent based on the System Status Evaluato 1 the briefing.	or,
0 TER	RMINATION A	ACTIONS		
7.1	Develop a 0ERP01-Z copy of the	ist of activities and tasks that should l V-RE02, Form 1, Corrective Action It list to the Deputy EOF Director.	be completed using tems List, and provide	a
7.2	Provide a l Assistant S	st of any supplies or forms needing re upport Organization Director.	eplenishment to the	
7.3	Collect and logs.	organize in chronological order all de	ocuments, checklists a	nd
7.4	With the as write an Er 0ERP01-Z EOF Direc	sistance of the System Status Evaluat nergency Response Summary report u V-RE02, Documentation. Provide this tor.	for and Technical Staff using the guidance in s report to the Deputy	• • •
7.5	Turn over a Deputy EO	Il documentation generated during the F Director.	e emergency to the	

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~	Assembly and	d Accountability	· · · · · · · · · · · · · · · · · · ·	S.
Quality	Non Safety-Related	Usage: NA	Effective Date	e: 03/25/04
Max Keyes	N/A	N/A	Emergen	cy Response Division
PREPARER		USER	COGNIZA	NT ORGANIZATION
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Precautions an	d Limitations	2 2		
Responsibilitie	es			2
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Support Docu	ments			
Addendum 1 -	Assembly Areas and Coordin	ators		6
Addendum 2,	Assembly and Accountability	Flowchart		
Addendum 2, Data Sheet 1 -	Assembly and Accountability Security Manager Checklist	Flowchart		
Addendum 2, Data Sheet 1 - Data Sheet 2 -	Assembly and Accountability Security Manager Checklist Radiological Manager Check	Flowchart		
Addendum 2, Data Sheet 1 - Data Sheet 2 - Data Sheet 3 -	Assembly and Accountability Security Manager Checklist Radiological Manager Check TSC Manager Checklist	Flowchart		
Addendum 2, Data Sheet 1 - Data Sheet 2 - Data Sheet 3 - Form 1 - Miss	Assembly and Accountability Security Manager Checklist Radiological Manager Check TSC Manager Checklist ing Persons	Flowchart		
Addendum 2, Data Sheet 1 - Data Sheet 2 - Data Sheet 3 - Form 1 - Miss Form 2 - Man	Assembly and Accountability Security Manager Checklist Radiological Manager Check TSC Manager Checklist ing Persons	Flowchart		
Addendum 2, Data Sheet 1 - Data Sheet 2 - Data Sheet 3 - Form 1 - Miss Form 2 - Man	Assembly and Accountability Security Manager Checklist Radiological Manager Checkl TSC Manager Checklist ing Persons	Flowchart		
Addendum 2, Data Sheet 1 - Data Sheet 2 - Data Sheet 3 - Form 1 - Miss Form 2 - Man	Assembly and Accountability Security Manager Checklist Radiological Manager Checkl TSC Manager Checklist ing Persons	Flowchart		
Addendum 2, Data Sheet 1 - Data Sheet 2 - Data Sheet 3 - Form 1 - Miss Form 2 - Man	Assembly and Accountability Security Manager Checklist Radiological Manager Checkl TSC Manager Checklist ing Persons ual Accountability	Flowchart		
Addendum 2, Data Sheet 1 - Data Sheet 2 - Data Sheet 3 - Form 1 - Miss Form 2 - Man	Assembly and Accountability Security Manager Checklist Radiological Manager Checkl TSC Manager Checklist ing Persons ual Accountability	Flowchart		
Addendum 2, Data Sheet 1 - Data Sheet 2 - Data Sheet 3 - Form 1 - Miss Form 2 - Man	Assembly and Accountability Security Manager Checklist Radiological Manager Checkl TSC Manager Checklist ing Persons ual Accountability	Flowchart		

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Assembly and Accountability

1.0 Purpose and Scope

- 1.1 This procedure describes the actions necessary to perform assembly and accountability for the Protected Area.
- 1.2 This procedure implements the requirements of the South Texas Project Electric Generating Station (STPEGS) Emergency Plan specific to Assembly and Accountability.
- 1.3 This procedure is to be implemented whenever a situation occurs in which verification of the location and safety of personnel within the Protected Area is necessary.
- 1.4 This procedure may be implemented at any time under the authority of the Emergency Director, and is required to be implemented for a Site Area or General Emergency.

2.0 Definitions

- 2.1 ASSEMBLY AREA COORDINATOR: Employee(s) designated to control a specific assembly area. Assembly Area Coordinators are identified in Addendum 1, Assembly Areas and Coordinators.
- 2.2 PROTECTED AREA: The area within the physical barrier surrounding the power block of Unit One and Unit Two to which access is controlled.

3.0 Precautions and Limitations

- 3.1 Accountability shall be completed within 30 minutes of sounding the assembly alarm. (CR 90-518)
- 3.2 Visitors in the Protected Area shall remain the responsibility of their escort during assembly and accountability. Escorts assigned responsibilities as part of the Emergency Response Organization may re-assign visitors to other qualified escorts.
- 3.3 In the event accountability cardreaders or the security system fails, accountability shall be completed manually.

4.0 Responsibilities

- 4.1 The Shift Supervisor is responsible for ensuring implementation of this procedure until the Technical Support Center assumes command and control.
- 4.2 The TSC Manager is responsible for ensuring implementation of this procedure, once the TSC assumes command and control.
 - 4.2.1 The TSC Manager is responsible for the overall coordination during search and rescue activities.

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			Assembl	y and Accountabil	ity	····		
	4.3 The Assistant TSC Manager is responsible for the overall coordination of this procedure and the tracking of activities to ensure all actions are completed.							
	4.4 The Control Room Onsite Communicator or Security Manager is responsible to make the page announcements to initiate accountability.							
	4.5	The Sec and ens made.	urity Manager is respon uring the public address	sible for developing announcements rela	the list of personnel r tive to assembly and a	not accounted for, accountability are		
		4.5.1	The Acting Security until the Technical S	Manager is respons Support Center is act	ible for Security Mana ivated.	ager activities		
•	4.6	The Rad emerger	liological Manager is re acy is complicated by ra	sponsible for verify diological condition	ing habitability of asse is, and for determining	mbly areas if the assembly routes.		
		4.6.1	The Acting Radiolog activities until the Te	gical Manager is res echnical Support Ce	ponsible for Radiologi nter is activated.	cal Manager		
	4.7	The Rac center is	liological Manager is re evacuating personnel n	sponsible for recom nay become contam	mending activation of inated.	a reception		
	4.8	Protecte within t complet	d Area Assembly Area heir assembly area card ing manual accountabil	Coordinators are res in on the accountab ity.	sponsible for ensuring ility cardreaders or if 1	all personnel necessary		
i .0	Proce	dure			· · · ·	:		
· . ·	5.1	If a Site of locat assemb situation which r	Area or General Emerg on and safety of person y and accountability un a. This may include a fin novement of people wor	gency is declared, or nel within the Prote less assembly would re near an assembly uld be hazardous, or	a situation occurs in v cted Area is necessary d place personnel in a v area, a severe weathe an ongoing Security t	which verification , then implement more hazardous r situation in hreat.		
	5.2	Personr proceed plant in assigned perform telepho	el performing work acti to an assembly area via an unsafe condition, res l emergency response a ed through contact with ne.	ivities when the asse a designated route sult in a personnel h ctivity. For these si a Security or the Ope	embly alarm sounds sh unless terminating the azard, or the individua tuations, accountabilit erations Support Cente	all immediately work will put the l is part of an y shall be er via radio or		

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Assembly and Accountability

- 5.3 Personnel working in the Radiologically Controlled Area (RCA) shall report to the 41' RCA Access Control Point. Personnel shall then exit the RCA using normal contamination control methods, log out of the RCA and card in on the accountability cardreader. If arrival at the assembly area will require more than 20 minutes, then contact Security.
- 5.4 Security Manager, implement Data Sheet 1, Security Manager Checklist.
 - 5.4.1 If the accountability cardreaders or security system fails, then implement manual accountability.
 - a. Initiate a Sweep inside the Protected Area.
- 5.5 If the Technical Support Center is not activated, the Acting Security Manager shall implement steps 4.0-8.0 of Data Sheet 1, Security Manager Checklist.
- 5.6 Radiological Manager, implement Data Sheet 2, Radiological Manager Checklist.
- 5.7 TSC Manager, implement Data Sheet 3, TSC Manager Checklist.
- 5.8 Protected Area Assembly Area Coordinators should ensure that personnel promptly card in and remain in their assembly area until accountability is complete or logged out of an area with an intended destination.
 - 5.8.1 Ensure all personnel assembled inside the Protected Area sign-in on Form 2, Manual Accountability.
 - 5.8.2 Forward completed Form 2, Manual Accountability within 20 minutes to the Security Force Supervisor.

6.0 References

- 6.1 STPEGS Emergency Plan
- 6.2 0PGP05-ZV-0004, Emergency Plan Implementing Procedure Users Guide
- 6.3 0ERP01-ZV-IN05, Site Evacuation
- 6.4 CR 90-518, NRC Inspection Report 90-10-05 LCTS 9000791-936

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7.	l Adden	dum 1, Assem	bly Areas a	and Coordinators		•	3 5 1	
· 7.2	2 Adden	dum 2, Assem	bly and Ac	countability Flowchar	t e			
7.	3 Data S	heet 1, Securit	y Manager	Checklist	· · ·	e ą	¥;	۰, ۱
7.4	4 Data S	heet 2, Radiol	ogical Man	ager Checklist		,	а. •	
7.	5 Data S	heet 3, TSC M	lanager Che	ecklist		. ·		
7.0	6 Form	l, Missing Per	sons			 ;		a,
7.	7 Form 2	2, Manual Acc	ountability) }		÷ .'	: :	:
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		Α	ssembly and Accoun	tability	
	Addendum 1	I	Assembly Areas and C	oordinators	Page 1 of 1
	ASSEMBLY GROUP	ASSEMBLY AREA	ASSEMBLY AREA COORDINATOR	TELEPHONE NUMBER	ACCOUNTABILITY METHOD
1	Personnel exiting RCA	41Foot RCA Access Control Point	HP Supervisor/ Designee	6347 (U1) 6339 (U2)	Accountability Cardreader
2	Assigned Control Room Personnel	Control Room	Shift Supervisor	8614 (U1) 7953 (U2)	Accountability Cardreader
3	TSC Staff	TSC	Security Manager	8826 (U1) 8721 (U2)	Accountability Cardreader
4	OSC Staff	OSC	OSC Coordinator	8899	Accountability Cardreader
5	Security Personnel	Security Duty Stations	Security Force Supervisor	7143	Report to CAS/SAS Phone or Radio
6	ERO Personnel	Maintenance Operations Facility (MOF) Gator Grill	As Assigned by the OSC Coordinator	6122 6574	Accountability cardreaders
7	Personnel Exiting East Gatehouse	Nuclear Support Center (NSC)	Designated by the Emergency Communications Directory	Designated by the Emergency Communications Directory	N/A
8	Personnel Exiting West Gatehouse	Building 52 Steam Generator Test	Designated by the Emergency Communications Directory	Designated by the Emergency Communications Directory	N/A



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Assembly and Accountability							
Data Sheet 1	Security Manager Checklis	t	Page 1 of 1				

(Unit) (Date) (Name) Action Time NOTE The Acting Security Manager is responsible for completing steps 5.0-9.0 of the Security Manager Checklist until the Technical Support Center is activated. 1.0 Determine wind direction locally or from the Radiological Manager 2.0 ÷ , Sound the assembly alarm for about 10 seconds and make the appropriate Site Announcement identified in Addendum 2, Assembly and Accountability Flowchart. 3.0 Direct the Security Force Supervisor to open the West Gatehouse for exiting personnel if applicable. 4.0 Approximately every 5 minutes repeat the assembly alarm and announcement until accountability is complete. 5.0 IF the Security Computer System fails, THEN initiate a Protected Area Sweep to ensure all personnel are complying with the assembly and accountability announcement, use Operations Support Center personnel as available. 6.0 Assembly Area Coordinators are listed in Addendum 1. If, the accountability cardreaders or security system failed, then implement manual accountability using Form 2. Inform the Assistant TSC Manager (or Shift Supervisor) when completed.

- 7.0 Halt ingress to the Gatehouses, except for Emergency Response Organization (ERO) personnel, NRC, or as approved by the Emergency Director. Inform the Assistant TSC Manager (or Shift Supervisor) when completed.
- 8.0 Approximately 20 minutes after the sounding of the assembly alarm, contact the Security Force Supervisor and request a list of any missing persons using Form 1.
- 9.0 When appropriate, and if necessary return Gatehouse portal radiation monitors to normal operating conditions with assistance from Radiation Protection. Inform the Assistant TSC Manager (or Shift Supervisor) when completed.

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•	· · · · · · · · · · · · · · · · · · ·	<u> </u>	ssembly and Accountabili	ty		
·	Data Sheet 2		Radiological Manager Che	cklist	Page 1 of 1	
		•••			1 <u>1</u> 111111111	
	(Name)	<u> </u>	(Date)		(Unit)	_
<u>Actio</u>	<u>n</u>				Time	
r						- -]
	· -	. 4	NOTE	· · · ·		
The	Acting Radiologic	al Manager is re	esponsible for completion o	f the Radiological	Manager Checklist	
until	the Technical Sup	port Center is a	ctivated.	.: V		
1.0	If assembly and a required, then dis to monitor exitin	accountability r spatch technicia g personnel.	adiation protection coverag in(s) to the appropriate Gate	e is ehouse		gar ya Giber ya Ali ali ali ali
2.0	If the event involves radiological problems, then verity habitability of the assembly areas. Inform the Assistant TSC Manager (or Shift Supervisor) when completed.					
3.0	IF the Radiologic is planned after a appropriate steps	cal Director is u ssembly and ac in procedure 0	navailable AND a site eva countability, implement ERP01-ZV-IN05, Site Eva	cuation	· · · · · · · · · · · · · · · · · · ·	
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		Assembly and Accountability		
Data	a Sheet 3	TSC Manager Checklist		Page 1 of 1
	(Name)	(Date)		(Unit)
<u>lction</u>				Time
		NOTE		
The Shift Support (Supervisor is respo Center is activated.	onsible for completion of the TSC Manag	ger Checklist un	til the Technical
.0 Re Se Su to	view Form 1, Missi curity Manager, and pervisor if TSC is n take, including:	ng Persons with the Radiological Manag Assistant TSC Manager (Security Force ot activated) and determine the next activ	er, e ons	
1.1	Making PA an missing person	nouncements requesting callback from the (s).	ne 	
1.2	Requesting inf areas concerning	formation from personnel at the assembly ng the missing person(s).	,	
1.3	el to	<u> </u>		
.0 Co un	ntinue to coordinate til compete.	e the effort to locate all missing person(s)	
.0 Im	plement 0ERP01-Z nditions.	V-IN05, Site Evacuation, as appropriate	for	

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Assembly and Accountability							
Form 1	Missing Persons		Page 1 of 1				

To be completed by Security and provided to the TSC Manager (or Shift Supervisor) within 30 minutes of sounding the assembly alarm.

The following persons are considered Missing Persons:

:

BADGE #	NAME	LAST LOCATION	ASSEMBLY AREAS CHECKED
• • •	e de la companya de l La companya de la comp		•••
			· ·
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		·•	<i>.</i>
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		1	
		·	

Completed by: _____ (Name / Title)

Date: _____ Time:

When competed, this record shall be retained in accordance with the Document Type List (DTL)

		10.4	Der. 10	Page 12 of 12		
		<u>104</u>	Rev. 10			
	Assembly and A					
Form 2	Manual Ac	countability		Page I of I		
Assembly Area:		Date:	<u> </u>			
If the cardreader fails, the Form within 20 minutes of	en the Assembly Area Coordin of sounding the assembly alarr	ators within th n and provide i	e Protected Area t to the Security	a complete this / Force Supervisor.		
The following personnel are accounted for: Page of						
	NAME			BADGE NUMBER		
				·		
				<u>_</u>		
	<u> </u>					

Completed by:

Assembly Area Coordinator

When competed, this record shall be retained in accordance with the Document Type List (DTL)

SO	UTH TEXAS	PROJECT E	LECTRIC GENERATI	NG STATION	D052'	
STI 31716433		0ERP01-ZV-SH01		Rev. 19	Page 1 of 33	
	· · · ·	1 85 7 2 97 1	Shift Supervisor			
Quality	Non Safety-Related		Usage: N/A	Effective Date	: 03/25/04	
Max Keyes		N/A	N/A	Emo	ergency Response Division	
PREPARER	· · · · -	TECHNICAL		· ·	COGNIZANT ORGANIZATION	

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	Addendum 4, Protective Response Zones	9
	Addendum 5, Assembly and Accountability Flowchart	10
	Data Sheet 1, Unusual Event Checklist	
	Data Sheet 2, Alert Checklist	
	Data Sheet 3, Site Area Emergency Checklist	
	Data Sheet 4, General Emergency Checklist	
	Data Sheet 5, Termination Checklist	

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1.0 Purpose and Scope

1.1 This procedure specifies the actions to be completed by the Shift Supervisor in the Control Room during a declared emergency.

2.0 Responsibilities

- 2.1 The Shift Supervisor of the affected Unit is responsible for:
 - 2.1.1 Recognizing, classifying and declaring the emergency.
 - 2.1.2 Assuming the responsibilities and authorities of the Emergency Director until relieved by the TSC Manager or EOF Director.
 - 2.1.3 Completing notifications and Protective Action Recommendations (PARs) to offsite agencies until relieved of Emergency Director responsibility and authority.
 - 2.1.4 Directing initial onsite emergency response activities.
 - 2.1.5 Monitoring plant conditions for changes in emergency action levels (EALs) and emergency classification.
 - 2.1.6 Directing Control Room response to mitigate the emergency condition.
 - 2.1.7 Approving departures from license conditions per 10CFR50.54(x) for Control Room Operator actions and equipment manipulations.
 - 2.1.8 Directing notification of the Emergency Response Organization (ERO), until relieved of Emergency Director responsibility and authority.
 - 2.1.9 Approving, or delegating approval of, press releases prior to issuance until relieved of Emergency Director responsibility and authority.
- 2.2 The Shift Supervisor of the unaffected Unit is responsible for:
 - 2.2.1 Assuming the responsibilities and authority of Emergency Director if the Shift Supervisor of the affected Unit is unable to assume or continue to perform the duties of the Emergency Director.
- 2.3 The Unit 1 Shift Supervisor is responsible for:
 - 2.3.1 Assuming the responsibilities and authorities of Emergency Director for events common to both Units.

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- 3.1 STPEGS Emergency Plan
- 3.2 0ERP01-ZV-IN01, Emergency Classification
- 3.3 0ERP01-ZV-IN02, Notifications to Offsite Agencies
- 3.4 0ERP01-ZV-IN03, Emergency Response Organization Notification
- 3.5 0ERP01-ZV-IN04, Assembly and Accountability
- 3.6 0ERP01-ZV-IN05, Site Evacuation
- 3.7 0ERP01-ZV-TS01, TSC Manager
- 3.8 0ERP01-ZV-RE02, Documentation
- 3.9 0POP04-ZO-0004, Personnel Emergencies
- 3.10 0POP02-HE-0002, Technical Support Center HVAC System
- 3.11 0PGP09-ZA-0002, Fitness for Duty Program
- 3.12 0ERP01-ZV-TP03, Severe Accident Management
- 3.13 NRC Inspection Report 90-10-03 (LCTS #9000789-936)
- 3.14 0PGP05-ZV-0004, Emergency Plan Implementing Procedure Users Guide

4.0 Procedure

- 4.1 If an Unusual Event or higher emergency classification is declared, implement the appropriate Data Sheet (1, 2, 3, or 4) based on the emergency classification declared. Use these Data Sheets to direct emergency activities.
- 4.2 If the emergency classification changes, then terminate completion of the current Data Sheet and initiate a new Data Sheet (2, 3, 4, or 5) based on the new emergency classification.
- 4.3 Request a licensed Reactor Operator from the unaffected Unit (if available) be dispatched to assist.
- 4.4 Consider restricting hand held radio transmissions during security events that include explosive or electronic controlled devices.

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4.5	Assume Director The resp	the responsibilities and authorities of the Emergency Director. The Emergency is responsible for making certain key decisions and ensuring their implementation. onsibilities which CANNOT be delegated include:
	4.5.1	Declaring a new emergency classification.
	4.5.2	Approving Protective Action Recommendations (PARs) issued to State and County authorities.
	4.5.3	Approving required notifications to the State and County.
	4.5.4	Approving exposures in excess of 10CFR20 limits and authorizing the use of Potassium Iodide (KI).
	4.5.5	Approving departure from license conditions per 10CFR50.54(x).
	4.5.6	Declaring entry into Severe Accident Management Guidelines.
4.6	The follo	owing Emergency Director responsibilities and authorities MAY be delegated:
	4.6.1	Requesting federal assistance.
	4.6.2	Approving press releases prior to issuance.
	4.6.3	Approving commitments to the NRC.
	4.6.4	Approving required communications with the NRC.
4.7	Upon arr 0ERP01-	ival of the TSC Manager or EOF Director, provide a turnover briefing per ZV-TS01, Data Sheet 2, Emergency Director Turnover Briefing.
4.8	When Er EOF Dir	nergency Director responsibilities have been transferred to the TSC Manager or ector, then the Shift Supervisor shall perform the following:
	4.8.1	Keep the Emergency Director informed of any plant conditions which could change the EAL or PARs.
	4.8.2	Provide ongoing assessment and interface with the Operations Manager, including recommending priorities for repair activities.
	4.8.3	Approve departure from license conditions per 10CFR50.54(x) for Control Room Operator actions and equipment manipulations.

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5.0 Supp	ort Document	IS		
5.1	Addendum	1, Protective Action Recommendation I	Flowchart	·
5.2	Addendum	2, Core/Containment Status Table	, ,	<u>a</u> *
5.3	Addendum	3, Radiological Release Table		
5.4	Addendum	4, Protective Response Zones		: :
5.5	Addendum	5, Assembly and Accountability Flowch	nart	
5.6	Data Sheet	1, Unusual Event Checklist	·	
5.7	Data Sheet	2, Alert Checklist		
. 5.8	Data Sheet	3, Site Area Emergency Checklist		•
5.9	Data Sheet	4, General Emergency Checklist		· · ·
5.10	Data Sheet	5, Termination Checklist	•••••	• • •
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	Shift Supervisor		
Addendum 1	Protective Action Recommendation F	lowchart	Page 1 of 1

<u>ENTRY REQUIREMENTS</u>: A General Emergency <u>AND</u> a radiological release is in progress <u>AND</u> time does not permit the calculation and evaluation of downwind doses <u>OR</u> personnel are not available to complete these calculations.



*To select the appropriate downwind sectors, refer to Addendum 4, Protective Response Zones.

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Addendum 2	Core/Containment Status Table	Page 1 of 1

ENTRY REQUIREMENTS: General Emergency AND a radiological release is NOT in progress.

Containment High Range Radiation Monitor (Rt-8050, 8051)	^(a) Hatch Monitor	Containment Pressure	^(b) Evacuation Protective Action Recommendations
Less Than 200 R/hr	Less Than 444 mR/hr	N/A	2 Mile Radius (Zone: 1)
200 B/br to 1 000 B/br	444 mB/hr to 2 222 mB/hr	< 5 psig	2 Mile Radius & 5 Miles Downwind
		≥ 5 psig	5 Mile Radius (Zones: 1,2,3,4,5)
		< 5 psig	5 Mile Radius & 10 Miles Downwind
Greater Than 1,000 R/hr	Greater Than 2,222 mR/hr	≥5 psig	10 Mile Radius (Zones: 1,2,3,4,5,6,7,8,9,10,11)

^(a) If the Containment High Range Radiation Monitors (RT-8050 and RT-8051) are out of service then use the Hatch Monitor.

^(b) To select the appropriate downwind evacuation zones and sectors refer to Addendum 4, Protective Response Zones.

NOTE: Assumptions used in the calculation of this table are in procedure 0ERP01-ZV-IN07, Offsite Protective Action Recommendations, Addendum 2.

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Addendum 3	Radiological Release Table	_	Page 1 of 1

ENTRY REQUIREMENTS: General Emergency <u>WITH</u> a radiological release in progress. (The below List is in order of preference based on available data)

			PROTECTIVE ACTION
	CONDITION		EVACUATE
I.	PROJECTED DOSES (For Short Duration Puffs only < 30 min)		
	a. Projected doses < PAG	a.	Two mile radius
	(1 rem TEDE or 5 rem Thyroid CDE)	b.	Two mile radius and zones in any sector projected to
	b. Projected doses \geq PAG		exceed PAG
	(1 rem TEDE or 5 rem Thyroid CDE)		
п.	PROJECTED DOSES BEYOND EXCLUSION AREA BOUNDARY		
	a. Projected doses < PAG (1 rem TEDE or 5 rem Thyroid CDE)	a.	Two mile radius
	 b. Projected doses ≥ PAG 0-5 miles (1 rem TEDE or 5 rem Thyroid CDE) 	р. С	to 5 miles Tive mile radius and zones in affected downwind sectors
	 c. Projected doses ≥ PAG 5-10 miles (1 rem TEDE or 5 rem Thyroid CDE) 	d.	to 10 miles Ten mile radius and affected downwind sectors in 2-mile
	 d. Projected doses ≥ PAG at greater than 10-miles and dose projection is supported by field team measurements (1 rem TEDE or 5 rem Thyroid CDE) 		increments until PAG is not exceeded.
ш.	DOSE RATES MEASURED AT PLUME CENTERLINE ON EXCLUSION AREA	a.	Two mile radius
	BOUNDARY	b.	Two mile radius and zones in affected downwind sectors
	a. <100 mR/hr		to 5 miles
	b. 100 mR/hr to 1000 mR/hr	c.	Five mile radius and zones in affected downwind sectors to 10 miles
	c. >1000 mR/hr		
IV.	RELEASE RATES		
	a. \geq EAL for General Emergency	a.	to 10 miles
v.	DEFAULT VALUES (Addendum 1)		
	a. General Emergency	a.	Five mile radius

To select the appropriate evacuation zones and downwind sectors refer to Addendum 4, Protective Response Zo

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	Shift Supervisor		· · · ·
Addendum 4	Protective Response Zones		Page 1 of 1

<u>AFFECTED ZONES</u>: Determine affected sectors and protective response zones and enter onto 0ERP01-ZV-IN02, Data Sheet 1, Offsite Agency Notification Message Form.

TWO MILE RADIUS: Protective Response Zone: 1

FIVE MILE RADIUS: Protective Response Zones: 1, 2, 3, 4 & 5

TEN MILE RADIUS: Protective Response Zones: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 & 11

WIND	AFFECTED	PROTECTIVE RESPO	NSE ZONE KEY HOLE
DIRECTION FROM(°)	DOWNWIND SECTORS	2 Mile Radius & 5 Miles Downwind	5 Mile Radius & 10 Miles Downwind
		Miles Downwind	. Whes Downwind
355-5	<u> </u>	1	1, 2, 3, 4, 5, 8, 9
6-16	<u> </u>	1	1, 2, 3, 4, 5, 8, 9
17-28	J, K, L	1	1, 2, 3, 4, 5, 8, 9
29-39	J, K, L, M	1,4	1, 2, 3, 4, 5, 8, 9
40-50	<u> </u>	1,4	1, 2, 3, 4, 5, 8, 9
51-61	<u> </u>	1, 4, 5	1, 2, 3, 4, 5, 8, 9, 10
62-73	L, M, N	1, 4, 5	1, 2, 3, 4, 5, 9, 10
74-84	L, M, N, P	1, 4, 5	1, 2, 3, 4, 5, 9, 10
<u> </u>	<u> </u>	1, 4, 5	1, 2, 3, 4, 5, 9, 10
96-106	<u> </u>	1, 4, 5	1, 2, 3, 4, 5, 9, 10, 11
107-118	N, P, Q	1,5	1, 2, 3, 4, 5, 9, 10, 11
119-129	N, P, Q, R	1,5	1, 2, 3, 4, 5, 9, 10, 11
130-140	P, Q, R	1,5	1, 2, 3, 4, 5, 10, 11
141-151	P, Q, R, A	1, 2, 5	1, 2, 3, 4, 5, 10, 11
152-163	Q, R, A	1, 2, 5	1, 2, 3, 4, 5, 10, 11
164-174	Q, R, A, B ·	1, 2, 5	1, 2, 3, 4, 5, 6, 10, 11
175-185	R, A, B	1,2	1, 2, 3, 4, 5, 6, 11
186-196	R, A, B, C	1,2	1, 2, 3, 4, 5, 6, 11
197-208	A, B, C	1,2	1, 2, 3, 4, 5, 6, 11
209-219	A, B, C, D	1,2	1, 2, 3, 4, 5, 6, 11
220-230	B, C, D	1,2	1, 2, 3, 4, 5, 6
231-241	B, C, D, E	1, 2, 3	1, 2, 3, 4, 5, 6, 7
242-253	C, D, E	1, 2, 3	1, 2, 3, 4, 5, 6, 7
254-264	C, D, E, F	1, 2, 3	1, 2, 3, 4, 5, 6, 7
265-275	D, E, F	1, 2, 3	1, 2, 3, 4, 5, 6, 7
276-286	D, E, F, G	1, 2, 3	1, 2, 3, 4, 5, 6, 7
287-298	E, F, G	1,3	1, 2, 3, 4, 5, 7
299-309	E, F, G, H	1,3	1, 2, 3, 4, 5, 7, 8
310-320	F, G, H	1,3	1, 2, 3, 4, 5, 7, 8
321-331	F, G, H, J	1,3	1, 2, 3, 4, 5, 7, 8
332-343	G, H, J	1	1, 2, 3, 4, 5, 7, 8
344-354	G, H, J, K	1 1	1, 2, 3, 4, 5, 7, 8, 9

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	Shift Supervisor		
Data Sheet 1	Unusual Event Checklist		Page 1 of 6
(N	ame) (I	Date)	(Unit)

Time

INITIAL ACTIONS
1.1 Announce to Control Room personnel the declaration of an Unusual Event and the assumption of Emergency Director responsibilities by the Shift Supervisor.
1.2 Ensure the following announcement (or similar announcement) is made over the public address system using the Unit Override button:

Action

1.0

CAUTION

Public Address Announcements may be changed or delayed due to the following conditions: Severe weather conditions which could threaten safe transport, a significant radiological hazard which could be encountered, a security threat occurring which could have an adverse impact on personnel moving around or leaving the site.

> (READ SLOWLY) "ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL. AN UNUSUAL EVENT HAS BEEN DECLARED IN UNIT(S) _____. ALL PERSONNEL SHOULD CONTINUE WITH THEIR NORMAL DUTIES UNLESS ASSIGNED EMERGENCY RESPONSE ACTIONS FOR AN UNUSUAL EVENT." (Optional: Give brief description of the event).

1.3 Direct the Control Room Communicators or available personnel to complete the required notifications as described in 0ERP01-ZV-IN02, Notifications to Offsite Agencies.

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<u> </u>			Shift Supe	ervisor			
	Data S	heet 1	Unusual Even	Unusual Event Checklist			
Acti	ion					Time	
		• No H	ARs are required for an Unu	sual Event.			
		• State decla notif	e/County shall be contacted wi aration of the Unusual Event t ications.	ithin 15 minute o make emerge	es of ency		
		• NRC of St decla avail State	C notification shall be made im ate/County notification and n aring the Unusual Event. If m able, NRC notification may be n /County notification.	imediately upon o later than one ore than one Co made concurrent	n completion e hour after mmunicator is tly with	5	
	1.4	As approp complete a	riate, upon the Onsite Commun sterisked steps of this Checklist	icator arrival, di t.	rect him/her to)	
*	1.5	Contact th	e Duty Operations Manager and	brief him/her o	n the situation	•	
*	1.6	Contact th	e Duty Plant Manager and brief	him/her on the	situation.	••• • • • • • • • • • • • • • • • • •	
*	1.7	Contact th the emerge	e STP Coordinator (QSE) and a ency.	dvise him/her o	f the nature of		
*	1.8	Contact th Emergenc	e Alarm Station Operator at exte y Notification and Response Sys	ension 6042 to v stem (ENRS) ac	verify tivation.		
*	1.9	If ENRS f manageme Manual.	ails, then direct the Onsite Com ant personnel listed in the Onsite	municator to not communicator	tify select Position		

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		· · · ·		OE	ERP01-	ZV-SH	HO1 pervisor		Rev.	19	Page 13	of 33
I	Data S	heet 1	•	· · · · ·	Unus	sual Eve	nt Check	list			Page 3	of 6
tio	n	•			• • • •							Time
	1.10	Ensu emer avail	re that the fo gency duty s able to respo	llowing ation c nd if ne	g on-shif or have c eeded:	t person ontacted	nel have l the Con	respon trol Ro	ded to th om and	eir are		•
		•	Onsite Com	munica	ator (Cor	ntrol Ro	om)	:	•	• •	• •	
		•	State/Count	y Com	municato	or (Cont	rol Room) ₹. 1			• ,	
	•	•	Acting Rad	ologica	al Manag	ger						•
		•	Shift Techn	ical Ad	lvisor (C	ontrol R	loom)	:				<i></i> .
		• .	Acting OSC	Coord	linator		· · · · · ·	• •	•, •			
		•	Acting Secu	rity M	anager							
	1.11	If eau conta activ	rly staffing o act the Alarn ation for Sta	f the Ei Statio fing E	mergency n Operat RO Faci	y Respo tor at ex lities.	nse Facil tension 6	ities is 042 and	desirable d reques	e, then t ENRS		
•	1.12	If an OSC Resp	y of the follo in accordan onse Organi	wing c ce with ation N	ondition procedu Notificati	s exist, t re 0ERI on, Forn	hen cons 201-ZV-I n 1, Amp	ider est N03, Ei lifying	tablishin mergenc Informat	g the y ion:		:
		•	In-plant rad	ologic	al condit	ions are	deterior	ating;				
		•	Search and	rescue	efforts a	re neces	sary;	* • * •	•			
		•	Security the	eat is in	n progres	ss;			-	·		
		•	Offsite che operations;	nical p	lant relea	ase occu	rs which	may in	npact sit	e ,		
		•	Vital equip	nent in	the plan	nt is in a	degraded	l condi	tion;	•		
		•	Shift Super	visor ju	ıdgment.	•						

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Data Sheet 1		Sheet 1	Unusual Event Checklist		Page 4 of 6
Acti	on				Tim
2.0	SPECIAL ACTIONS				
	2.1	Consider restricting hand held radio transmissions during security events that include explosive or electronic controlled devices.			
	2.2	Early Dismissal of Non-Essential Personnel			
		2.2.1 Consider early dismissal of non-essential personnel for the following conditions:			
			• The event is declared due to radiolog the condition could worsen.	ical problems and	
			• A Security event is in progress and reference from the site would facilitate the abilit respond.	emoval of personnel ity of Security to	
			• Notification of severe weather has be could impact the safety of personnel	en received which onsite.	
			• Notification of an incident at a nearb has been received that could impact t	y chemical facility the site.	
			• An orderly shutdown of activities and personnel offsite is warranted.	d movement of	
			• A situation which has a significant point outside or hazardous conditions of the second statement of	otential to develop onsite exists.	
		2.2.2	Discuss with the Duty Operations Manage conducting early dismissal.	r the advisability of	<u></u>
		2.2.3	If early dismissal of non-essential personne Area is determined appropriate, then make announcement:	el in the Protected the following	

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	Shift Supervisor	
Data Sheet 1	Unusual Event Checklist	Page 5 of 6

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Action			Time
*		(READ SLOWLY) "ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL. THE EMERGENCY DIRECTOR HAS ORDERED THE EARLY DISMISSAL OF ALL NON-ESSENTIAL PERSONNEL. ALL MEMBERS OF THE EMERGENCY RESPONSE ORGANIZATION REPORT TO YOUR FACILITIES. ALL NON-ESSENTIAL PERSONNEL SHALL SECURE THEIR WORK AREA, INFORM THEIR SUPERVISOR OF JOB STATUS, AND EXIT THE SITE UNLESS DIRECTED OTHERWISE BY SUPERVISION. MONITOR LOCAL RADIO BROADCASTS FOR ADDITIONAL INFORMATION."	
*	2.2.4	If early dismissal of non-essential personnel in the Owner Controlled Area is determined appropriate, then contact the Security Force Supervisor (Acting Security Manager) and request notification of personnel in the Owner Controlled Area.	
2.3	Assem	bly and Accountability	
	2.3.1	Implement 0ERP01-ZV-IN04, Assembly and Accountability.	- <u></u>
	2.3.2	If the OSC has been activated, then instruct Plant Operators that have not been assigned tasks to proceed to the OSC for accountability and remain there to support OSC operations.	· · · ·
š	2.3.3	If persons are determined to be missing as a result of performing Assembly and Accountability, then contact the Duty Maintenance Supervisor (Acting OSC Coordinator) and provide names and last known locations of the missing persons. Direct the Duty Maintenance Supervisor (Acting OSC Coordinator) to form and dispatch Search and Rescue teams.	
2.4	Site Ev	vacuation	<i></i>
	2.4.1	Implement 0ERP01-ZV-IN05, Site Evacuation.	
2.5	Person	nel Emergencies	
	2.5.1	Implement 0POP04-ZO-0004, Personnel Emergencies.	LOG

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		Shift Supervisor		
Data	Data Sheet 1 Unusual Event Checklist		Page 6 of 6	
ction				Time
2.6	Potenti	al for Radiological Release Occurring or Imminer	nt	
	2.6.1	Place the affected Unit's TSC HVAC System in emergency/isolation mode or verify automatic to occurred using 0POP02-HE-0002, TSC HVAC	n transfer has C System.	
	2.6.2	Contact unaffected Unit's Shift Supervisor and placing the unaffected Unit's TSC HVAC in emergency/isolation mode.	l recommend	·
2.7	2.7 Toxic Gas/Chemical Release from Nearby Chemical Facilities			
	2.7.1	If time permits, then initiate 0ERP01-ZV-IN04 Accountability and 0ERP01-ZV-IN05, Site Eva	, Assembly and acuation.	
	2.7.2	Otherwise, announce over the public address sy personnel to seek shelter in buildings and turn systems. Direct the Security Force Supervisor Manager) to warn personnel outside the Protect	ystem for all off ventilation (Acting Security ted Area.	
0 ON	GOING A	ACTIONS		
3.1	Contin Emerge emerge	uously assess plant conditions against 0ERP01-ZV ency Classification, to determine if changes to the ency classification are warranted.	V-IN01, current	LOG
3.2	Evalua unnece	te the need for continued staffing of ERO position essary personnel to return to normal duties.	ns and release	LOG
3.3	Review	v and approve press releases as applicable.		LOG
	• N	Maintain an Emergency Action Log.		

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Data Sheet 2	Alert Checklist		Page 1 of 6
	· · · · · · · · · · · · · · · · · · ·		•

(Name)

(Date)

(Unit)

Time

Action

1.0 INITIAL ACTIONS

- 1.1 Announce to Control Room personnel the declaration of an Alert and the continuation (or assumption) of Emergency Director responsibilities by the Shift Supervisor.
- 1.2 Ensure the following announcement (or similar announcement) is made over the public address system using the **Unit Override** button:

CAUTION

Public Address Announcements may be changed or delayed due to the following conditions: Severe weather conditions which could threaten safe transport, a significant radiological hazard which could be encountered, a security threat occurring which could have an adverse impact on personnel moving around or leaving the site.

> (READ SLOWLY) "ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL. AN ALERT HAS BEEN DECLARED IN UNIT(S) _____. ALL DESIGNATED MEMBERS OF THE EMERGENCY RESPONSE ORGANIZATION REPORT TO YOUR FACILITY. ALL OTHER PERSONNEL ARE TO CONTINUE WITH THEIR NORMAL DUTIES UNLESS FURTHER INSTRUCTIONS ARE GIVEN." (Optional: Give brief description of the event.)

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<u> </u>			Shift Supervisor		
Da	Data Sheet 2 Alert Checklist		Page 2 of 6		
ction					Time
1	1.3	Direct the complete Notificati	e Control Room Communicators or available pe the required notifications as described in 0ERP ions to Offsite Agencies.	ersonnel to 01-ZV-IN02,	
		• No	PARs are required for an Alert.		
		• Sta dec	te/County shall be contacted within 15 minut laration of the Alert to make emergency noti	tes of the fications.	
		• NR of S dec NR not	C notification shall be made immediately up State/County notification and not later than o laring the Alert. If more than one Communica C notification may be made concurrently with S fication.	on completion one hour after ator is available, State/County	
		• Act the	ivate Emergency Response Data System (ERD) NRC Operations Center is notified of the Alert.	S) at the time	
1	1.4	As appro complete	priate, upon the Onsite Communicator arrival, d asterisked steps of this Checklist.	lirect him/her to	,
1	1.5	Contact t Emergen	he Alarm Station Operator at extension 6042 to cy Notification and Response System activation	verify	
1	1.6	Contact t	he Duty Operations Manager and brief him/her	on the situation	·
· 1	1.7	Contact t	he Duty Plant Manager and brief him/her on the	e situation.	
1	1.8	Contact t the emerged	he STP Coordinator (QSE) and advise him/her ogency.	of the nature of	
1	1.9	Ensure the emergence	at the following on-shift personnel have respon by duty station:	ded to their	
		• On:	site Communicator (Control Room)		
		• Sta	te/County Communicator (Control Room)		
		• EN	S Communicator (Control Room)		

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			Shift Supervisor	
I	Data S	heet 2	Alert Checklist	Page 3 of 6
ctio	n		· · · · · · · · · · · · · · · · · · ·	Time
		• Sh	ift Technical Advisor (Control Room)	
		• Ac	cting Radiological Manager	
		• Ao	cting OSC Coordinator	
).)	SPE	CIAL AC	TIONS	
	2.1	Conside that incl	er restricting hand held radio transmissions during security events ude explosive or electronic controlled devices.	LOG
	2.2	Early D	ismissal of Non-Essential Personnel	
		2.2.1	Consider early dismissal of non-essential personnel for the following conditions:	
			• The event is declared due to radiological problems and the condition could worsen.	
		•	• A Security event is in progress and removal of personnel from the site would facilitate the ability of Security to respond.	
			 Notification of severe weather has been received which could impact the safety of personnel onsite. 	
			• Notification of an incident at a nearby chemical facility has been received that could impact the site.	
			• An orderly shutdown of activities and movement of personnel offsite is warranted.	
			• A situation with a significant potential to develop into unsafe or hazardous conditions exists onsite.	
		2.2.2	Discuss with the Duty Operations Manager the advisability of conducting early dismissal.	

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		Shift Supervisor	·······	
Data	Sheet 2	Alert Checklist		Page 4 of 6
Action				Time
	2.2.3	If early dismissal of non-essential personnel in Area is determined appropriate, then make the announcement:	the Protected following	
*		(<u>Read Slowly</u>) "ATTENTION ALL PERSONN ATTENTION ALL PERSONNEL. THE EME DIRECTOR HAS ORDERED THE EARLY D ALL NON-ESSENTIAL PERSONNEL. ALL ESSENTIAL PERSONNEL SHALL SECURE AREA, INFORM THEIR SUPERVISOR OF J AND EXIT THE SITE UNLESS DIRECTED O BY SUPERVISION. MONITOR LOCAL RAI BROADCASTS FOR ADDITIONAL INFORM	NEL; RGENCY NSMISSAL OF NON THEIR WORK OB STATUS, OTHERWISE DIO MATION."	
*	2.2.4	If early dismissal of non-essential personnel in Controlled Area is determined appropriate, the Security Force Supervisor (Acting Security Ma request notification of personnel in the Owner	the Owner n contact the nager) and Controlled Area	
2.3	Asseml	bly and Accountability		
	2.3.1	Implement 0ERP01-ZV-IN04, Assembly and A	Accountability.	
	2.3.2	Instruct Plant Operators that have not been assi proceed to the OSC for Accountability and rem support OSC operations.	gned tasks to ain there to	
	2.3.3	If missing persons are discovered as a result of Assembly and Accountability, then contact the Maintenance Supervisor (Acting OSC Coordin provide names and last known locations of the persons. Direct the Duty Maintenance Supervis Coordinator) to form and dispatch Search and I	performing Duty ator) and missing sor (Acting OSC Rescue teams.	<u>.</u>
2.4	Site Ev	vacuation		
	2.4.1	Implement 0ERP01-ZV-IN05, Site Evacuation		

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		Shift Supervisor	• • • • • • • • •	
Data	a Sheet 2	Alert Checklist		Page 5 of 6
ion	• •	······		Time
2.5	Person	nel Emergencies	· .	
	2.5.1	Implement 0POP04-ZO-0004, Personnel Emerg	encies.	LOG
2.6	a Radiol	ogical Release Occurring or Imminent		,
	2.6.1	Place the affected Unit's TSC HVAC System in emergency/isolation mode or verify automatic tr occurred using 0POP02-HE-0002, TSC HVAC	ansfer has System.	2007) 2007 - 100
• • •	2.6.2	Contact the unaffected Unit's Shift Supervisor a placing the unaffected Unit's TSC HVAC in emergency/isolation mode.	nd recommend	·
. ·	2.6.3	Direct all Plant Operators to report to the 41'RC Control Point and obtain an electronic dosimete	CA Access r.	ту. 4. с. <u>— — — — — — — — — — — — — — — — — — —</u>
	2.6.4	Direct the Dose Assessment Specialist in the EC dose projections. If the Dose Assessment Speci available, then direct the Acting Radiological M perform dose projections.	DF to perform alist is not lanager to	· · · · ·
2.7	Toxic	Gas/Chemical Release from Nearby Chemical Faci	ilities	
	2.7.1	If time permits, then initiate 0ERP01-ZV-IN04, Accountability and 0ERP01-ZV-IN05, Site Eva	Assembly and cuation.	
	2.7.2	Otherwise, announce over the public address sy personnel to seek shelter in buildings and turn o systems. Direct the Security Force Supervisor (Manager) to warn personnel outside the Protected	stem for all ff ventilation Acting Security ed Area.	/
0]	NGOING A	ACTIONS		
3.1	l Contin Emerg	uously assess plant conditions against 0ERP01-ZV ency Classification, to determine if changes to the ency classification are warranted.	-IN01, current	LOG

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	Shift Supervisor						
Data Sheet 2	Alert Checklist		Page 6 of 6				

Acti	Time		
	3.2	Evaluate the adequacy of the current Operations staffing and request assistance from the unaffected Unit and/or call out additional personnel.	LOG
*	3.3	Make periodic site public address announcements on the status of the emergency including any radiological hazard precautions.	LOG
	3.4	Until relieved as the Emergency Director, update off-site agencies (State, County, BRC) about hourly (or more frequently if warranted) on the status of the emergency.	LOG
	3.5	Keep Plant Operators in the field advised of plant status and radiological conditions as applicable.	LOG
	3.6	Review and approve press releases as applicable.	LOG
		Maintain an Emergency Action Log.	
4.0	FOL MAI	LOWING EMERGENCY DIRECTOR TURNOVER TO THE TSC NAGER OR EOF DIRECTOR	
	٠	Maintain ENS communications with the NRC if requested.	
	•	Advise the Emergency Director of conditions which may change the emergency classification.	

• Periodically brief Control Room staff of the status of the emergency and ongoing repair efforts.

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Data Sheet 3Site Area Emergency ChecklistPage 1 of 5							

(Name)

Action

• • •

(Date)

(Unit) Time

1 11110

<u>NOTE</u>

Continue with this checklist only if the TSC Manager or EOF Director has <u>not</u> assumed Emergency Director responsibilities and authorities.

1.0 INITIAL ACTIONS

- 1.1 Announce to Control Room personnel the declaration of a Site Area Emergency (SAE) and the continuation (or assumption) of Emergency Director responsibilities by the Shift Supervisor.
- 1.2 Ensure the following announcement (or similar announcement) is made over the public address system using the Unit Override button:

CAUTION

Public Address Announcements may be changed or delayed due to the following conditions: Severe weather conditions which could threaten safe transport, a significant radiological hazard which could be encountered, a security threat occurring which could have an adverse impact on personnel moving around or leaving the site.

> (<u>READ SLOWLY</u>) "ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL. A SITE AREA EMERGENCY HAS BEEN DECLARED IN UNIT(S) ____."

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(Optional: Give brief description of the event.)

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Shift Supervisor								
Data Sheet 3	Site Area Emergency Chec	klist	Page 2 of 5					

Actio	<u>n</u>		Time
	1.3		
	1.4	Direct the Control Room Communicators or available personnel to complete the required notifications as described in 0ERP01-ZV-IN02, Notifications to Offsite Agencies.	
		• No PARs are required for a Site Area Emergency.	
		• State/County shall be contacted within 15 minutes of the declaration of the SAE to make emergency notifications.	
		• NRC notification shall be made immediately upon completion of State/County notification and not later than one hour after declaring the SAE. If more than one Communicator is available, NRC notification may be made concurrently with State/County notification.	
		• Activate Emergency Response Data System (ERDS) at the time the NRC Operations Center is notified of the Site Area Emergency, if not previously activated.	
	1.5	As appropriate, upon the Onsite Communicator arrival, direct him/her to complete asterisked steps of this Checklist.	
*	1.6	If not already accomplished, then contact the Alarm Station Operator at extension 6042 to verify Emergency Notification and Response System activation.	
	1.7	Instruct Plant Operators that have not been assigned tasks to proceed to the OSC for Accountability and remain there to support OSC operations. Ensure Plant Operators that remain under Control Room direction obtain an electronic dosimeter.	, <u></u> ,
*	1.8	Contact the STP Coordinator (QSE) and advise him/her of the nature of the emergency.	

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· · · · · · · · · · · · · · · · · · ·	Shift Supervisor	
Data Sheet 3	Site Area Emergency Checklist	Page 3 of 5

Actio	on .		Time
*	1.9	Verify that the following on-shift personnel have responded to their emergency duty station:	
	•	Onsite Communicator (Control Room)	
		State/County Communicator (Control Room)	\cdot ·
	* :	ENS Communicator (Control Room)	
		• Shift Technical Advisor (Control Room)	
		Acting Radiological Manager	
		 Acting Security Manager 	
	1.10	If the event is radiologically based and the TSC HVAC has not been transferred to emergency/isolation mode, Then:	
		1.10.1 Place the affected Unit's TSC HVAC System in emergency/isolation mode or verify automatic transfer has occurred using 0POP02-HE-0002, TSC HVAC System.	
*		1.10.2 Contact the unaffected Unit's Shift Supervisor and recommend placing the unaffected Unit's TSC HVAC in emergency/isolation mode.	
	1.11	If site evacuation has not been completed, then implement 0ERP01-ZV- IN05, Site Evacuation upon completion of Assembly and Accountability.	·
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Data Sheet 3	Site Area Emergency Checklis	st	Page 4 of 5

Acti	on			Time
2.0	SPE			
	2.1	Consid that inc	LOG	
	2.2	2.2 Personnel Emergencies		
		2.2.1	Implement 0POP04-ZO-0004, Personnel Emergencies.	LOG
	2.3	Radiolo	ogical Release Occurring or Imminent	
		2.3.1	Direct all Plant Operators to report to the 41' RCA Access Control Point and obtain an electronic dosimeter.	
		2.3.2	Direct the Dose Assessment Specialist in the EOF to perform dose projections. If the Dose Assessment Specialist is not available, then direct the Acting Radiological Manager to perform the dose projections.	
	2.4	Toxic (Gas/Chemical Release from Nearby Chemical Facilities	
*		2.4.1	If conditions did not permit Assembly and Accountability and Evacuation, announce over the public address system for all personnel to seek shelter in buildings and turn off ventilation systems. Direct the Security Force Supervisor (Acting Security Manager) to warn personnel outside the Protected Area.	
	2.5	Missin	g Persons	
*		2.5.1	If missing persons are discovered as a result of performing Assembly and Accountability, then contact the Duty Maintenance Supervisor (Acting OSC Coordinator) and provide names and last known locations of the missing persons. Direct the Duty Maintenance Supervisor (Acting OSC Coordinator) to form and dispatch Search and Rescue teams.	

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					Shift Sup	ervisor	- -			
	Data S	Sheet 3	:	Site Ar	ea Emerge	ncy Chec	klist			Page 5 of
	-									
Actio	n					•				Ti
3.0	ONC	GOING AC	TIONS							
	3.1	Continuo Emergence emergence	usly assess pl cy Classificat y classification	lant condi ion to det on are wa	tions again ermine if o rranted.	nst OERP(changes to)1-ZV- o the cu	IN01, irrent		L0
:	3.2	Evaluate assistance	the adequacy from the un	of the cu affected U	rrent Oper Jnit and/or	ations sta r call out a	ffing a additio	nd request nal person	nel.	L
*	3.3	Make per emergenc	iodic site put y including a	blic addre any radiolo	ss announ ogical haz	cements o ard precau	f the st itions.	atus of the	;	L
	3.4	Until relic County, I status of t	eved as the E BRC) about h the emergenc	mergency ourly (or y.	Director, more frequ	update of uently if w	f-site a varrant	gencies (S ed) on the	itate,	· L
		• Mai	ntain an Eme	ergency A	ction Log					
4.0	FOL MAI	LOWING I NAGER	EMERGENC	CY DIREC	CTOR TU	RNOVER	ΤΟΤ	HE TSC		
٠.	•	Maintain I	ENS commur	nications v	with the N	RC if requ	uested.			
	• ,.	Advise the emergency	e Emergency v classificatio	Director on.	of conditio	ons which	may c	hange the	. •	••
	٠	Periodical and ongoin	ly brief the C ng repair effo	Control Ro orts.	om staff o	of the statu	is of th ני	e emergen	cy	
	•	Keep Plan conditions	t Operators is as applicable	n the field e.	l advised c	of plant sta	atus an	d radiolog	ical	• • - -
	•	Review ar	nd approve pr	ress releas	es as appl	icable.				

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Shift Supervisor								
Data Sheet 4	General Emergency Check	dist	Page 1 of 5					

(Name)

Action

Time

(Unit)

<u>NOTE</u>

(Date)

Continue with this checklist only if the TSC Manager or EOF Director has <u>not</u> assumed Emergency Director responsibilities and authorities.

1.0 INITIAL ACTIONS

- 1.1 Announce to Control Room personnel the declaration of a General Emergency (GE) and the continuation (or assumption) of Emergency Director responsibilities by the Shift Supervisor.
- 1.2 Ensure the following announcement (or similar announcement) is made over the public address system using the **Unit Override** button:

CAUTION

Public Address Announcements may be changed or delayed due to the following conditions: Severe weather conditions which could threaten safe transport, a significant radiological hazard which could be encountered, a security threat occurring which could have an adverse impact on personnel moving around or leaving the site.

> (<u>READ SLOWLY</u>) "ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL. A GENERAL EMERGENCY HAS BEEN DECLARED IN UNIT(S) ____." (Optional: Give brief description of the event.)

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· ·				Shift S	pervisor			_	
Data Sheet 4 General Emergency Checklist						Page 2 of 5			
on ·									Time
1.3	If Asser Assemb 10 seco Addend	nbly and A ly and Acc nds and ma um 5, Asse	ccountabi ountabilit ke the app mbly and	lity has not y by sound propriate S Accountat	been comp ing the asse ite Annound bility Flowc	leted, th mbly al cement i hart.	nen impleme arm for abou dentified in	nt It –	
1.4	Direct t complet Notifica	he Control e the requi tions to Of	Room Co red notific fsite Ager	mmunicato cations as d ncies.	ors or availa escribed in	ble pers 0ERP0	onnel to 1-ZV-IN02,	_	
	• State/County shall be contacted within 15 minutes of the declaration of the GE to make emergency notifications.								
	• N of de N nc	RC notific State/Cou claring th RC notifica tification.	ation shal nty notifi e GE. If n tion may	Il be made ication and hore than o be made co	immediate I not later 1 ne Commun oncurrently	ly upor than on nicator i with Sta	a completion e hour after s available, ate/County	1	
	• A th ac	ctivate Em e NRC Ope tivated.	ergency R erations C	esponse D enter is not	ata System ified of the	(ERDS) GE, if 1	at the time not previousl	У —	: :.
1.5	Instruct the OSC Ensure an elect	Plant Oper C for Accou Plant Opera ronic dosin	rators that intability a ators that in neter.	have not b and remain remain und	een assigne there to su er Control	d tasks pport O Room d	to proceed to SC operatior irection obta) 1S. .in –	
1.6	PAR de indicati (PAGs) indicati	velopment ons that co . PARs sha ons.	is expecte nditions h all be deve	ed to be ma ave exceed eloped with	de promptl ed Protectiv in 15 minu	y follow ve Actio tes of in	ving on Guides itial		
	1.6.1	IF a radio permit th personne determin Addendu Flowchar	ological re e calculati l are not a e the Prote m 1, Initia t.	elease is in ion and eva vailable to ective Actional Protective	progress, <u>A</u> luation of c complete th on Recomm e Action Re	<u>ND</u> tim lownwin nese calo nendatio ecomme	e does not nd doses <u>OR</u> culations, the n using endation	en –	
	162	IF a radi	ological r e	lease is N	T in progr	ess TH	EN determi	ne .	

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Acti	on	<u> </u>			Time
		1.6.3	IF a radiological release <u>IS</u> in progress, <u>AND</u> S available, THEN obtain the Protective Action Recommendation from the printout.	STAMPEDE is	
		1.6.4	IF a radiological release is in progress, <u>AND</u> S <u>NOT</u> available, THEN use manual dose assess field readings, or release rates to determine the Action Recommendation using Addendum 3, F Release Table.	TAMPEDE is sment, actual Protective Radiological	
		1.6.5	IF dose assessment results indicate ≥ 1 rem TE Thyroid CDE (PAGs) are exceeded at 10 miles measurements verify projected dose, THEN re evacuation of 10 mile radius and downwind set than 10-miles in 2-mile increments until PAGs exceeded.	DE or ≥ 5 rem , and field team commend ctors greater are not	
		1.6.6	Determine affected downwind sectors and zone Addendum 4, Protective Response Zones.	es using	
	1.7	As app comple	ropriate, upon the Onsite Communicator arrival, on the asterisked steps of this Checklist.	direct him/her to)
*	1.8	If not a extensi activati			
*	1.9	Contac the emo			
*	1.10	Verify emerge	that the following on-shift personnel have respon ency duty station:	ded to their	
		• S	tate/County Communicator (Control Room)		
		• E	NS Communicator (Control Room)		
		• S	hift Technical Advisor (Control Room)		
		• A	cting Radiological Manager		
		• A	cting OSC Coordinator		
		• A	cting Security Manager		

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	Data S	heet 4	General Emergency Checklist	Page 4 of 5
ic	<u>n</u>			Time
	1.11	If the ev	vent is radiologically based:	
		1.11.1	Place the affected Unit's TSC HVAC System in emergency/isolation mode or verify automatic transfer has occurred using 0POP02-HE-0002, TSC HVAC System.	· · · · · · · · · · · · · · · · · · ·
		1.11.2	Contact the unaffected Shift Supervisor and recommend placing the unaffected Unit's TSC HVAC in emergency/isolation mode.	• . •
		1.11.3	Direct the Dose Assessment Specialist in the EOF to perform dose projections. If the Dose Assessment Specialist is not available, then direct the Acting Radiological Manager to perform dose projections.	· · · · · · · · · · · · · · · · · · ·
	1.12	If site e IN05, S Accoun	vacuation has not been completed, then implement 0ERP01-ZV- ite Evacuation upon completion of Assembly and tability.	
	SPEC	CIAL AC	TIONS	
	2.1	Conside that inc	er restricting hand held radio transmissions during security events lude explosive or electronic controlled devices.	LOG
	2.2	Personr	nel Emergencies	
		2.2.1	Implement 0POP04-ZO-0004, Personnel Emergencies.	LOG
	2.3	Missing	g Persons	3 ¹
		2.3.1	If missing persons are discovered as a result of performing Assembly and Accountability, then contact the Duty Maintenance Supervisor (Acting OSC Coordinator) and provide names and last known locations of the missing persons. Direct the Duty Maintenance Supervisor (Acting OSC Coordinator) to form and dispatch Search and Rescue teams.	
	ONG	OING A	CTIONS	
	3.1	Continu Emerge	nously assess plant conditions against 0ERP01-ZV-IN01, ency Classification to determine if changes to the current new classification are warranted	LOG

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Acti	ion		Time
	3.2	Evaluate the adequacy of the current Operations staffing and request assistance from the unaffected Unit and/or call out additional personnel.	LOG
*	3.3	Make periodic site public address announcements of the status of the emergency including any radiological hazard precautions.	LOG
	3.4	Until relieved as the Emergency Director, update off-site agencies (State, County, BRC) about hourly (or more frequently if warranted) on the status of the emergency.	LOG
	3.5	Keep Plant Operators advised of Plant Status and radiological conditions as applicable.	LOG
	3.6	Review and approve press releases as applicable.	LOG
	3.7	If severe reactor core damage is identified, then implement procedure 0ERP01-ZV-TP03, Severe Accident Management.	LOG

- Maintain an Emergency Action Log.
- 4.0 FOLLOWING EMERGENCY DIRECTOR TURNOVER TO THE TSC MANAGER
 - Maintain ENS communications with the NRC if requested.
 - Advise the Emergency Director of conditions which may change the classification of the emergency.
 - Periodically brief the Control Room staff of the status of the emergency and ongoing repair efforts.

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	Data S	Sheet 5	Т	ermination Checklist		Page 1 of 1
	1)	Name)		(Date)		(Unit)
Actio	on					Time
1.0	TER	MINATI	ON ACTIONS			
	1.1	Annous address	nce termination of the en system.	mergency condition o	ver the public	·
	1.2	Comple Notific	ete notifications to offsit ations to Offsite Agenci			
	1.3	For ten declara	nination of an Unusual tion of the event that the	Event, notify all indiv e event is terminated.	iduals notified on	
	1.4	Determ per 0P0	ine if Fitness for Duty p 3P09-ZA-0002, Fitness	post-accident screenin For Duty Program.	g should be initiated	
	1.5	Provide Superv	a list of any supplies of any supplies of a list of any supplies of a list of any supplies of a list of a	r forms needing replea	nishment to the	
	1.6	Develo `0ERP0	p a list of activities and 1-ZV-RE02, Form 1, Co	tasks which should be orrective Action Items	e completed using : List.	
		1.6.1	Collect the lists devel Manager, Acting Sect Coordinator. Review Manager, Emergency	loped by the Acting Raurity Manager, and the vite lists and forward Response.	adiological Acting OSC them to the	
	1.7	Follow sheets j Respon	ing termination from an pertaining to the event a se.	Unusual Event, colle and forward to the Sup	ct all logs and data ervisor, Emergency	
	1.8	Follow	ing termination from an	Alert or higher classi	fication, forward all	

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· · · · ·		Offsite Dose Calc	ulations	. <u> </u>	• .•	
Quality	Non Safety-Rel	ated Usage	e: N/A E	ffective Date:	03/25/04	•
Max Keyes	. N/.	Α	N/A	Emerg	ency Response D	Division
PREPARER	TECHN	IICAL	USER	COGNI	ZANT ORGANI	ZATION
Table of Contents	· · ·		. ·	. :	.	Page
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Offsite Dose Calculations

1.0 Purpose and Scope

- 1.1 This procedure provides instructions for performing offsite dose calculations by estimating offsite dose rates and integrated doses to the general public during a declared event when radioactive material is released from the South Texas Project Electric Generating Station (STPEGS).
- 1.2 Methods that may be used for dose calculations included in this procedure are STAMPEDE and Emergency Dose Rate Tables.
- 1.3 This procedure implements the requirements of the STPEGS Emergency Plan specific to calculating offsite doses to the General Public.

2.0 Definitions

- 2.1 ATMOSPHERIC STABILITY CLASS: A letter designator indicating the relative stability or instability of an air mass.
- 2.2 DEFAULT RELEASE DURATION The amount of time in hours, automatically used by dose projection programs as the release duration. This default value is selected to best characterize release duration based on maximum evacuation times and historical meteorological data.
- 2.3 DELTA TEMPERATURE: The temperature differential measured between the 60 meter and 10 meter levels of the primary meteorological tower (60 m (°F) 10 m (°F)).
- 2.4 GROUND LEVEL RELEASE: All releases at the STPEGS are assumed to be best modeled as though at ground level and are dispersed based on 10 meter meteorological data.
- 2.5 OFFSITE DOSE CALCULATION METHODS:
 - 2.5.1 South Texas Assessment Model Projecting Emergency Dose Evaluation (STAMPEDE)

A computer program used to perform offsite dose calculations, TEDE dose rates, inhalation thyroid CDE dose rates and doses integrated through the duration of the release are calculated.

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		Offsite Dose Calculations		
	2.5.2	Emergency Dose Rate Tables	· . · ·	
	· · · · · · · · · · · · · · · · · · ·	Tables which predict TEDE and thyroid C the STPEGS are based on an estimated re atmospheric stability class (A through G). on a gap inventory using STAMPEDE. W indicated on each table.	DE dose rates at 1 lease rate (µCi/sec) The default isoto /ind speed varies p	to 10 miles from and the pic mix was based ber stability class as
2.6	HATCH M and RT-80 Monitor d	MONITOR: Temporary monitor installed v 051 are out of service. A correction factor lose rate to dose rate inside containment. R	when Containment has been calculate eference 6.6	Monitors RT-8050 I to relate Hatch
2.7	OFFSITE general pu since reac helpful in	DOSE CALCULATION: A calculation of ablic based on releases of radioactive mate tor shutdown, and the expected release due formulating offsite Protective Action Rec	of the estimated off rial, meteorologica ration. The offsite commendations (PA	site dose to the l conditions, time dose calculation is IR).
2.8	PROTEC projected and Protec	TIVE ACTION GUIDE (PAG): An actio dose as identified in EPA 400-R-92-001, I ctive Actions for Nuclear Incidents.	n to be taken to av Manual of Protecti	oid or reduce a ve Action Guides
2.9	RADIOLO EAL limit	OGICAL RELEASE: Any radiological rel ts established for an Unusual Event.	ease from the plan	t that exceeds the
2.10	SIGMA-T deviation	THETA: A method to assign atmospheric of the wind direction in degrees (°).	stability classes ba	sed on the standard
2.11	SOURCE rates of th	TERM: With respect to offsite dose calculate radioactive material.	ulations, the charac	cteristics and release
Prec	autions and I	Limitations		. :
3.1	For Steam flow repor conservati program.	n Generator Tube Rupture (SGTR) events w rted on the Integrated Computer System (IC ive PAR. Use the default MSL flow rate sp	rith 100% S/G wate S) will be high and ecified by the dose	er level, the steam I result in an over e assessment
3.2	The dose at greater	projection capabilities of all methods depe distances from the release point.	nd upon models th	at become less exac

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Offsite Dose Calculations

- 3.3 When collecting wind speed and wind direction meteorological data from the primary or backup meteorological tower, or the National Weather Service Forecast Office, care must be taken to ensure that a 15 minute average value is used in dose calculations and not an instantaneous value.
- 3.4 Regional meteorological data may be required to help evaluate offsite dose calculations. This information can be obtained from the National Weather Service in Dickinson, Texas. The types of information that can be obtained include temperature, wind speed, wind direction, cloud height, and cloud cover. As time permits, forecast data may be used to supplement dose projections.
- 3.5 Default parameters are built into the STAMPEDE program for ground wind velocity, ground level wind direction, and atmospheric stability class. These parameters are displayed on screen while working with STAMPEDE.
- 3.6 IF dose assessment results indicate Protective Action Guides (PAGs) exceeded at >10 miles, AND the Emergency Director resides in the affected Unit Control Room, THEN as available, verify dose assessment results with field teams and notify the Emergency Director. Discuss with the Emergency Director expanded PARs for downwind sectors >10 miles in 2 mile increments until PAGs are not exceeded.
- 3.7 IF dose assessment results indicate PAGs exceeded at >10 miles, AND the Emergency Director resides in the TSC, THEN verify dose assessment results with field teams and notify the Radiological Manager. Discuss with the Radiological Manager expanded PARs for downwind sectors >10 miles in 2 mile increments until PAGs are not exceeded.
- 3.8 IF dose assessment results indicate PAGs exceeded at >10 miles, AND the Emergency Director resides in the EOF, THEN verify dose assessment results with field teams and notify the Radiological Director. Discuss with the Radiological Director expanded PARs for downwind sectors >10 miles in 2 mile increments until PAGs are not exceeded.
- 3.9 If multiple release paths are indicated by elevated radiological monitor readings, then calculate each pathway and sum result. (Example: Two S/G Tube Ruptures with two stuck open PORV's results in the following Calculate Main Steam Line Monitors RT-8046 and RT-8049 and sum results).
- 4.0 Responsibilities
 - 4.1 Prior to activation of the TSC or EOF, the Acting Radiological Manager is responsible for implementation of this procedure (i.e., Onshift Dose Assessment). Offsite dose calculation results shall be provided to the Emergency Director.

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			Offsite Dose Calculations			
	4.2	Upon acti of this pro Director.	vation of the TSC, the Radiological Manager ocedure. Offsite dose calculation results shall	is responsible f be provided to	or implementation the Emergency	्र इ.म्
	4.3	Upon acti this proce directed b	vation of the EOF, the Radiological Director dure. The Dose Assessment Specialist shall j by the Radiological Director and provide resul	is responsible fo perform offsite o ts.	or implementation of lose calculations as	f 2 5 4 8 4 4 5 1 5 8 5
	4.4	Offsite do Manager,	ose calculations are updated as requested by th or Radiological Director.	e Emergency D	irector, Radiologica	1 3 3 A 1
0	Proce	dure				. ·
	5.1	Use the ap needed, to	ppropriate sections of Addendum 1, Offsite D o perform offsite dose calculations.	ose Calculation	Input Worksheet, as	S · • · · · · · ·
	.5.2	Review A	ddendum 2, UFSAR Accident Assumptions,	as necessary.		
	5.3	Changes t	to any of the following parameters requires ac	Iditional offsite	dose calculations:	
		5.3.1	Increased release rates or wind speed (that a	add additional zo	ones downwind)	. ?
	•	5.3.2	Wind direction (that add additional zones)		•	
		5.3.3	Atmospheric stability classification (that ad	d additional zor	es)	
	5.4	If dose as: program a program i points, an	sessment is required from onshift Health Phy as described in Addendum 4, Use of STAMP is available in both unit Control Rooms and a ad can be run by inputting the requested data.	sics personnel, t EDE Program, r t the 41 ft. Heal	he STAMPEDE nay be used. The h Physics control	
	5.5	IF the typ Reactor C Seizure an THEN Ac containme	e of accident is a Loss of Coolant Accident, I Containment Building, Control Rod Ejection of nd Containment Leakage directly to the envir ddendum 3, Containment Leakage Nomograp ent source term in the absence of better indic	Fuel Handling A or Reactor Coola onment is the re h, may be used ations of a releas	ccident inside the ant Pump Shaft lease pathway, to estimate se.	
	5.6	STAMPE 4, Use of	EDE may be used for performing offsite dose STAMPEDE Program.	calculations, im	plement Addendum	•:
	5.7	IF all con Addendu	nputer based dose assessment methods are un m 5, Emergency Dose Rate Tables.	available, THEI	N implement	• •
	5.8	Complete	Form 1, Offsite Dose Calculations Transmit	tal Form.		Ţ

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			Offsite D	ose Calcul	ations	· ·		
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6.	1 STPEGS	Emergency P	lan				÷	7
6.2	2 0ERP01-	ZV-EF15, Do	ose Assessm	ent Special	ist -		÷	;
6.:	3 0ERP01-	ZV-IN07, Of	fsite Protect	tive Action	Recomme	ndations	,	·
6.4	4 , 0PGP05-	ZV-0004, Em	ergency Pla	an Impleme	nting Proc	edure Users Gui	de	۰. ،
6.:	5 ZV-0001	, STAMPEDI	E Users Ma	nual			· ï	,
6.0	6 . 03-ZE-00 Fuel Mor)3, RT8050/R hitoring	.T8051 Con	tingency Co	onversion (Constant for Pos	t-Accident Failed	i. F
0 Su	upport Docume	ents					÷ •:	
7.	1 Form 1, 0	Offsite Dose (Calculations	s Transmitta	l Form (S	ample)		
7.2	2 Addendu	m 1, Offsite I	Dose Calcul	ation Input	Workshee	t	•	••
7.	.3 Addendu	m 2, UFSAR	Accident A	ssumptions			· · · · · ·	۰j
7.4	4 Addendu	m 3, Containi	ment Leaka	ge Nomogra	ph		· · · ·	•
7.:	5 Addendu	m 4, Use of S	TAMPEDE	E Program				
7.0	6 Addendu	m 5, Emerger	ncy Dose Ra	ate Tables			-	
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		Offsite Dose Cal	culations			
Form 1	Offsite Do	se Calculations Tr	ansmittal F	form (Sampl	e) P	age 1 of 1
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		RESULT	<u>s</u>	:		
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nod of Projection:	·	· ·				
STAMPEDE	Ŷ	•			Ŷ	
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ite Diese Dusingtion						
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TEDE (Rem)						1
CDF (Rem)	:	, v	-,		· · ·	
	······································	<u> </u>		<u>.</u>	[~]	
Projected duration	n of release	_	<u> </u>	• • •		
IF dose assessme	nt results indic	ate PAGs exceede	d at >10 m	iles, AND th h field team	e Emergences and notify	y Director
resides in the TSC Radiological Mar	C, THEN verif	with the Radiolog	rical Mana	ver expande	d PARs for a	lownwind
resides in the TSC Radiological Mar sectors >10 miles	C, THEN verif nager. Discuss in 2 mile incr	with the Radiolog ements until PAG	gical Manages are not ex	ger expande ceeded.	d PARs for o	lownwind
resides in the TSC Radiological Mar sectors >10 miles IF dose assessment resides in the EO Radiological Direct sectors >10 miles	C, THEN verif nager. Discuss in 2 mile incr nt results indic F, THEN verif ector. Discuss in 2 mile incr	with the Radiolog ements until PAG ate PAGs exceede y dose assessment with the Radiolog ements until PAG	gical Manages are not ex the dat >10 m results with ical Directors are not ex	ger expanded ceeded. iles, AND the h field team or expanded ceeded.	d PARs for one Emergence s and notify PARs for de	lownwind cy Director the ownwind
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resides in the TSO Radiological Mar sectors >10 miles IF dose assessment resides in the EO Radiological Dires sectors >10 miles PERFORMED B REVIEWED BY	C, THEN verifinager. Discuss in 2 mile increase nt results indic F, THEN verific ctor. Discuss in 2 mile increase Y: Name	y dose assessment with the Radiolog ements until PAGs ate PAGs exceede y dose assessment with the Radiolog ements until PAG	gical Manages are not ex at at >10 m results with ical Directors are not ex	ger expanded ceeded. illes, AND the field team or expanded ceeded.	d PARs for one Emergences and notify PARs for de Date/Time	lownwind by Director the ownwind
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	÷.		0ER	P01-ZV-TP0		Rev. 15	Page 8 of 22
			0	ffsite Dose Calc	ulations		
	Adden	dum 1	Offsite	Dose Calculation	n Input Worl	ksheet	Page 1 of 2
.0	<u>Atmc</u>	ospheric Sta	bility Classification	on			
	<u>Stabi</u> Extre	ility Classif mely Unsta	fication <u>Class</u> ble A	<u>Delt</u>	<u>a_T (60m-1</u> <-1.71	<u>0m)⁰F</u>	* <u>Sigma-Theta</u> ≥ 22.5
	Mode	erately Unst	table B		-1.71 to -1.5	53	17.5 to 22.4
	Sligh	tly Unstable	e C		-1.52 to -1.3	5	12.5 to 17.4
	Neut	ral	D		-1.34 to -0.4	15	7.5 to 12.4
	Sligh	tly Stable	E		-0.44 to 1.3	5	3.8 to 7.4
	Mode	erately Stab	le F		1.36 to 3.6	D	2.1 to 3.7
	Extre	mely Stable	e G		> 3.60		< 2.0
	* Do	not use Sig	ma-Theta if wind	speed is less that	1 5 mph, use	default Stal	bility Class D.
.0	<u>Estin</u>	nating Relea	ase Rates:				
	2.1	If the rele	ease point is the u	nit vent			
		2.1.1	The release rate	can be obtained	from the RM	A-11 channe	el (1 or 2) UV610.
		2.1.2	If the Unit Vent applies	release rate char	nnel is unava	uilable, the f	ollowing calculation
			•	=	x	x	
		•.	Release Rate (µCi/Sec)	Flow Rate (scfm)	Conce (µC	ntration Ci/cc)	Conversion Factor (4.72 E +2)
	2.2	If the rele calculatio	ease point is the M ons applies.	Iain Steam Line I	PORV or Sa	fety Valve, (either of the following
				NOTE	,		
			Use .2% Iodin	e for coolant leak	age through	the S/G.	
		2.2.1			-		
	·		Release Rate (µCi/Sec)	= MSL Flow (lb mass/hr) ICS (FW Display)	x . MSL (μCi/	X Activity cc) RT-	Conversion Factor (2.54)

: .		0E	RP01-ZV-TP01	Rev. 1	5 Page 9 of	22
•			Offsite Dose Calculati	ons		
Adden	dum 1	Offsit	e Dose Calculation Inp	out Worksheet	Page 2 of	2
. •	•		· · · ·		, ·	
	2.2.2					
			= X		x	
		Release Rate	Primary to Secondary	RCS Activity	Conversion Factor (63.08)	
		(μου σοο)	Leak Rate	(1.02.111)		
			(GPM)			
2.3	If the release	lease point is cont	tainment leaking <u>direct</u> I team data or use the or	<u>ly</u> to the environm	ient then either esti	imate -
	Addend	um 3 (if the prope	er conditions apply).	ontaminent reaking	,e nomograph,	
Relea	se Estima	tes From Field Ra	diological Data		′ ·:	,
Iterea				Date 7	ime Loca	ation
			· · · · · · · · · · · · · · · · · · ·			
			NOTE			
ld measu method	irements ta	aken off centerline	<u>NOIE</u> e of the plume will not	estimate source te	rms accurately usi	ng
ld measu method s method	trements ta d will unde Release	aken off centerline erestimate the rele	NOTE e of the plume will not ease rate if particulates DE (Deep Dose Equiv	estimate source te and Iodines are pr alent) dose rates to	erms accurately usi	ng
ld measu s method s methoo 3.1	urements ta d will und Release a.	aken off centerling erestimate the rele estimates from D Determine DDE d	NOTE e of the plume will not ease rate if particulates DDE (Deep Dose Equiv lose rate at plume cente	estimate source te and Iodines are pr alent) dose rates ta erline	erms accurately usi resent. aken in plume mrem/hour.	ng
ld measu s method s method 3.1	a.	aken off centerline erestimate the rele estimates from D Determine DDE d Approximate dista	NOTE e of the plume will not ease rate if particulates DDE (Deep Dose Equiv lose rate at plume cente ance downwind that the niles.	estimate source te and Iodines are pr alent) dose rates ta erline e measurement in	erms accurately usi resent. aken in plume mrem/hour. Step a. was made	ng
ld measu s method s method 3.1	rements ta d will undo Release a. d b. d c. d	aken off centerline erestimate the rele estimates from D Determine DDE d Approximate dista m Use STAMPEDE	NOTE e of the plume will not ease rate if particulates DDE (Deep Dose Equiv lose rate at plume cente ance downwind that the illes. to perform the followi	estimate source te and Iodines are pr alent) dose rates ta erline e measurement in ng steps.	erms accurately usi resent. aken in plume mrem/hour. Step a. was made	ng
ld measu s method s method 3.1	a. b. c.	aken off centerline erestimate the rele estimates from D Determine DDE d Approximate dista m Use STAMPEDE 1. Enter the a	NOTE e of the plume will not ease rate if particulates DDE (Deep Dose Equiva lose rate at plume center ance downwind that the niles. to perform the followi appropriate meteorolog	estimate source te and Iodines are pr alent) dose rates ta erline e measurement in ng steps. fical data.	erms accurately usi resent. aken in plume mrem/hour. Step a. was made	ng
ld measu s method s method 3.1	a. b. c.	aken off centerline erestimate the rele estimates from D Determine DDE d Approximate dista Use STAMPEDE 1. Enter the a 2. Select the	NOTE e of the plume will not ease rate if particulates DDE (Deep Dose Equiva- lose rate at plume center ance downwind that the niles. to perform the followi appropriate meteorolog Field Data option.	estimate source te and Iodines are pr alent) dose rates ta erline e measurement in ng steps. ical data.	erms accurately usi resent. aken in plume mrem/hour. Step a. was made	ng
ld measu s method 3.1	a. b. c.	aken off centerline erestimate the relevent estimates from D Determine DDE d Approximate dista Use STAMPEDE 1. Enter the a 2. Select the 3. Enter the a above.	NOTE e of the plume will not ease rate if particulates DDE (Deep Dose Equiva- lose rate at plume center ance downwind that the niles. to perform the followi appropriate meteorolog Field Data option. approximate distance at	estimate source te and Iodines are pr alent) dose rates ta erline e measurement in ng steps. fical data. nd dose rate estim	erms accurately usi resent. aken in plume mrem/hour. Step a. was made ated in Steps a. an	ng d b.
ld measu s method is method 3.1	rements ta d will undo Release a. 1 b c. 1	aken off centerline erestimate the relevent estimates from D Determine DDE d Approximate dista Use STAMPEDE 1. Enter the a 2. Select the 3. Enter the a above. 4. The estimate	NOTE e of the plume will not ease rate if particulates DDE (Deep Dose Equiva- lose rate at plume center ance downwind that the niles. to perform the followi appropriate meteorolog Field Data option. approximate distance an ated release rate isy classification and PA	estimate source te and Iodines are pr alent) dose rates ta erline e measurement in ng steps. dical data. nd dose rate estim Use to Rs.	erms accurately usi resent. aken in plume mrem/hour. Step a. was made ated in Steps a. an this value to reexan	ng d b. mine

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Offsite Dose Calculations							
Addendum 2	UFSAR Accident Assumptions	Page 1 of 1					
Type of Accident	UFSAR Section/Table	Release Locations					
LOCA	15.6.5/15.6-10	RCB Leakage Unit Vent					
Fuel Handling Accident	15.7.4/15.7-9	RCB Leakage					
Parameters For Other Accidents Listed Below:	Misc. Chapter 15	As Indicated Below					
Mainsteam Line Break	15.1.5/15.1-2	Turbine Building Isolation Valve Cubicles					
locked Rotor	15.3.3/15.3-3	RCB Leakage Unit Vent (*)					
CCA Ejection	15.4.8/15.4-4	RCB Leakage Unit Vent (*)					
CVCS Letdown Line Break Dutside RCB	15.6.2/15.6-13	Unit Vent					
team Generator Tube Rupture	15.6.3/15.6-13	PORV's Turbine Building					
";:	•	Isolation Valve Cubicles Unit Vent					
Recycle Holdup Tank Rupture	15.7.1/15.7-1	Unit Vent					
iquid Tank Rupture	15.7.3	Ground Seepage Unit Vent					

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(*) IF primary-to-secondary leakage is present, THEN the Turbine Building, Isolation Valve Cubicles, and Power Operated Relief Valves (PORV's) are additional release points.

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	Offsite Dose C	Calculations	· · · · · · · · · · · · · · · · · · ·		
Addendum 3	Containment Le	akage Nomogra	iph .	• Page 1 of 3	
				•	
The containment a	ctivity concentration may be	estimated by us	se of the High I	Range Containm	•nt
Monitor (RT-8050	, RT-8051 or Hatch Monitor):):	je or the might		5111
RT-8050 _	R/hr @ Time				•
RT-8051 _	R/hr @ Time	· · ·	-		
Hatch Mon	itor mR/hr x .45	0 = CTMT R/hr	r @ Time	:·	
Time after reactor	trip (in hours):			. 31 - C	i. 1
Estimate the releas	e rate by recording the initia	l pressure in co	ntainment:		: .
a. Record the	initial pressure and time [IC	CS Screen Z]	. г	. · · · · 行, ·	; i
pressure P	1 at T ₁	- .	• • •	P = Pressure T = Time	
b. Record the	subsequent pressure and tim	ne [ICS Screen	z]		. .
pressure P	2 at T ₂		•		
Calculate p	ressure drop:		• • •	•	•
P ₁	P ₂ =	P			,
Calculate ti	ime in hours:			:	. .
T ₂	T ₁ =	T(hrs)	· ·		ur a
c. <u>IF</u> a decrea <u>NOT</u> in pro	se in pressure is recorded, <u>A</u> ogress, <u>THEN</u> calculate decr	<u>ND</u> containmen ease in pressure	nt spray is per hour:	••• • • •	•
P +	T(hrs) = P/h	r			
Using the Contains A <u>THRU</u> time afte point on line C <u>TH</u> release rate).	ment Leakage Nomograph (p r reactor trip on line B, to co I <u>RU</u> point on line D (decreas	page 3 of 3), con oncentration (Ci se in pressure pe	nnect point for μ /m ³ or μ Ci/cc) er hour) to value	radiation level or on line C. Conn e on line Ε (μCi/	n line ect sec
Complete dose pro	niections using Addendum 4	Use of STAM	PEDE Program	or Addendum 5	

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	. 1	Offsite Dose Calculations		
Addendun	n 3	Containment Leakage Nomogra	ph	Page 2 of 3

<u>NOTE</u>

Scales are logarithmic or nonlinear

EXAMPLE CALCULATIONS:

- 1. Data: RT-8050/8051 = 2E+4 R/hr, 10 hrs after reactor trip. No RCB pressure decreases are noted!
 - Find: RT-8050 reading of 2E+4 R/hr on A scale, and 10 hrs on B scale. Connect the two points with a straight line through C scale to find 2000 Ci/m³ (2000 μ Ci/cc). Connect the point at 2000 Ci/m³ to FSAR LEAK LIMIT (0.3% containment volume/day) on D scale. Extend line from C scale through D scale to read 4.0E+6 μ Ci/sec release rate.
 - Data: RT-8050/8051 = 1.1E+2 R/hr, 1 hour after the reactor trip, with 0.1 psi pressure drop per hour.
 - Find: 1.1E+2 R/hr on A scale. Draw a line through 1 hour on B scale to find 5 Ci/m3 (5 μ Ci/cc) on C scale. Connect the point from C scale through 0.1 psi/hr on D scale to find 1E+6 μ Ci/sec release rate on E scale.









WARNING

Do <u>NOT</u> use this Nomograph greater than 24 hours after reactor shutdown due to isotopic decay.

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Offsite Dose Calculations										
Addendum 4	Use of STAMPEDE Program		Page 1 of 1							

<u>NOTE</u>

Four hours is automatically used by the STAMPEDE dose projection programs for the release duration.

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- 1.0 The STAMPEDE computer program and its associated data tables are loaded on the LAN and onto selected computers at STPEGS and the Texas Bureau of Radiation Control. The program is accessed from the Microsoft Windows display by clicking on the appropriate icon.
- 2.0 Although the code is generally self-explanatory. Detailed operating instructions (User Manual) are located at each work station as an aid to operation. Default values are provided for all entries should actual data not be available.

3.0 Should the work area require evacuation, stored data should be copied to a diskette transported and loaded into a computer at an alternate location as described in Desktop Guide Instruction ZV-0001, STAMPEDE Users Manual.

Addendum 5 Emergency Dose Rate Tables Page 1 of 8 1.0 Use the following Emergency Dose Rate Table that corresponds to the current stability class. [DEFAULT: Stability Class D] 2.0 2.0 Locate the TEDE and thyroid CDE dose rate (Rem/hr) for the one, two, five and ten-mile radii that corresponds to the release rate. 3.0 Multiply the dose rates by the expected duration of the release. (Use 4 hour release duration if actual duration not known.) 4.0 Data in the tables was generated by STAMPEDE, Revision 7.0, using the GAP Inventory at time 00:00 after reactor trip.	-	· · · · · · · · · · · · · · · · · · ·		OEI	RP01-2	ZV-TP	01	Rev. 15	Page 15 c	of 22
 Use the following Emergency Dose Rate Table that corresponds to the current stability class. [DEFAULT: Stability Class D] Locate the TEDE and thyroid CDE dose rate (Rem/hr) for the one, two, five and ten-mile radii that corresponds to the release rate. Multiply the dose rates by the expected duration of the release. (Use 4 hour release duration if actual duration not known.) Data in the tables was generated by STAMPEDE, Revision 7.0, using the GAP Inventory at time 00:00 after reactor trip. 	·	Addendum 5	•	,	Emerge	ency Do	se Rate Tab	les	Page 1 o	of 8
 2.0 Locate the TEDE and thyroid CDE dose rate (Rem/hr) for the one, two, five and ten-mile radii that corresponds to the release rate. 3.0 Multiply the dose rates by the expected duration of the release. (Use 4 hour release duration if actual duration not known.) 4.0 Data in the tables was generated by STAMPEDE, Revision 7.0, using the GAP Inventory at time 00:00 after reactor trip. 	1.0	Use the follow [DEFAULT:	wing Emer Stability C	rgency Do Class D]	se Rate	Table t	hat corresp	onds to the current	nt stability clas	S.
 Multiply the dose rates by the expected duration of the release. (Use 4 hour release duration if actual duration not known.) Data in the tables was generated by STAMPEDE, Revision 7.0, using the GAP Inventory at time 00:00 after reactor trip. 	2.0	Locate the TE corresponds to	EDE and th o the relea	nyroid CD ise rate.	E dose	rate (Re	em/hr) for th	ne one, two, five	and ten-mile r	adii that
4.0 Data in the tables was generated by STAMPEDE, Revision 7.0, using the GAP Inventory at time 00:00 after reactor trip.	3.0	Multiply the cactual duratio	lose rates on not know	by the exp wn.)	ected d	luration	of the relea	se. (Use 4 hour r	elease duration	n if
	4.0 [Data in the ta 00:00 after re	bles was g actor trip.	enerated l	by STA	MPEDI	E, Revision	7.0, using the GA	AP Inventory a	t time
				š.	; ; ;		1 - 1 - 1 2 - 10 1 - 10	· · · · · · · · · · · · · · · · · · ·		n .
		an a saint a China gella T			, î		• • • • •	2	• • • • •	
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Offsite Dose Calculations								
Addendum 5	Emergency Dose Rate Table	5	Page 2 of 8					

STABILITY CLASS A Delta T °F < -1.71

<u>NOTE</u>

IF the release rate is between two values, THEN interpolate.

	DOSE RATE (Rem/hour)								
Release Rate (μCi/sec)	1 TEDE	Mile CDE	2 TEDE	Mile CDE	5 N TEDE	file CDE	10 TEDE	Mile CDE	
1.00E+06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2.00E+06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4.00E+06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1.00E+07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2.00E+07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4.00E+07	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
1.00E+08	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	
2.00E+08	0.01	0.02	0.00	0.01	0.00	0.01	0.00	0.00	
4.00E+08	0.01	0.03	0.01	0.03	0.00	0.01	0.00	0.01	
1.00E+09	0.03	0.12	0.01	0.06	0.01	0.02	0.00	0.01	
2.00E+09	0.06	0.24	0.03	0.13	0.01	0.05	0.00	0.02	
4.00E+09	0.12	0.50	0.06	0.26	0.02	0.10	0.01	0.05	
1.00E+10	0.29	1.20	0.14	0.62	0.05	0.24	0.02	0.12	
2.00E+10	0.58	2.44	0.27	1.26	0.10	0.49	0.04	0.23	
4.00E+10	1.16	4.76	0.54	2.45	0.19	0.96	0.08	0.46	

TEDE = Total Effective Dose Equivalent

Wind Speed: 14.8 mph

(External + Internal) CDE = Committed Dose Equivalent (Thyroid)

Multiply the dose rates by the expected duration of the release. (Use 4 hour release duration if actual duration not known.)

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· · · · · · · · · · · · · · · · · · ·	Offsite Dose Calculations		
Addendum 5	Emergency Dose Rate Tables		Page 3 of 8

STABILITY CLASS B (Delta T °F -1.71 to -1.53)

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IF the release rate is between two values, THEN interpolate.

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· ·	DOSE RATE (Rem/hour)									
Release Rate (µCi/sec)	1 Mile TEDE CDE		2 Mile TEDE CDE		5 Mile TEDE CDE		10 Mile TEDE CDE			
1.00E+06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2.00E+06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4.00E+06	0.001	0.00	0.00	0.00	0.0	0.00	0.00	0.00		
1.00E+07	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00		
2.00E+07	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00		
4.00E+07	0.01	0.04	0.00	0.01	0.00	0.00	0.00	0.00		
1.00E+08	0.02	0.09	0.01	0.02	0.00	0.00	0.00	0.00		
2.00E+08	0.04	0.19	0.01	0.05	0.00	0.01	0.00	0.00		
4.00E+08	0.09	0.38	0.02	0.09	0.00	0.01	0.00	0.01		
1.00E+09	0.22	0.92	0.05	0.22	0.01	0.03	0.00	0.02		
2.00E+09	0.43	1.78	0.09	0.43	0.01	0.07	0.01	0.03		
4.00E+09	0.86	3.62	0.19	0.88	0.03	0.13	0.01	0.06		
1.00E+10	2.17	9.29	0.48	2.25	0.06	0.34	0.03	0.16		
2.00E+10	4.31	17.94	0.94	4.35	0.13	0.66	0.05	0.31		
4.00E+10	8.65	36.49	1.90	8.85	0.25	1.33	0.11	0.62		

TEDE = Total Effective Dose Equivalent (External + Internal)

Wind Speed: 14.2 mph

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CDE = Committed Dose Equivalent

(Thyroid)

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Multiply the dose rates by the expected duration of the release. (Use 4 hour release duration if actual duration not known.) :
	• .	Page 18 of 22						
Offsite Dose Calculations								
Addendu	ddendum 5 Emergency Dose Rate Tables							

STABILITY CLASS C (Delta T °F -1.52 to -1.35)

				NOTE					
IF the release rate is between two values, THEN interpolate.									
L,							·····		יין נ יי נ
· · ·	·,	ىيە : 	· D	OSE RATE (I	kem/hour)	<u> </u>			
Release Rate (μCi/sec)	1 TEDE	Mile CDE	TEDE	Mile CDE	5 N TEDE	file CDE	* 10 TEDE	Mile CDE	
1.00E+05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2.00E+05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4.00E+05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1.00E+06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2.00E+06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
4.00E+06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
1.00E+07	0.01	0.03	0.00	0.01	0.00	0.00	0.00	0.00	
2.00E+07	0.01	0.05	0.00	0.01	0.00	0.00	0.00	0.00	
4.00E+07	0.02	0.11	0.01	0.03	0.00	0.01	0.00	0.00	
1.00E+08	0.06	0.24	0.01	0.07	0.00	0.01	0.00	0.00	14 H
2.00E+08	0.12	0.50	0.03	0.14	0.00	0.02	0.00	0.05	17 H
4.00E+08	0.24	1.01	0.06	0.28	0.01	0.05	0.00	0.01	1
1.00E+09	0.59	2.45	0.15	0.68	0.02	0.11	0.01	0.03	
2.00E+09	1.18	5.01	0.29	1.38	0.04	0.23	0.01	0.06	
4.00E+09	2.33	9.70	0.58	2.68	0.09	0.45	0.02	0.11	
1.00E+10	5.88	25.04	1.47	6.91	0.22	1.16	0.05	0.29	
2.00E+10	11.80	50.75	2.96	14.01	0.44	2.35	0.10	0.58	
4.00E+10	23.43	98.62	5.84	27.23	0.86	4.57	0.20	1.13	

TEDE = Total Effective Dose Equivalent (External + Internal) CDE = Committed Dose Equivalent (Thyroid)

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Wind Speed: 13.6 mph

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Multiply the dose rates by the expected duration of the release. (Use 4 hour release duration if actual duration not known.)

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STABILITY CLASS F (Delta T^oF 1.36 to 3.60)

NOTE IF the release rate is between two values, THEN interpolate. ₩. DOSE RATE (Rem/hour) ň Release •2 1 Mile 2 Mile 5 Mile 10 Mile Rate TEDE CDE . TEDE CDE TEDE CDE 🗠 TEDE CDE (µCi/sec) 1.00E+04 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.00E+04 0.00 0.00 0.00 0.00 0.00 0.00 :0.00 4.00E+04 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 1.00E+05 0.00 0.00 0.00 0.00 0.00 0.00 2.00E+05 0.00 0.01 0.00 0.01 0.00 0.00 0.00 :0.00 4.00E+05 0.01 0.03 0.00 0.01 0.00 0.00 0.00 . (0.00 1.00E+06 0.01 0.07 0.03 0.00 0.01 0.00 0.01 0.00 2.00E+06 0.03 0.14 0.01 0.06 0.00 0.02 0.00 0.01 0.27 _. 4.00E+06 0.05 0.02 0.11 0.01 0.03 0.00 0.01 0.70 0.29 0.01 0.08 0.00 0.03 1.00E+07 0.14 0.05 1.38 0.06 0.27 0.16 2.00E+07 0.10 0.58 0.02 0.01 2.74 4.00E+07 0.55 0.20 1.15 0.05 0.31 0.02 ··· 0.11 6.78 0.51 2.85 0.77 1.00E+08 1.36 0.12 0.04 .0.28 2.00E+08 2.77 14.00 1.03 5.90 0.24 1.57 0.08 0.57 11.50 4.00E+08 5.47 27.29 2.03 0.48 3.12 0.16 1.12 1.00E+09 13.80 69.46 5.14 29.26 1.21 7.93 0.40 2.85 15.38 2.00E+09 27.13 134.70 10.04 56.73 2.35 0.78 5.51 4.00E+09 54.79 274.09 20.36 115.44 4.78 31.29 1.58 · 11.21

TEDE = Total Effective Dose Equivalent (External + Internal) CDE = Committed Dose Equivalent

699.83

138.64

Wind Speed: 5.9 mph

4.04

28.63

79.89

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• 4

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CDE = Committed Dose Equivalent (Thyroid)

1.00E+10

Multiply the dose rates by the expected duration of the release. (Use 4 hour release duration if actual duration not known.)

294.76

12.17

51.72

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STABILITY CLASS G (Delta $T^{\circ}F > 3.60$)

<u>NOTE</u>

IF the release rate is between two values, THEN interpolate.

		•	. D	OSE RATE (R	.em/hour)			
Release Rate (μCi/sec)	1 TEDE	Mile CDE	2 TEDE	Mile CDE	5 M TEDE	file CDE	10 TEDE	Mile CDE
1.00E+04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00E+04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00E+04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1.00E+05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
2.00E+05	0.01	0.02	0.00	0.01	0.00	0.00	0.00	0.00
4.00E+05	0.01	0.05	0.00	0.02	0.00	0.01	0.00	0.00
1.00E+06	0.03	0.13	0.01	0.06	0.00	0.02	0.00	0.01
2.00E+06	0.05	0.26	0.02	0.13	0.01	0.04	0.00	0.02
4.00E+06	0.10	0.51	0.05	0.26	0.01	0.08	0.00	0.03
1.00E+07	0.25	1.26	0.11	0.64	0.03	0.20	0.01	0.07
2.00E+07	0.50	2.58	0.23	1.31	0.06	0.40	0.02	0.15
4.00E+07	0.99	497	0.44	2.53	0.12	0.77	0.04	0.29
1.00E+08	2.49	12.63	1.12	6.43	0.30	1.97	0.10	0.73
2.00E+08	5.02	25.65	2.26	13.05	0.60	3.99	0.21	1.48
4.00E+08	9.84	49.56	4.39	25.24	1.16	7.71	0.40	2.86
1.00E+09	24.88	126.18	11.14	64.20	2.95	19.64	1.01	7.28
2.00E+09	50.23	256.47	22.57	130.48	5.99	39.92	2.05	14.80
4.00E+09	98.73	498.20	44.12	253.47	11.66	77.54	4.00	28.75
1.00E+10	249.38	1267.20	111./9	644./1	29.61	197.24	10.15	/3.12

TEDE = Total Effective Dose Equivalent (External + Internal) CDE = Committed Dose Equivalent

(Thyroid)

Multiply the dose rates by the expected duration of the release. (Use 4 hour release duration if actual duration not known.)

Wind Speed: 5.5 mph

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	Max Keves		N/A	N/A	Encouve Date	cy Response Division
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<u>Usage</u>

1 - IN HAND

2 - REFERENCED

3 – AVAILABLE

Severe Weather Plan

1.0 Purpose and Scope

1.1 The purpose of this plan is to provide guidance for coping with severe weather at the South Texas Project Electric Generating Station (STPEGS).

1.2 This plan shall serve as the general guidance document for STPEGS severe weather and response. Compliance with guidance contained within this plan is intended to remain flexible in order to meet the Station's operating license requirements as well as the ability to react to frequent change in the weather conditions.

1.3 This plan provides for a single point of severe weather meteorological monitoring at STPEGS.

1.4 This plan describes the command and control for activities during severe weather conditions when not in STPEGS Emergency Plan.

1.5 This plan describes the methodology for pickup, storage and retrieval of Quality Assurance Records and In-Process Required Quality Documents and Records.

1.6 Severe weather conditions are declared based on forecasts that the severe weather will, or has the potential to impact the South Texas Project.

2.0 Definitions

- 2.1 DEPARTMENT SEVERE WEATHER COORDINATOR Individual(s) assigned by a Department Manager to review, revise as required, and implement the station and specific department severe weather plan.
- 2.2 DEPARTMENT SEVERE WEATHER PLAN Specific guidance for an individual department for coping with severe weather at STPEGS.
- 2.3 DEPARTMENT SEVERE WEATHER RECORDS CUSTODIAN Individual(s) assigned by a Department Manager to implement portions of this severe weather plan as related to collection and storage of quality or in-progress required quality documents and records.
- 2.4 ENGINEERING DEPARTMENT MANAGERS For the purpose of this plan the Department Manager for Nuclear Fuels & Analysis, Design Engineering and Plant Engineering shall be referred to as the Engineering Department Managers.
- 2.5 COLD WEATHER SEASON October 31 through March 31.
- 2.6 FREEZE PROTECTION STORAGE CONTAINER Pre-staged equipment maintained in a separate area or container to ensure a quick response to requests for temporary heating and thawing during cold weather alerts. This container is stored in Warehouse 32 as restricted STP Part Number 609-34046.

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	Severe Weather Plan					
2.7	HURRICANE CATEGORIES -					
	• CATEGORY 1 - Winds 74-95 miles per hour or st	orm surge 4-5 fee	et above normal.			
	• CATEGORY 2 - Winds 96-110 miles per hour or s	storm surge 6-8 fo	eet above normal.			
	• CATEGORY 3 - Winds 111-130 miles per hour or	storm surge 9-12	2 feet above normal.			
•	 CATEGORY 4 - Winds 131-155 miles per hour or normal. 	storm surge 13-1	8 feet above			
	• CATEGORY 5 - Winds greater than 155 miles per feet above normal.	hour or storm su	rge greater than 18			
2.8	HURRICANE SEASON - June 1 through November 3	30.	•			
2.9	HURRICANE WARNING - A warning that sustained winds 74 mph or higher associated with a hurricane are expected in a specified coastal area in 24 hours or less. Actions are initiated based on predictions that the hurricane will impact STP.					
2.10	HURRICANE WATCH - An announcement for specific coastal areas that a hurricane condition is possible within 36 hours. Actions are initiated based on predictions that the hurricane will impact STP.					
2.11	IMPACT STP – Hurricane or Tropical Storm striking National Weather Service or Impact Weather.	the site as determ	ined by the			
2.12	IMPACT WEATHER - STP's consulting weather serv	vice.				
2.13	IN PROCESS REQUIRED QUALITY DOCUMENTS documents and records which have been initiated but r	S AND RECORD not completed.	OS - Quality			
2.14	NOAA - National Oceanic and Atmospheric Administ	ration.				
2.15	NWS - National Weather Service.					
2.16	QSE - Qualified Scheduling Entity (STP Coordinator)					
2.17	 QUALITY ASSURANCE (QA) RECORDS - Those records which furnish documentary evidence of the quality of items and of activities affecting quality. A document is considered a quality assurance record when the document has been completed. (Records media may consist of hard copy, microforms and records system back-up tapes and disks.) Records may be originals or legible/reproducible copies. 					
2.18	SEVERE THUNDERSTORM WARNING - Tornadoo occurring that will impact STP.	es and/or severe t	hunderstorms are			

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			Severe Weather Plan						
	2.19	SEVERE 7	THUNDERSTORM WATCH - Tornadoes an at will impact STP.	d/or severe thu	nderstorms are				
	2.20 SEVERE WEATHER - Meteorological conditions associated with severe weather that we impact STP such as hurricanes, tornadoes, flooding, sub-freezing temperatures, or freezin rain and/or ice which may threaten continued safe plant operations or personnel safety.								
	2.21 SEVERE WEATHER CLASSIFICATIONS								
	`	2.21.1	SEVERE WEATHER CONDITION THREE	:					
•	· · · .		<ul> <li>Tropical Storm - Issued when a tropical st coast between Galveston Island and Corpu impact STP with sustained winds between</li> </ul>	orm watch is p us Christi AND n 39 to 73 miles	osted for the Texas is predicted to s per hour.				
			• Hurricane - Issued when a hurricane is loc predicted to impact STP.	cated in the Gu	f of Mexico AND is				
	. • · ·	· · · ·	• Freezing Weather - Issued when the outside be less than or equal to 40°F for greater the STP.	de air temperat 1an 24 hours, o	ure is projected to r less than 32°F at				
• .			<ul> <li>Tornado Watch - Issued upon notification County and predicted to impact STP.</li> </ul>	of a tornado w	ratch for Matagorda				
~	i din Jin di	· · · · · ·	<ul> <li>Flash Flood - Issued upon notification of a Matagorda County and is predicted to imp</li> </ul>	a flash flood w bact STP.	arning for				
÷			<ul> <li>Severe Thunderstorm Warning - Issued up thunderstorms with damaging winds and I</li> </ul>	pon notification hail that will in	n of severe npact STP.				
		2.21.2	SEVERE WEATHER CONDITION TWO:						
			<ul> <li>Tropical Storm - Issued when a tropical st Texas coast between Galveston Island and to impact STP with sustained winds between</li> </ul>	torm warning is 1 Corpus Chris een 39 to 73 m	s posted for the ti AND is predicted iles per hour.				
			<ul> <li>Hurricane - Issued when a hurricane watch between Galveston Island and Corpus Chr STP.</li> </ul>	h is posted for risti AND is pr	the Texas coast edicted to impact				
		: · : i ·	a de la Article Balline de la Constante de la Constante La Article de la Constante de la Constante de la Constante La Article de la Constante de la						

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 Severe Weather Plan		
 <ul> <li>Freezing Weather - Issued when the outs be greater than 20°F but the maximum te</li> </ul>	ide air temperatu mperature is ext	are is projected to pected to remain

- less than or equal to 35°F OR QSE initiates a Cold Weather Alert that affects STP.
- Tornado Warning Issued upon notification of a tornado warning for Matagorda County and is predicted to impact STP.

#### 2.21.3 SEVERE WEATHER CONDITION ONE:

- Hurricane Issued when a hurricane warning is posted for the Texas coast between Galveston Island and Corpus Christi AND is predicted to impact STP.
- Freezing Weather Issued when the outside air temperature is projected to be less than or equal to 20°F or remain less than 35°F for an extended period of time OR QSE initiates a Cold Weather Alert that affects STP.
- 2.22 SEVERE WEATHER COORDINATOR (SWC) The Supervisor, Emergency Response, or designee.
- 2.23 SEVERE WEATHER RECORDS CUSTODIAN Individual(s) assigned by a Department Manager responsible to safeguard QA records and in-process required quality documents and records.
- 2.24 SEVERE WEATHER SAFE STRUCTURE Any building or structure that has been designed to withstand the effects of severe weather and adequately protect its occupants, and is used to shelter storm crews and other response organization personnel. The following structures are considered severe weather safe structures:
  - Reactor Containment Buildings
  - Mechanical-Electrical Auxiliary Buildings (preferred)
  - Fuel Handling Buildings
  - Diesel Generator Buildings
  - Essential Cooling Water Pump Structure
  - Other Buildings The lowest level floor and near the inner most walls
  - Owner Controlled Area Sheltering outside the Protected Area should be the lowest floor near inside walls away from windows
- 2.25 SEVERE WEATHER SITE PREPARATION TEAM Individuals assigned by Department Managers to prepare the site for severe weather. These individuals are onsite while storm crews are preparing their families and home.

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	Severe Weather Plan
2.26	STORM CREW - Consist of personnel from Facilities Management, Electrical Maintenance, Mechanical Maintenance, I&C Maintenance, NPMM, Sub-Station Operations and designated Emergency Response Organization personnel listed on Form 4, Storm Crew Roster. Storm Crew personnel listed on Form 4 will be designated as Storm Crew Team 1 or Storm Crew Team 2. Onshift personnel are augmented in accordance with the Department Severe Weather Plans (Operations, Health Physics, Chemistry, and Security).
į.	• STORM CREW TEAM 1 - (Duty Team) will be the ERO On Call Duty Team for the week and designated Craft personnel (Form 4).
	• STORM CREW TEAM 2 - (Oncoming Team) will be the ERO On Call Duty Team for the following week and designated Craft personnel (Form 4).
2.27	STP LOCATION – N28.80 W096.05 (Decimal Degrees).
2.28	TORNADO WARNING - Tornadoes and/or severe thunderstorms are occurring that will impact STP.
2.29	TORNADO WATCH - Tornadoes and/or severe thunderstorms are possible that will impact STP.
2.30	TROPICAL STORM WARNING - Tropical storm conditions, including possible sustained winds between 39 to 73 MPH, are expected in a specific coastal area in 24 hours or less. Actions are initiated based on predictions that the Tropical Storm will impact STP.
2.31	TROPICAL STORM WATCH - An announcement for specific areas that a tropical storm poses a possible threat, generally within 36 hours. Actions are initiated based on predictions that the Tropical Storm will impact STP.
Respo	onsibilities
3.1	EOF Director will be the Executive Management representative onsite and will provide overall direction for the Storm Crew. The Deputy EOF Director may also staff this position.
3.2	TSC Manager is responsible for coordinating the Station's response to severe weather in accordance with this plan. The Assistant TSC Manager may also staff this position.
3.3	Shift Supervisor (Unit 1 Control Room) is responsible for declaring, upgrading or canceling severe weather conditions.

3.4 Operations Manager reports to the Unit 1 Control Room and provides management oversight of the implementation of Control Room severe weather response activities.

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#### Severe Weather Plan

- 3.5 The Severe Weather Coordinator is responsible for monitoring weather forecasts and conditions to anticipate entry into severe weather conditions that will impact STP and notifying the Storm Crews when entry into Severe Weather Condition 3, 2, or 1 is required.
- 3.6 Department Managers are responsible for overseeing plan implementation for areas under their control when a severe weather condition is declared.
- 3.7 Department Severe Weather Coordinators are responsible for implementing applicable department plans during a declared severe weather condition as it impacts STP.
- 3.8 Department Severe Weather Records Custodians are responsible for implementation, collection and storage of department QA Records and in-process quality documents for safekeeping during a declared severe weather condition predicted to impact STP.
- 3.9 Emergency Planners are responsible for assisting in facility activation/operation, and monitoring emergency response activities related to a severe weather event.
- 3.10 Communications System Supervisor maintains operability of Site communication systems and telecommunications equipment.
- 3.11 Employee Support performs personnel special needs during a severe weather event and assisting family members with injured personnel as necessary.
- 3.12 EOF Liaison functions as the primary liaison with the STPEGS Owners and the Institute of Nuclear Power Operations (INPO). Acting as the primary interface with chemical facilities near STPEGS to provide information and coordinate support accommodations.
- 3.13 Purchaser issues contracts for personnel, equipment and services for severe weather recovery.
- 3.14 Site Public Affairs Specialist gathers information relating to the severe weather event, developing press releases, and disseminating press releases or news bulletins to the public.
- 3.15 OSC Coordinator ensures repair teams are formed, briefed, and dispatched and their status is monitored. The Assistant OSC Coordinator may also staff this position.
- 3.16 Maintenance personnel are responsible for staffing repair teams, attending briefings and debriefings, assisting in planning and performing work, identifies needed tools and equipment, and maintains and reports the status of repair activities. Maintenance personnel consist of the following disciplines: Electrical Supervisor, Electricians, I&C Supervisor, I&C Technicians, Mechanical Maintenance Supervisor, Mechanics, Materials Handlers, and Sub-Station Technicians.

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		Severe Weather Plan
	3.17	Materials Handlers are responsible for obtaining equipment and supplies from the warehouse.
	TSC Administrative Staff performs facility clerical functions.	
•	3.19	Chemical/Radiochemical Manager ensures notifications to offsite agencies. Determines priority of samples and types of analysis to be performed. Provides periodic NRC update via ENS as needed.
•	3.20	TSC Communicator can make state & county communications (phone talker), Site Publi Address Announcements, and other communications as directed. The Offsite Agency Communicator may also fill this position.
•:	3.21	Electrical Engineer is responsible for resolving electrical problems related to the severe weather condition.
	3.22	Maintenance Manager functions as the TSC interface for all repair activities requested of the Control Room and coordinates repair priorities.
	3.23	Mechanical Engineer is responsible for resolving mechanical problems related to the severe weather condition.
	3.24	Nuclear Engineer is responsible for monitoring the reactor core.
•	3.25	Radiological Manager assesses station radiological conditions for personnel protective measures and identifies the need for additional personnel.
	3.26	Security Manager directs and implements Station security activities and functions as the primary interface with Local Law Enforcement Agencies.
	3.27	Substation Operator is responsible for all work performed in the station Switchyard.
)	Proced	dure
	4.1	EOF Director
		4.1.1 When entry into Severe Weather Condition 1 is imminent due to a Hurricane, direct the Severe Weather Coordinator to activate the Storm Crew and report the Unit 1 Technical Support Center and implement Data Sheet 1, EOF Direc
•	· ••	Checklist as necessary.
	4.2	TSC Manager
,	. ^	4.2.1 When directed to activate the Storm Crew, report to the Unit 1 Technical Support Center and implement Data Sheet 2, TSC Manager Checklist as necessary.

· · · · · · · · · · · · · · · · · · ·		0PGP03-ZV-0001	<b>Rev. 10</b>	Page 10 of 51			
		Severe Weather Plan					
4.3	Severe W	eather Coordinator					
	4.3.1 Prior to May 1 of each year, implement Data Sheet 3, Severe Weather Coordinator Checklist as applicable.						
4.4	Shift Supervisor (Unit 1 Control Room)						
	4.4.1	Evaluate available weather information and do weather conditions that pertain to severe weat Section 2.0 Definitions.	eclare, upgrade her impacting (	or cancel severe STP as defined in			
	4.4.2	Notify the Severe Weather Coordinator, EOF severe weather condition changes.	Director, and	SC Manager of			
i e in	4.4.3	Request assistance from the Severe Weather ( Weather Site Preparation Team at Severe Weather Sev	Coordinator and ather Conditior	1 the Severe 3, 2, or 1 as			
	4.4.4	Implement 0POP01-ZO-0004, Extreme Cold	Weather Guide	lines, as required.			
•	4.4.5	Implement 0POP04-ZO-0002, Natural or Des required.	tructive Phenor	mena Guidelines, as			
	4.4.6	IF entry into the Emergency Plan is required A the TSC, THEN Emergency Director function Manager.	AND the Storm is may be trans	Crew has staffed ferred to the TSC			
4.5	; Departme	nt Managers	. *				
.:	4.5.1	Prior to May 1 of each year, implement Data Checklist as applicable.	Sheet 4, Depart	ment Managers			
4.6	Departme	nt Severe Weather Coordinators		、 ,			
	4.6.1	Prior to April 15 and October 31 of each year Department Severe Weather Coordinator Che	, implement Da cklist as applic	ta Sheet 5, able.			
4.7	Departme	nt Severe Weather Records Custodian	•				
	4.7.1	When directed by your Department Severe W the Storm Crew, implement Data Sheet 6, De Custodian Checklist.	eather Coordin partment Sever	ator or a member of e Weather Records			
4.8	If entry in Plan, the s emergenc	to the Emergency Plan is required during impl Shift Supervisor assumes the role of the Emerg y in accordance with the STP Emergency Plan	ementation of gency Director	the Severe Weather and directs the			

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		Severe W	eather Plan		
4.9	Non-Storn	n Crew Personnel		· · · · · ·	
, ''''''' , , , , , , , , , , , , , , ,	• Person for safe report	nel who do not have assign e operation of the Units are to the site.	ned Severe Weather e considered non-sto	r Plan positions orm crew perso	s or are not required onnel and should not
	• Do not in.	come to the site unless yo	u are a designated S	Storm Crewme	mber or are called
4.10	All Storm Electrical	Crew personnel shall main Auxiliary Building (EAB).	tain unescorted acc	ess to the Prote	ected Area and the
4.11	The report Organizati	ing organization of the Sto on.	rm Crew is identifi	ed in Addendu	m 1, Storm Crew
4.12	When a set documenta of storm ac	vere weather condition is t tion to the Severe Weather tivities, as well as assistin	erminated, Storm C r Coordinator. Data g with the Conditio	Crew personnel a may be used t on Report inves	shall forward all to complete review tigation.
4.13	Storm Crev	w Activation		•••	
· · · · · · · · · · · · · · · · · · ·	<ul> <li>Storm</li> <li>pager s</li> <li>places</li> <li>pagers</li> <li>contact</li> </ul>	Crew pager carriers are act ystem in conjunction with Storm Crew activation inst which directs them to the ed via telephone by their s	ivated by the Seven a Voice Mailbox. tructions in a voice voice mailbox for in supervisors.	re Weather Coo The Severe We mailbox, active nstructions. Cra	ordinator using the ather Coordinator ates the storm crew aft personnel will be
4.14	Radio Stat	ion Announcements	e de la composition En estas		
	• As a puinform contract area.	ablic service local and regi ation to the above mention for personnel. Refer to Ad	onal radio stations ed methods of com dendum 4, Radio S	can be used as munications w tations Listing	a backup source of ith employees and , for stations in your
4.15	Departmen	t Call Tree			
• • •	<ul> <li>Departs notify j example Departs</li> </ul>	ment Management is enco personnel in the event that le may be that the Department Manager who notifie	uraged to establish other lines of comr ient Severe Weathe s Supervisors who	and use a depar nunication are r Coordinator r in turn notify th	rtment call tree to out of service. An notifies the heir staff.
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#### Severe Weather Plan

## 4.16 Food/Water/Bedding

• Food, water, beds, blankets and pillows will be stored in Storage Room 317 on the 60' of the Electrical Auxiliary Building in both Units. The food is in the form of Meals Ready to Eat. Beds will be set up in room 102 on the 21' of the Electrical Auxiliary Building or other suitable areas.

### 4.17 STP Severe Weather Update Line

• An employee call-in line that should be used as the primary method of gathering information during the early stages of predicted severe weather. Do Not Contact the Control Room for severe weather information. The telephone number for the STP Severe Weather Update Line is 361-972-4636. A recorded message will provide information such as "DO NOT Report to Work"; "Report to Work at Designated Time"; "Site Severe Weather Information", e.g., Severe Weather Condition Level; or other work related information during severe weather conditions. This line of communications will be used prior to and during Tropical Storms or Category 1 Hurricanes that impact South Texas Project. This line is available 24 hours a day.

#### 4.18 Storm Information Hotline

The Storm Information Hotline, 800-849-3935, is designed for long term information needs. This line will be activated following the declaration of STP Severe Weather Condition 1. The intent of this line is to provide information to all personnel if South Texas Project experiences possible catastrophic storm damage (Typically, Hurricane Category 2 or higher) that results in loss of telephone communication in the local area. The Storm Information Hotline is located in College Station, TX and will be manned 24 hours a day by STP personnel. This line is available 24 hours a day after declaration of STP Severe Weather Condition 1.

#### 4.19 Notices of Enforcement Discretion (NOED)

• On rare occasions, such as during severe weather conditions, another government entity may issue an advisory assessment regarding the need for electrical power to protect public (non-radiological) health and safety. In these situations, when staying online may be a Licensing or Technical Specification violation licensees may request a NOED. Issue a NOED in accordance with procedure 0PGP05-ZN-0001, Preparation of Requests for Enforcement Discretion.

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5.0 References

- 5.1 0POP04-ZO-0002, Natural or Destructive Phenomena Guidelines
- 5.2 0ERP01-ZV-IN01, Emergency Classification
- 5.3 0POP01-ZO-0004, Extreme Cold Weather Guidelines
- 5.4 0POP03-ZG-0006, Shutdown from 100% to Hot Standby
- 5.5 0POP03-ZG-0007, Plant Cooldown
- 5.6 0PGP05-ZN-0001, Preparation of Requests for Enforcement Discretion.
- 5.7 CR 93-4499, SPR 933248
- 5.8 CR 89-1573, SPR 890882
- 5.9 SOER 82-015, 3.c, Freezing of Safety-Related Equipment
- 5.10 0PMP02-ZA-0004, Maintenance Department Severe Weather Program
- 5.11 ST-HL-AE-5010, Revised position on 10 CFR 50.63, Loss of all Alternating Current Power

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- 5.12 ST-AE-HL-92850, Implementation of the Station Blackout Rule (10 CFR 50.63) STP, Units 1 and 2 (TAC Nos. 68606 and 68607)
- 5.13 ST-HL-AE-3045, Response to 10 CFR 50.63, Loss of all Alternating Current Power
- 5.14 ST-HL-AE-5103, Supplemental Information to revised position on 10 CFR 50.63 Loss of all Alternating Current Power
- 5.15 NUMARC 87-00 Revision 1, Initiatives Addressing Station Blackout at Nuclear Power Plants

#### 6.0 Documentation

6.1 The Severe Weather Coordinator will retain any pertinent records generated as a result of declaration of a severe weather condition. The records will be used to generate a report evaluating the success of activation of the station severe weather response. The report should be retained as a permanent record. Any items noted during the review requiring additional actions or review will be entered into the Condition Reporting process. The applicable records generated should be retained with the report and cross-referenced in any resulting Condition Reports.

2	. • • •	0PGP03-ZV-0001 Rev. 10	Page 14 of 51
		Severe Weather Plan	
	6.2	<ul> <li>The Severe Weather Coordinator will retain the following records until following years records:</li> <li>Completed Form 1, Severe Weather Plan Annual Review</li> <li>Completed Form 2, Department Severe Weather Assignments</li> <li>Completed Form 3, Estimated Records Inventory List</li> </ul>	superseded by the
7.0	Suppo	ort Documents	
	7.1	Addendum 1, Storm Crew Organization	
	7.2	Addendum 2, Information Guidelines for Hurricane Season	
	7.3	Addendum 3, Information Guidelines for Freezing Weather	
	7.4	Addendum 4, Radio Stations Listing	
	7.5	Addendum 5, Severe Weather Update Line Instructions	
	7.6	Addendum 6, Storm Crew Notification Instructions	· :
	7.7	Addendum 7, Department SWC Notification Instructions	. ;
	7.8	Addendum 8, Storm Crew Briefing Desired Outcome	
	7.9	Form 1, Severe Weather Plan Annual Review	
	7.10	Form 2, Department Severe Weather Assignments	
	7.11	Form 3, Estimated Records Inventory List	
	7.12	Form 4, Storm Crew Roster	
	7.13	Form 5, Freeze Protection Inventory	
	7.14	Form 6, Records Inventory List	
	7.15	Form 7, Site Recovery Plan of Action	
	7.16	Data Sheet 1, EOF Director Checklist	
	7.17	Data Sheet 2, TSC Manager Checklist	
	7.18	Data Sheet 3, Severe Weather Coordinator Checklist	
	7.19	Data Sheet 4, Department Managers Checklist	
	7.20	Data Sheet 5, Department Severe Weather Coordinator Checklist	:
	7.21	Data Sheet 6, Department Severe Weather Records Custodian Checkli	st



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	Severe Weather Plan		•
Addendum 2	Information Guidelines for Hurric	cane Season	Page 1 of 1

- Prior to June 1 each year, the Department Severe Weather Coordinator or designee should instruct department personnel on actions required by the applicable Department Severe Weather Plan.
- Additional topics may include:
  - Early dismissal requirements during adverse weather conditions
  - Station severe weather safe structures
  - Local radio station information
  - Report back to work requirements after early dismissal
  - Station hurricane information hotline
  - Home hurricane preparations
  - NOAA Weather Radio Stations Frequencies (Addendum 4)
  - Evacuation routes
  - Review of the Severe Weather Plan 0PGP03-ZV-0001
  - Procedural actions based on severe weather impacting STP

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Addendum 3

## Information Guidelines for Freezing Weather

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# NOTE

#### (SOER 82-015, CR 89-1573 – Entire Addendum)

1.1.1

- Prior to October 31 each year, Department Severe Weather Coordinators should inform department personnel via meetings, memos, or bulletins on: (SOER 82-015, 3.c)
  - 1. Remaining aware of conditions that may promote localized freezing (e.g., open louvers or doors) during the course of their daily work. (SOER 82-015, 3.c)
  - 2. To immediately notify their supervisor of any condition or conditions that could promote localized freezing. (SOER 82-015, 3.c)
  - 3. Be aware of exposure hazards and symptoms.
  - 4. Severe Weather Plan 0PGP03-ZV-0001
  - 5. Review of Procedure 0POP01-ZO-0004, Extreme Cold Weather Guidelines with appropriate personnel.
- Additional topics recommended for personnel involved in system walk-downs:

## NOTE .

- All systems located within the boundaries of the following buildings are not considered susceptible to freezing weather conditions and will be <u>excluded</u> from the scope of the walk-down: Mechanical Auxiliary Building, Electrical Auxiliary Building, Reactor Containment Building, Fuel Handling Building, Essential Cooling Water Intake Structure, Turbine Generator Building. Systems located outside the walls of these buildings or on the roofs may be susceptible to freezing conditions.
- All yard systems (including Circulating Water Intake Structure, River Makeup Pumping Facility, yard systems inside and outside the Protected Area) which are potentially exposed to freezing weather conditions will be <u>included</u> in the scope of the walk-down. Also, Walk-down Criteria I will be addressed. Systems located outside the walls of these buildings or on the roofs may be susceptible to freezing conditions.

Walk-down Criteria: The following conditions are identified as potential problems when exposed to freezing weather.

- 1. Valve bonnets that are not insulated in a piping system that is insulated.
- 2. Freeze protection leaves a gap where the pipe either goes underground or enters a building.
- 3. Freeze protection ends before the tee or reducer at a pipe size transition, leaving a portion of the smaller pipe unprotected.

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Addendum 3 Information Guidelines for Freezing Weather Page 2 o				

- 4. Freeze protection ends at an equipment or system interface, leaving interface flanges or skid-mounted piping and instrumentation unprotected.
- 5. Local instrumentation (gauge glasses, pressure indicators, sensing lines, etc.) is not freeze protected, and space heaters are not provided in instrument cabinets.
- 6. Freeze protection is not continuous at pipe supports (Evaluation must be performed on a case-by-case basis to determine if fin-affected cooling is present.)
- 7. Insulation or heat tracing has not been restored following maintenance.
- 8. Ventilation outlets blowing directly on any water-filled instrument sensing line or instrument (Isolation Valve Cubicle or Diesel Generator Building only).
- 9. 6 inch and smaller piping and pumps that contain water and are not insulated must be evaluated for off-normal operation.
- 10. 2 inch and smaller piping and pumps that contain water and are not heat traced must be evaluated for off-normal operation.
- 11. 2 inch and smaller valves in a larger line that is not heat traced.
- 12. 6 inch and smaller valve in a larger line that is not insulated.
- 13. Freeze protection is not provided at tank vacuum breakers, level gauges, instrumentation, etc.
- 14. Freeze protection is not provided for extended vents and drains (Evaluation must be performed on a case-by-case basis to determine susceptibility/fin-affected cooling.)

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Addendum 4	Radio Sta	tions Listing	, .	Page 1 of 1
1 1	Local Radi	o Stations		
	Bay City	El Campo		
	KMKS-FM 102.5	KULI	P-AM 1390	
· · ·	KZRC-FM 92.5	Port Lavac	<u>a</u>	
	Houston/Lake Jackson	KVIC	C-FM 93.3	
 <b>\</b>	KODA-FM 99.1 KTRH-AM 740 KPRC-AM 950 KUHF-FM 88.7		· · ·	
	· ;			
			· · ·	
	NOAA Weather	Radio Statio	'ns	
•	Bay City	162.425	MHz	• • •
	Bryan/College Station	162.550	MHz	
	La Grange	162.550	MHz	
	Galveston	162.550	MHz	

Galveston 162.550 Houston 162.400

> 162.550 Lufkin · · · MHz

MHz

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	Addendum 5 Severe Weather Update Line Instructions					Pa	ge 1 of 1			
1.0	Instru (SWU	ctions for R JL)	ecording	g Message	on the So	uth Texas F	Project	STP Severe	Weather U	Jpdate Line
2.0	To Re	cord Messa	ige:							
	2.1	Dial 4633	(SWUL	, answers v	with curre	nt message	)			
	2.2	When SW	UL ansv	vers press '	*					
	2.3	When aske	ed for ac	cess code o	enter 9670	5600				
	2.4	Enter 0 to	turn offl	ine					·	
	2.5	Enter 7 1 #	#						. '	
	2.6	Record me	essage. S	lee exampl	es below					•
	2.7	Enter 9 to	stop reco	ording						
	2.8	To playba	ck messa	age, at this	point ente	er 81#				
	2.9	Enter 1 to	return of	nline						
	2.10	Dial 4643	to ensur	e message	has been	properly re	corded	i.		

NOTE: Words/numbers in Italics will vary according to day, date, and/or situation

# **DO NOT REPORT TO WORK MESSAGE:**

"SOUTH TEXAS PROJECT IS CURRENTLY IN SEVERE WEATHER CONDITION (3, 2, 1). DO NOT REPORT TO WORK TODAY (*DAY/DATE*) UNLESS YOU ARE A DESIGNATED MEMBER OF A STORM CREW" (REPEAT MESSAGE)

## **REPORT TO WORK MESSAGE:**

"SOUTH TEXAS PROJECT IS CURRENTLY IN SEVERE WEATHER CONDITION (3, 2, 1). ALL SOUTH TEXAS PROJECT PERSONNEL SHOULD REPORT TO WORK TODAY (*DAY/DATE*) AT YOUR REGULARLY SCHEDULED REPORTING TIME" (REPEAT MESSAGE)

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Addendum 6	Storm Crew Notification Instructions	Page 1 of 1

# 1.0 Activation Instructions for the Storm Crew:

- 1.1 Access voicemail system by dialing 8777. Access your personal mailbox followed by your password. Select option 2 to send a message. Record Severe Weather Instruction Message. Press # key and enter destination mailbox (4099). Press # key to send message. Press * key twice and hang up.
- 1.2 To Activate pagers dial ext. 8367, or 361-972-8367. Enter the pager number (1219). When prompted to input the number to call, enter 361-972-4099. Press the # key and hang up.
- 1.3 If it is necessary that you record a new message as conditions change, before you record the next message, you need to delete the previous message. To delete old message, dial 8777, then press 8 and enter mailbox 4099 followed by the password 4099. Press 1 to review message, then you can press 33, which takes you immediately to the end of the message where you can press 7 to delete the message. Press * key twice and hang up.
- 1.4 All pagers will activate. Severe Weather Storm Crew will call in to a "listen only" mailbox to retrieve message and follow instructions

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Addendum 7	Department SWC Notification Instru	ictions	Page 1 of 1

- 1.0 Activation Instructions for Severe Weather Coordinators
  - 1.1 From ON-SITE Dial 8777 * 4088, enter password 4088. Select option 4,3,1,2 to record a personal greeting which will be the Severe Weather Information. After the information greeting, include instructions to leave their name and number so we will have a record of who responded.
  - 1.2 From OFF-SITE Dial 1-800-403-7787 # 4088, enter password 4088. Select options 4,3,1,2 to record a personal greeting (Same as above)
  - 1.3 Pager Activation Instructions
    - 1.3.1 To Activate the Department Severe Weather Coordinators pagers, dial the pager number extension 8367 or from off-site, 1-800-403-7787 and press # to access the paging system. When prompted for the pager number, enter 2485, and then enter 4088 as the call back number.
    - 1.3.2 DSWCs will then receive the page and call in to hear the Severe Weather Information Message and instructions for leaving their name and phone number on mailbox 4088.

#### 1.4 MESSAGES

- 1.4.1 WEATHER INFORMATION: Give current weather conditions, projected conditions, Plan activation criteria, times, etc. Also, instructions included in the Severe Weather Plan. Give names of the TSC Manager and the EOF Director.
- 1.4.2 RESPONSE INSTRUCTIONS MESSAGE: AFTER THE BEEP, PLEASE LEAVE YOUR NAME, TELEPHONE NUMBER WHERE YOU CAN BE REACHED AND YOUR ESTIMATED TIME OF ARRIVAL AT STP. THANK YOU FOR YOUR RESPONSE.
- 1.5 Deletion of Recorded Messages
  - 1.5.1 Access your personal mailbox by dialing 8777, select *, enter mailbox 4088, enter password 4088.
  - 1.5.2 Follow voice prompts to delete messages.

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Addendum 8	Storm Crew Briefing Desired Out	comes	Page 1 of 1

Understand who is responsible for filling designated severe weather positions (Storm Crew Team
 1 & Storm Crew Team 2) and that all positions have been filled.

2.0 Understand Storm Crew Team responsibilities.

3.0 Understand when the Storm Crew Teams will be released to attend to offsite preparations.

4.0 Understand when the Storm Crew Teams should report back to the site.

5.0 Understand how the Storm Crew Teams will be notified to return to site.

6.0 Understand which facility the Storm Crew Teams should report to when returning to site.

- 7.0 Ensure all Storm Crew Team personnel have unescorted access to the Electrical Auxiliary Building.
- 8.0 Understand that an extended stay on site may be necessary.
- 9.0 Understand what necessities will be provided for Storm Crew personnel during any protracted stay on site. (Food, Water, Sleeping Accommodations)

10.0 Understand safety precautions during severe weather.

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	Severe Weather Plan		
Form 1	Severe Weather Plan Annual Review	· · · ·	Page 1 of 1
From:		Date:	
	(Department Manager)		·
To:			
	(Severe Weather Coordinator)		
l T	have reviewed the Severe Weather Dia	n for the	
",(Departm	ent Manager)	(Depa	urtment Name)
Department and have	e the following recommendations for revision to our Plan:	÷ *	
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Form 2	Department Severe Weather Assig	gnments	Page 1 of 1
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From:		Date:	
	(Department Manager)		
То:	 		
(*	Severe Weather Coordinator)	 	
The following individuals	have been designated as the Department Severe W	Veather Coordinator and I	Records Custodian
с л			
for the	(Department Name)	i,	·
			•
Departmental Severe Weat	her Coordinator:		•
Departmental Severe Weat	her Coordinator:		•
Departmental Severe Weat	her Coordinator:	Dhana ((Jaana)	
Departmental Severe Weat	her Coordinator: Phone (Work)	Phone (Home)	Pager
Departmental Severe Weat (Name)	her Coordinator:	Phone (Home)	Pager
Departmental Severe Weat (Name) (Name)	her Coordinator: Phone (Work) Phone (Work)	Phone (Home) Phone (Home)	Pager Pager
Departmental Severe Weat (Name) (Name)	Phone (Work) Phone (Work)	Phone (Home) Phone (Home)	Pager Pager
Departmental Severe Weat (Name) (Name) (Name)	her Coordinator: Phone (Work) Phone (Work) Phone (Work)	Phone (Home) Phone (Home) Phone (Home)	Pager Pager Pager
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Form 3	Estimated Records	s Inventory List	Page 1 of 1
	SOUTH TEXAS PROJECT ELEC ESTIMATED RECOR (HURRICANE RE	CTRIC GENERATING STATION DS INVENTORY LIST CORD STORAGE)	<u></u>
	· · · · · · · · · · · · · · · · · · ·	PAGE	OF
RECORDS CUST	DDIAN	EXT.	
DEPARTMENT	· .	DATE	· · · · ·
COMPLETE AND	FORWARD TO THE RMS RECORD	S COORDINATOR, N2002.	
PIC	KUP LOCATION	NUMBER OF	BOXES
·			
• .			
•			
	TOTAL		
	IOTAI		
NOTE: Determir archive b	e number of boxes based on ox dimensions.	BOX DIMENSIONS 12" X 1	5"
		Las	

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Form 4		Storm Crew Re	oster		Page 1 of 4		
· · · · · · · · · · · · · · · · · · ·			· ·	•	··· ·		
POSITION	SHIFT	– NAME	HOME TELEPH	IONE	PAGE		
Chemical/Radiochemical	1 ^{st.}			· · •	,		
Manager	2 ND	· · · · · · · · · · · · · · · · · · ·			·		
Emergency Planner	I ⁿ	· · · · · ·	•	· -			
	2 ^{nu}	······································	· · · ·				
Emergency Planner		······	· · · · · · · · · · · · · · · · · · ·				
	1 ST	· · ·			· ·		
Employee Support		······································		•			
	1 ST		· · · · · · ·	- · ·			
EOF Communications System Supervisor	2 ND			· · /· · · · · ·			
	1 ST			· · ·			
EOF Director	2 ND						
EOF Liaison	2 ND -	· · · · · · · · · · · · · · · · · · ·	· · · ·				
· · · ·	1 st	• • • • • •					
Operations Manager	· 2 ND	· · · · · ·			 ·		
	· 1 ^{sr}	······································	······································				
OSC Coordinator	2 ND				-		
	1 st			······································			
Purchaser	2 ND		······································				
Commentation Committee a	1 st			1. <b></b> .			
Severe weather Coordinator	2 ND			· · ·			

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	Form 4	Storm Crew Roster		Page 2 of 4

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POSITION	SHIFT	NAME	HOME TELEPHONE	PAGER
Site Public Affairs Spec	1 st			
	2 ND		· .	
TSC Administrative Staff	1*			
	2 nd			
TSC Communicator	1 st			
150 0000000	2 ND			
TSC Electrical Engineer	1 st			
150 Electrical Engliseer	2 ND			
TSC Maintananaa Managar	1 st			
150 Maintenance Manager	2 ND			
TEO Managar	lst			
150 Manager	2 ND			
TSC Mashaniaal Engineer	1 st	· · ·		
ISC Mechanical Engineer	2 ND			
TEO Nuclear Engineer	1 st			
ISC Nuclear Engineer	2 ND			
	1 st			
150 Kadiological Manager	2 ND			
	l st			
15C Security Manager	2 ND			

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	/	 Severe Weather Plan	 ,I,I		
Form 4		Storm Crew Roster		Page 3 of 4	1

POSITION	DEPT/DIV	SHIFT	NAME	HOME TELEPHONE
	Eles Maint	1 st	· · · · · · · · · · · · · · · · · · ·	
Electrical Supervisor	Elec. Maint	2 nd		
Flectrician	Elec Maint	1 st		
		2 nd		
Electrician	Elec. Maint	. 1 _{st}		
· · · · · · · · · · · · · · · · · · ·		. 2 nd		·
Materials Handler	NPMM	<u></u>		
	HIT COLUMN	. 2 nd	to prove and the second	n na star star star star star star star sta
Materials Handler -	NPMM	<u> </u>		
<u>n</u>		2 ^{ng}		
Mechanical Maintenance	Mech. Maint	<u>l"</u>		
	· · ·	2"		· · · · · · · · · · · · · · · · · · ·
Mechanic	- Mech. Maint			
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
Mechanic	Mech. Maint	2nd		
·		 		
Mechanic	Facilities	2 nd		
	<u>·</u> · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
Electrician	Facilities	2 nd	· · · · · · · · · · · · · · · · · · ·	
		: l st		• • • • • • • • • • • • • • • • • • •
Transportation	Facilities	2 nd		· · · · · · · · · · · · · · · · · · ·

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	Severe Weather Plan		
Form 4	Storm Crew Roster		Page 4 of 4

POSITION	DEPT/DIV	SHIFT	NAME	HOME TELEPHONE
L&C Supervisor	L&C Maint	1#		· · · · · · · · · · · · · · · · · · ·
lac Supervisor		2 nd		
L&C Tachnician	L&C Maint	1"		
Tee Teennetan		2 nd		
L&C Technician	L&C Maint	1=	· · · · · · · · · · · · · · · · · · ·	
		2 nd		
Substation Technician	Center Point	l [#]		
		2 nd		

• On-shift Personnel from Health Physics, Chemistry, Plant Operations, Security, and Maintenance are also members of the Storm Crew.

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Severe Weather Plan							
Form 5	Freeze Protection Inventory	- ·	Page 1 of 2				
Stock Code	609-171 is used to obtain the Freeze Protection Storage Container	from Warehou	se 32 Annex.				
	Freeze Protection Container						
Minimum							
Quantity Read / Actual	Description	Stock Code					
20 /	Heat Trace Tape, 6 Ft, 36-Watt (6-Watt / Ft)	501-31319	•				
15 /	Heat Trace Tape, 12 FT, 72-Watt (6-Watt / Ft)	501-31320	۰ ۱				
15 /	Heat Trace Tape, 18 FT, 108-Watt (6-Watt / Ft)	501-31321	· · · · ·				
25 /	Extension Cord, 50 FT	501-1878					
10 /	Extension Cord, 100 FT	501-1879					
400ft /	Heater Cable, 6-Watt, Cut-To-Length	501-31463	· · · · · · · · ·				
4 /	Power Connector Kit, Heat Trace Cable (discontinued item)	501-31464	·				
3 /	Heat Gun (Also available in the Tool Room)	661-30855					
12 /	Skrim-Foil-Kraft Tape, 4" x 50 Yd	560-96026	· · ·				
2 /	Rubetex Adhesive Foam Rubber, Pint	560-20034	··· ·				
1 /	Rubetex 1/3" x 36" x 48" Sheet	501-34001	· ·				
4 /	LPG Infared Heater 16.000 BTU/Hr Canacity	501-31322					
2 /	Pump. Hand Transfer. for 55 Gal Drums of Kerosene	661-30718					
4 /	The Wire $\#16 AWG$ SS (5 Lb Spool)	501-5206					
		501 5200					
	Warehouse 32 Annex	۰.					
	Wateriouse 32 Timer	ć					
3 /	Roll Insulation/Duct Wrap, 1-1/2" Thick	501-34036					
1 /	Roll of Jacketing Insulation Rolled Smooth	501-2525	•				
1 /	Temporary Matt Insulation 1/3" x 60" x 75' Roll	501-33876	•				
8 /	Portable Kerosene Heater 150 000 RTI/Hr Canacity	501-31318					
15 /	120V Electric Heaters 1500 Watt Canacity	501-35520					
8 /	** Propage Gas Heaters 175 000 - 350 000 RTI I/Hr	501-35517					
<u> </u>	W/Gas Hose 1/" ID x 40' I ong and	501-35510					
• .	Regulator (Keen Heater, Hose & Regulator as a set)	501_35521					
	(Use: FHB Air Intake Heaters)	201-22221					
8 /	Can Safety 5 Gallon (for Kerosene)	562-167					
<u> </u>		202-107					

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· · · · ·	Severe Weather Plan		• ) • )
Form 5	Freeze Protection Inventory	· · · · ·	Page 2 of 2
	Gas Cylinder Storage Area		
Minimum	ous cynnael blong o mea		
Quantity		<u>.</u>	
Reqd / Actual	Description	Stock Code	•
· -			
16 /	Propane Gas Bottles, 100 Lb (for use with C/B 501-35517,	501-35518	
	501-35519 & 501-35521)		, ·
6 /	Propane Gas Bottles, 60 Lb (for use with C/B 501-31322)	501-24477	. <b>`</b>
	Elementia Starson Duilding		
	Flammable Storage Building		
(See Note)	Kerosene, 55 Gallon Drum (discontinued)	560-11021	
(			
			• .
NOTE: Kerose	ene is available from a bulk storage tank at the Fab Shop. Safety	Cans (metal fuel	containers),
Stock	Code 562-167 are available in the Annex.		
** These	itams SHALL be released only at the direction of the Direct March	ar or designed	
Inese	items STALL be released only at the direction of the Plant Mana	iger of designee.	
Completed By:			
	Signature	Date	

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	· · · · · · · · · · · · · · · · · · ·	Severe V	Weather	Plan	:					
Form 6		Recor	ds Inven	tory List	,		•		Pag	e 1 of 1
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		<b></b>								<u> </u>
· · ·	REC	CORDS II	NVENT	ORY LI	ST				•	• •.'
		Humcane	Record	Storage	•	• .		:		• •
Department	، :					Date	•			
Department Severe Weather	Records C1	ıstodian								•
Department Bevere Weather		-	,			·		;		
Telephone No. (Work)	•	. <u> </u>				•	:		:	
Records Return Location		•			•	,		1		
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QA Records			_ <u>B</u>	ox Numl	per(s)	· .			•	
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``````````````````````````````````````	Severe Weather Plan	,								
Form 7	Site Recovery Plan of Action		Page 1 of 1							

ITEM #	SYSTEM FACILITY	PROBLEM DESCRIPTION	ASSIGNED TO	PRIORITY
				· · · · · · · · · · · · · · · · · · ·
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			Severe Weath	er Plan	- I - <u>- , .</u>	l <u>-,, -, _, _, _, _</u> , _, _,	
Da	ta Sheet 1		EOF Director	Checklist		Page 1 of 1	
			ا ما ایک و ایک میکود. ایک ایک و ایک میکود ایک میکو ایک میکود ایک میکود ا				i i i i i i i i i i i i i i i i i i i
Actio	n Step				• <u>•</u> •	Date/Tir	ne
1.0	DriefEucon				nditiona		
1.0	at STP.	uve managemen	It and Owners of sev		manuons	· ,	
20	Inform the l	Nuclear Regulato	ry Commission of a	Il preparatory :	ections for	- <u></u>	
2.0	Severe Wea	ther.		ai preparatory (-	
3.0	Provide Sto	rm Crew oversig	ht and guidance for	declared sever	e weather	·	
•	conditions.				- T		
1.0	Contact Ow	ners to ascertain	equipment availabi	lity.			
5.0	Coordinate	Severe Weather :	activities with Texa	s Department o	f Public Safety.	- <u></u>	
;	Matagorda (County Emergen	cy Management, NI	RC and FEMA	as necessary.		
5.0	If a Hurrica	ne is expected to	impact STP within	72 hours, then	provide the	•	
	following in	formation to the	NRC Region IV:		-	, , ,	
	6.1 STP	's capability to p	rovide sleeping acco	ommodations, f	food, etc.,		
•	insic	le the power bloc	ck for licensee and N	NRC staffs.		<u> </u>	
	6.2 The	status of any prej	paratory actions to r	nitigate potenti	al impacts		
	as ne	ecessary, to ensur	nd the initiation of c re plant safety.	other precaution	ns and actions,		· · .
7.0	If Hurricane	is expected to ir	mpact STP within 2	4 hours, then p	rovide the		<u> </u>
	following in	formation to NR	C Region IV:	·	· · · ·		
	7.1 Upda	ate current prepa	ratory status of STP	•	· · · · · ·	·. ·	
	7.2 STP	's Units current/r	projected operating	status.		ч <u>.</u>	
	7.2 Dias				• •		
	7.5 Disc	USS INKC S CO-10	cation status.	· · · · ·		· · ·	
8.0	Order early	dismissal approx	cimately 24 hours pr	rior to the hurri	cane impacting	ι · ·	
				• • • • •	•		· · · ·
J. 0	Evaluate the direct initiat	e need for Notice	es of Enforcement D e with 0PGP05-7N	iscretion (NOE -0001. Prenara	D), if required		
	Requests for	r Enforcement D	biscretion.				
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,		Severe	Weather Plan	لا <u>ست</u> ر الم	
D	Data Sheet 2	TSC	Manager Checklist	•	Page 1 of 3
Actio	on Step				Date/Time
1.0	Maintain this I	Data Sheet and use a log to a	record other pertinent in	formation.	
2.0	Obtain a briefi	ng from the Shift Superviso	or or Operations Manage	er:	
	Operation	l status of Unit 1 and 2.		_	
	• Severe We	ather Condition.			
	• Status of e	quipment and repair activiti	es.		
	• Status of S	tate and County communic	ations.		_
	• Status of o	nsite protective actions.			
3.0 ·	Obtain TSC a	d OSC activation readiness	3.		•
4.0	With the Seve Weather Cond of any recomm	e Weather Coordinator an tion for possible reclassific ended changes.	d EOF Director, review ation and inform the Sh	Severe ift Supervisor	
5.0	Provide suppo	rt to the Shift Supervisor a	s requested.	-	
6.0	Support Opera 0POP04-ZO-0	tions implementation of p 002, Natural or Destructiv	rocedure e Phenomena Guideline	es	· ·
7.0	With the EOF personnel requ	Director, evaluate Storm C ired for conditions.	Crew staffing to ensure	necessary	
8.0	If not already Director early 24 hours prior	one evaluate and recomm dismissal of personnel. Ea to landfall for a hurricane vere Weather Site Preparat	end to Executive Mana arly dismissal should be impacting STP. This n ion Team.	gement / EOF considered nay also	

9.0 Obtain periodic updates on the storm's location, current conditions, area forecast, and extended forecast for the next 24 hours from the Severe Weather Coordinator.

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10.0 Provide periodic reports on the storm's location, current conditions, area forecast, and extended forecast for next 24 hours to the Storm Crew.

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Data Sheet 2		TSC Manager Checklist	·	Page 2 of 3

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		· . ·
Action	1 Step	Date/Time
11.0	Ensure Storm Crew food and water supplies have been checked.	
12.0	Verify all Diesels are operable.	1 · · · · · · · · · · · · · · · · · · ·
13.0	Verify all outdoor gantry cranes are secured prior to >30 MPH winds.	/ <u></u>
14.0	Verify Emergency Diesel Generator Fuel Oil Storage Tanks, Demin water tanks, Chem Storage tanks are filled.	
15.0	Obtain regular updates from Operations, Radiation Protection, Chemistry, Engineering and Maintenance.	ана стана 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 — 1947 —
16.0	Prepare for NRC Site Team arrival.	
SEVE	RE WEATHER CONDITION ONE	
17.0	If not already completed, activate Severe Weather Storm Crew.	ана 1947 година 1947 годи 1947 годи 1947 година 1947 годи 1947 година 1947 година 1947 го
18.0	Evaluate Emergency Plan Action Levels (EALs) and determine potential for entry into Emergency Plan, confer with EOF Director and Shift Supervisor.	
19.0	If an Emergency is declared, relieve the Shift Supervisor of Emergency Director responsibilities and make the appropriate State, County and NRC Notifications.	аналанан аларын 1997 - Аларан Аларан 1997 - Аларан Аларан Аларан 1997 - Аларан Аларан Аларан 1997 - Аларан Аларан Аларан
20.0	Severe Weather Response Team Activities:	<u></u>
	• Determine necessity to form and dispatch a Severe Weather Response Team.	:
	• Direct the Maintenance Manager to inform the Operations Support Center of the need for a team and its function.	
	• Prioritize corrective actions and inform the Operations Support Center.	·
	• Maintain authority over all Severe Weather Response Teams dispatched and recall teams as necessary.	
	• For safety reasons ensure all personnel are dispatched in teams.	÷
21.0	Direct the Maintenance Manager to establish plans for corrective actions and repairs.	

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	•	Severe Weather Plan		
Data Sheet 2	• •	TSC Manager Checklist		Page 3 of 3

Action Step	Date/Time
22.0 Verify Turbine Generator Lube Oil and other pumps tested.	
23.0 Verify NIS conducted communications checks.	<u> </u>
24.0 Verify Standby Diesel Generators testing complete.	·
SEVERE WEATHER RECOVERY	
25.0 Once personnel hazards are diminished, direct the Maintenance Manager to dispatch facility evaluation teams to record storm damage.	• .: •
26.0 Assemble status information on station operational and radiological conditions and brief the EOF Director and Shift Supervisor.	·
27.0 Direct the Maintenance Manager and OSC Coordinator to develop a list of activities and tasks that should be completed using Form7, Site Recovery Plan of Action.	
SEVERE WEATHER TERMINATION	.,
28.0 Provide a list of any supplies or forms needing replenishment to the Severe Weather Coordinator.	:
29.0 Instruct TSC and OSC personnel to turnover documents generated during the emergency to the Severe Weather Coordinator.	

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••		Severe Weat	ther Plan	_	
Data Sheet 3		Severe Weather Co	oordinator Checl	klist	Page 1 of 4

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Actio	n Step	Date/Time
PREI	PARATORY SEVERE WEATHER ACTIONS	• • •
1.0	Prior to May 1 each year notify appropriate Department Managers of the procedural requirements contained in Section 4.0.	
2.0	Prior to May 1 each year ensure a Hurricane Package is prepared and sent to all departments, if required.	
3.0	Prior to June 1 each year schedule a site preparation status meeting with all departments to discuss and review severe weather impact on STP and the Severe Weather Plan.	••• • •
4.0	Prior to June 1 each year assist with severe weather preparations for the entire station.	
5.0	Prior to June 1 each year review Station severe weather preparations and report status to Executive Management.	
6.0	Prior to June 1 each year schedule a meeting of key stakeholders (e.g., Maintenance, Facilities/Projects, Human Resources and Payroll) to ensure consistency of Storm Crew compensation for crews and roll back to normal shifts.	
7.0	Use Impact Weather for monitoring weather forecasts and anticipate entry into severe weather conditions that will impact STP. STP Location - N28.80 W096.05 (Decimal Degrees).	· · · · · · · · · · · · · · · · · · ·
8.0	To contact the Department Severe Weather Coordinators, implement Addendum 7, Department SWC Notification Instructions.	·
9.0	If a Tropical Storm or Hurricane is predicted to impact STP, consider scheduling a preparatory meeting to discuss staffing of actions needed or in- process for each Severe Weather Condition.	· • . · · ·
10.0	If the predicted storm intensity is such that a Storm Crew relief team will be needed (Category 2, 3, 4 or 5 Hurricane), both Storm Crew Teams should report to the Unit 1 TSC & OSC.	• .
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Data Sheet 3	Severe Weather Coordinator Checklist	Page 2 of 4

Actio	n Step	Date/Time	e
11.0	If the predicted storm impact is of a lower intensity, Management may decide that only Storm Crew Team 1 is needed (Strong Tropical Storm or Category 1 Hurricane). This team should report to the Unit 1 TSC/OSC.		
12.0	When Management decides to release Non-Storm Crew personnel from work due to Severe Weather, activate the severe weather telephone line using Addendum 5, Severe Weather Update Line Messages.	·. 	
13.0	When Management decides personnel should return to work, activate the severe weather telephone line using Addendum 5, Severe Weather Update Line Messages.		• . •
14.0	If the Severe Weather Update Line fails, forward the emergency message to local radio stations for broadcast using Addendum 4.	···	
SEVE	CRE WEATHER CONDITION THREE		
15.0	Assist the Shift Supervisor with obtaining current weather information.	· · · ·	
16.0	Notify the Storm Crew when entry into Severe Weather Condition Three is required.		
17.0	Upon entering Severe Weather Condition Three or at Management Discretion, Storm Crew personnel will meet for a briefing by the Severe Weather Coordinator, EOF Director and the TSC Manager (See Addendum 8, Storm Crew Briefing Desired Outcome). Craft personnel may not need to attend this meeting. They will be provided storm-related information by their supervisor.	···	
18.0	Monitor weather forecasts and conditions and evaluate potential impacts to station and vital equipment.		
19.0	Coordinate severe weather updates and response activities with the Texas Department of Public Safety, Matagorda County Emergency Management personnel, and FEMA, as necessary.		
20.0	Compile craft Storm Crew Roster information from department managers or Department Severe Weather Coordinators.		
21.0	Report on severe weather conditions and prognosis to the Department Severe Weather Coordinators and the Executive Management Team.	<u> </u>	

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Da	ata Sheet 3		Severe Weat	her Coordinator	Checklist	¥	Page 3	of 4
Actio	n Step		· - ·				Date/1	ſime
ENTI	RY INTO CON	DITION	TWO	s. 11 to		ه ر به		
22.0	Assist the Shi distribute the	ft Supervis data as nec	sor with obtaining cessary.	g current weather	r information	n and		
23.0	Notify the Exe Condition Tw	ecutive Ma o is requir	anagement Team ed.	when entry into	Severe Wea	ther .		
24.0	Obtain the EC	F Director	r concurrence to	start staffing the	Unit 1 TSC	& OSC.	÷ :	· · .
25.0	Use ICS Scree monitor site w the primary (F	en EM-01 : vind speed EMSN0001	2601 MET TOW using the LOWE 1) or backup (EM	ER 15 MINUTE R WIND SPEEI IXN0012) data p	AVERAGI DAVG valu oints.	E to es from		
26.0	Monitor weath station and vit	ner forecas al equipmo	sts and conditions ent.	and evaluate po	tential impa	cts to		
27.0	During Severe and prognosis Weather Site I	e Weather to the Dep Preparation	Condition Two, 1 partment Severe V n Team as applica	report on severe Weather Coordin able.	weather cond ators and the	litions e Severe		;
28.0	When directed with Addendu	l by the EC m 6, Storn	OF Director, call n Crew Notificat	in the Storm Cre ion Instructions.	w in accord	ance		
29.0	If entry into S Information H	evere Wea lotline.	ather Condition O	one is imminent,	activate the	Storm		
SEVE	RE WEATHE	R COND	ITION ONE					
30.0	Assist the Shi distribute the	ft Supervis data as nec	sor with obtaining cessary.	g current weathe	r information	nand	<u>.</u>	•
31.0	Notify the Sto	orm Crew v	when entry into S	evere Weather C	Condition Or	e is		

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·····	Severe Weather Plan		
Data Sheet 3	Severe Weather Coordinator Checklist		Page 4 of 4
· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·

Actio	n Step	Date/Tim
32.0	Evaluate Emergency Plan Action Levels (EALs) and determine potential for entry into Emergency Plan. Confer with Shift Supervisor, EOF Director, and TSC Manager, as needed.	
3.0	Monitor weather forecasts and conditions and evaluate potential impacts to station and vital equipment.	
34.0	Report on severe weather conditions and prognosis to the EOF Director and	
	TSC Manager.	
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	•••		· · · ·	Sev	ere Weathe	r Plan	• •		-	
D	ata Sheet	4		Depar	tment Mana	gers Checklist		× ·	Page 1 of 2]
Actio	on Step				· · · · ·				Date/Initial	_
Retai	in this re	cord u	ntil supers	eded by the	following y	ears record.		÷	· · · · · · · · · · · · · · · · · · ·	
1.0	Prior to and Re Coordi	May 1 cords C nator.	l of each ye Custodians	ear designate using Form 2	Department 2 and submit	t Severe Weather to the Severe V	er Coord Weather	linators	· · · ·	
2.0	Check sufficie Replen	departr ent as re ish mis	nent emerg equired by sing suppli	ency supplie this Plan, or es as require	es and verify department d by invento	on-hand quanti severe weather ory results.	ities are procedu	res.		
3.0	Assist (personi	he Sev nel and	ere Weathe coordination	r Coordinate	or, as reques mentation of	ted, in distribut Tthis plan.	ing data	to site	· · · · · · · · · · · · · · · · · · ·	
4.0	Ensure perform Form 1 Weathe	the De ning an , Sever er Coor	partment S annual rev e Weather dinator)	evere Weath iew and revi Plan Annual	er Plan is m sing as nece Review and	aintained curren ssary. (Report o l submit a copy	nt by completi to the S	on on evere		
-	4.1	As nec person staffin	essary Dep nel and ens g (48 hours	artment Sev oure adequate).	ere Weather e number of	Plans should a individuals to r	ddress o neet pro	nshift tracted	· · · · · · · · · · · · · · · · · · ·	_
5.0	Departi address temper offsite	ment S the co atures, power,	evere Weat nditions du etc.) and co mud, resid	her Procedur ring severe v onditions wh ual flood wa	res should in weather, (hig ich result fro iter, wildlife,	clude supply cl gh winds, flood om the severe w , etc).	hecklists ing, colc veather (which l loss of		
	5.1	Examp • Ex • Fre • Op	ole equipme tra heaters ceze preven cerable vehi	ent for cold v tion equipm cles (departi	veather that ent (anti-free ment cars, tr	departments sho eze, covers, hea ucks, forklifts, o	ould con at tape, e etc.)	isider: tc.)		_
	5.2	Examp consid • Pro etc • Re bat • Co	ole equipme er: eparatory ec .) covery equ tteries, trasl mmunicati	ent for other quipment (tio ipment (port n pumps, foc on equipmer	severe weath e downs, sho able power g od, gas chille nt (e.g. teleph	her that departm pring, sandbags, generation equi prs/coolers, etc.) hones, radio sta	nents sho , trash pu pment, e) ation	ould umps, extra		

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Actio	n Step	Date/Initial
6.0	Review basic severe weather information package provided by the Severe Weather Coordinator, add the department's specific items and have presented by the Department Severe Weather Coordinator or distributed to department personnel.	
7.0	Prepare assigned department vehicles for use during severe weather conditions.	· · · · · · · · · · · · · · · · · · ·
8.0	Provide hurricane information packages to department personnel, as requested.	· · · · · · · · · · · · · · · · · · ·
9.0	Meet with the Severe Weather Coordinator to review plans and establish ground rules for the severe weather season.	
10.0	Assign individuals to prepare the site for severe weather while Storm Crews make preparations at home. These individuals make up the Severe Weather Site Preparation Team.	
11.0	Assign Storm Crew personnel as required to support the severe weather condition.	
12.0	Dismiss personnel early when directed by appropriate Executive Management.	· . · . · ·
13.0	 In the event of a Tornado Warning that directly impacts STP, ensure department personnel are directed to a safe location as indicated below. Personnel should NOT be directed to go outside. Reactor Containment Buildings Mechanical-Electrical Auxiliary Buildings (preferred) 	
	 Fuel Handling Buildings Diesel Generator Buildings Essential Cooling Water Pump Structure 	a.
	• Other Buildings - The lowest level floor and near the inner most walls	

• Owner Controlled Area - Sheltering outside the Protected Area should be the lowest floor near inside walls away from windows.

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Actio	n Step			Date/Initial
Retai	n this record u	ntil superseded by the following years record.		· · · · · · ·
PREF	PARATORY S	EVERE WEATHER ACTIONS		
1.0	Prior to April hurricane supp Buildings Roc	15 of each year NPMM shall inventory and order n plies. Supplies are stored in both units Electrical Au om 317.	ecessary Ixiliary	· · · · · · · · · · · · · · · · · · ·
2.0	Prior to May 1 name, contact Assurance Re- will directly in	of each year provide the Records Management Co number, and an Estimated Records Inventory List cords requiring storage during adverse weather con- npact STP using Form 3, Estimated Records Invent	ordinator the of Quality ditions that tory List.	
3 . 0	Prior to May 1 their Severe W Form 1.	l of each year departments shall review and revise (Veather Plan and submit to the Severe Weather Coo	if applicable) rdinator. Use	
4.0	Prior to May 1 verify that on-	of each year departments shall check emergency s hand quantities are sufficient. If not, replenish.	upplies and	· . ·
5.0	Prior to June 1 facilities are a	of each year Records Management shall determine dequate for estimated archived records.	e storage	· · · ·
5 .0	Prior to June 1 Coordinator a Department S	of each year all departments meet with Severe We nd review Station/Department severe weather plans evere Weather Information Program. Revise as nec	ather . Also, review essary.	
7.0	Prior to June 1 information is as a guide.	l of each year all departments should ensure Severe passed onto department personnel as required usin	Weather g Addendum 2	
8.0	Prior to June 1 Coordinator fo	l of each year all departments should contact the Se or required Hurricane Packages if needed.	vere Weather	

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D	ata Sheet 5	Department Severe Weather Coordinator Check	list	Page 2 of 6
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Actio	on Step			Date/Initial
9.0	Prior to June determine act Condition Re	1 of each year all departments should perform a site wal tions required in preparation of Hurricane Season. Initia port as necessary.	k-down to te	
10.0	Prior to June Storage boxe	1 of each year Brock shall deliver Quality Assurance Re s to all departments.	cords	
11.0	Prior to June Assurance Re	1 of each year Records Management shall deliver Qualit ecord Storage box labels to all departments.	y	
12.0	Prior to June Coordinator	1 of each year, all departments shall notify the Severe W when actions are complete.	eather -	
13.0	Prior to Octo Tracing/Free	ber 1 of each year Maintenance shall perform all Heat ze Protection System PMs		· · · · · · · · · · · · · · · · · · ·
14.0	Prior to Octo Storage Cont	ber 1 of each year NPMM shall inventory the Freeze Pro ainer using Form 5, Freeze Protection Inventory.	tection -	
15.0	Prior to Octo weather infor Weather as a	ber 31 each year ensure department employees receive so mation using Addendum 3, Information Guidelines for I guideline.	evere Freezing	
16.0	Prior to Octo temporary sh susceptible to	ber 31 of each year Systems Engineering shall evaluate r elters or temporary modifications for any areas or equipr o freezing and implement as required.	need for nent	
17.0	Prior to Octo Unit Shift Su Building and drained to pre	ber 31 of each year Systems Engineering shall provide to pervisor, and maintain current, a list of Mechanical Aux Fuel Handling Building chilled water cooling coils that event freezing.	each iliary need to be	
18.0	Prior to Octo downs of sys initiate Cond	ber 31 of each year Systems Engineering shall perform v tems to identify deficiencies that could promote freezing ition Report (CRs) to repair or compensate for these defi	valk- and ciencies.	

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Action	n Step	Date/Initial
19.0	Prior to October 31 of each year Systems Engineering shall review existing temporary modifications to ensure adequate freeze protection is provided to temporary equipment, and temporary freeze protection measures are adequate.	
20.0	Prior to October 31 of each year maintenance ensures temporary shelters, specified by SED, have been installed to withstand normally expected winds (e.g., made of canvas, plywood, etc.) with temporary heaters inside and any necessary temporary lighting.	
21.0	Prior to October 31 of each year Work Control ensures all SRs required for freeze protection have been identified and scheduled for work.	n an
22.0	Prior to October 31 of each year Plant Operations ensures all equipment and systems outside the Reactor Containment Building and under Plant Operations Department jurisdiction have been inspected for deficiencies that could promote freezing, and SRs to repair or compensate for these deficiencies have been initiated. Completed IAW reference 5.3, Section 5.1.4.	
23.0	Prior to October 31 of each year Facilities Management ensures all buildings outside the power block have been prepared for cold weather.	· · · · · · · · · · · · · · · · · · ·
24.0	Prior to October 31 of each year all departments shall notify the Severe Weather Coordinator when actions are completed.	<u> </u>
SEVE	RE WEATHER CONDITION THREE	
25.0	Provide the names of individuals assigned to fulfill the department responsibilities to the Severe Weather Coordinator. These individuals make up the Severe Weather Site Preparation Team and Storm Crew. Form 4, Storm Crew Roster can be used as a guide for positions needed to support the severe weather condition declared.	
26.0	Commence Owner Controlled Area clean-up.	· · · · · · · · · · · · · · · · · · ·
27.0	Severe Weather Site Preparation Team begins securing department work areas.	
28.0	Check food and water supplies.	·

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D	ata Sheet 5	Department Severe Weather Coordinator Checkl	ist ·	Page 4 of 6
Actio	n Step			Date/Initial
29.0	Implement De	epartment Severe Weather Plans.	•	
30.0	PMPI should vault, and fill Annex, move	tie down loose material, verify cribbing has been placed is sandbags. (Prepare 2 pallets of sand bags [spare] and stag to the FHB Doors at Condition 3.	in the ge in	. :
31.0	Ensure all mo	bile cranes are secured.	:	
32.0	Should condit ready to be tra surveillance.	ions warrant, ensure QA records are at an interim storage ansported to the vault. Must be maintained under constar	e location at	
33.0	Plant Protection	on may hire additional security guards, if appropriate.		<u> </u>
34.0	Perform perio department co	dic inventory check of emergency tools and equipment u ontrol.	nder	· .: .:
35.0	Electrical veh when not in u	icles should be fully charged or connected to a battery ch se.	arger	: .
36.0	Conduct Site	walk-down.		
SEVE	ERE WEATHE	ER CONDITION TWO		· ·
37.0	Implement De	epartment Severe Weather Plans.		·.
38.0	Remove loose structures.	e trash and materials and tie down temporary and portable	2	
39.0	Designate stor restrictions.	rage locations for initial repair parts identified for plant		
40.0	Mechanical M Cranes are see	faintenance ensures the RCB Equipment Hatch and all G cured.	antry	·
41.0	Package in pr Severe Weath	ocess and Quality Records as directed by the TSC Manager Coordinator. Fill out Form 6.	ger or	· :
42.0	As directed b move Quality	y the TSC Manager or Severe Weather Coordinator, PMI Records to the vault.	PI should	

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Actio	Action Step		Date/Initial		
43.0	Move pre-designated emergency equipment inside the protected area.				
44.0	Provide for means of communication with storm crews (telephones, radio station, broadcasts, etc.).				
45.0	Facilities/Projects Department, based on expected severity of the storm, determine which vehicles and equipment may be relocated to the levee.	、 :		.·	
46.0	When possible, assist the Facilities/Projects Department by relocating vehicles in the OCA to the levee (south of the gas station) and vehicles in Protected Area to TGB Truck Bays (do not block in the ambulance or transport vehicle). Leave 1 truck in the OCA and 1 truck in the Protected Area.		•		
47.0	Vehicles designated as essential for departmental use may be scheduled for later relocation.	· :	;		
48.0	Sandbag doors (2-hour duration).				
49.0	NIS to perform software backup as necessary.				
50.0	Charge cell phone batteries.				
51.0	Perform site communications test.		· .		
SEVE	ERE WEATHER CONDITION ONE				
52.0	Implement Department Severe Weather Plans.			-	
53.0	When directed, recall Storm Crews from home to work.				
54.0	Recommend vehicle parking away from Essential Cooling Water Pond.				
55.0	Dismiss station personnel as directed.				
56.0	NIS to backup and shrink-wrap software.				

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Actio	n Step	Date/Initial	
57.0	When the Security Force Supervisor is notified of a projected Hurricane arrival (sustained winds in excess of 73 miles per hour at the South Texas Project), ensure that all exterior doors and hatches to the following buildings and vital areas are secure:		
	Mechanical and Electrical Auxiliary Buildings	• • • • •	
•	Reactor Containment Buildings		
۰ .••	Diesel Generator Buildings	. • · • • • • • •	
	• Essential Cooling Water Intake Structure	·	
58.0	Lock all buildings down.		
59.0	Test established hotline and offsite media interface.		

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Data Sheet 6 Department Severe Weather Records Custodian Checklist		Page 1 of 1	

Action Step		Date/Initial			
When completed, retain this record until superseded.					
1.0 As directed by Department Severe Weather Coordinator or a member of the Storm Crew, implement collection and storage of department records for safekeeping. Need to maintain flexibility with planning based on projected severe weather conditions.		-	,		
2.0 When advised by the TSC Manager or Severe Weather Coordinator, retrieve QA records and In-Process Quality Required Documents and Records from department area.	· · ·	• 7 *			
• Inventory records and package archive boxes using Form 6, Records Inventory List.			_		
• Designate boxes with a red dot which contain records that will impact pla operation, site access, or safety system work. Boxes marked with red dot will be retrieved first.	nt s				
 Move packed, marked boxes to pickup point designated on Form 3, Estimated Records Inventory List. 	· · ·	· · · · · · · · · · · · · · · · · · ·	_		
• Custody of records is transferred to Record Management when an individ	ual ·				

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