

UN 2 2 2000 L-2000-139 10 CFR 50.54(q) 10 CFR 50 Appendix E

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

Re: Turkey Point Units 3 and 4 Docket Nos. 50-250 and 50-251 Emergency Plan Implementing Procedure Change

The following Emergency Plan Implementing Procedures have been revised: 0-EPIP-20101, Duties of the Emergency Coordinator 0-EPIP-20132, Technical Support Center (TSC) Activation and Operation 0-EPIP-1102, Duties of the Recovery Manager 0-EPIP-1212, Emergency Operation Facility (EOF) Activation and Operation 0-EPIP-20104, Emergency Response Organization Notification/Staff Augmentation 0-EPIP-20126, "Offsite Dose Calculations"

Pursuant to the requirements of 10 CFR 50.54(q) and 10 CFR 50 Appendix E, one copy of each of the revised procedures is enclosed. A summary of changes to each procedure is attached. The implementation date for the revisions was June 1, 2000, for all but 0-EPIP-20126. The implementation date for the revision to 0-EPIP-20126 was June 8, 2000. FPL has determined that the changes described do not result in a decrease in the effectiveness of the Emergency Plan.

Very truly yours,

R. J. Hovey Vice President Turkey Point Plant

CLM

Attachment, enclosures

cc: Regional Administrator, Region II, USNRC (2 copies) Senior Resident Inspector, USNRC, Turkey Point Plant (w/o enclosure)

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Attachment to L-2000-139 Page 1 of 1

SUMMMARY OF CHANGES

The changes for 0-EPIP-20101, 0-EPIP-20132, 0-EPIP-1102, 0-EPIP-1212, and 0-EPIP-20104 are summarized as follows:

Change to the State of Florida Notification Form by the State of Florida.

The title of the form has changed from "State of Florida Notification Message Form for Nuclear Power Plants" to "Florida Nuclear Plant Emergency Notification Form."

The form now contains a Supplemental Data Sheet that is required to be completed after the TSC is declared Operational or for an Alert or higher. The Supplemental Data Sheet contains radiological dose assessment data and a new information section requiring plant conditions information.

A Signature Approval section for the EC or RM has been added to both pages of the new notification form.

0-EPIP-20126, Offsite Dose Calculations

Pg 13, Step 5.4.1.6

Step was revised to correct references to guidance and method.

Page 17, table of Process Radiation Monitoring System parameters : Change "Background" to "Routine Reading," to clarify the meaning of the value in this column.

Page 18, "For Steam Generator tube Rupture," values were corrected to reflect current SGTR analysis.

Page 20, Instruction group "A" Insert a new step 7, to describe computer login at the EOF

Pages 54, 55,5 6, and 57:

Incorporate Operations' definition of a 'dry S/G' for the purposes of determining if the tube leak is above or below the water line.

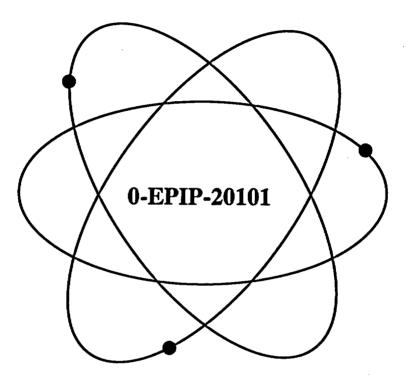
Page 58 :

Insert a 'new' page to incorporate an additional method to estimate a SGTR release rate.

Several editorial changes were made to conform to guidance on procedure format.

Florida Power & Light Company

Turkey Point Nuclear Plant



Title:

Duties of Emergency Coordinator

Safety Related Procedure					
Responsible Department: Emergency Preparedness					
Revision Approval Date:	5/31/00				
Periodic Review Due:	9/11/01				

RTSs 96-0928P, 97-1403P, 98-0483, 98-0699, 00-0248P PC/M 92-004

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Procedure No.:

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Procedure Title:

0-EPIP-20101

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0-EPIP-20101

1.0 PURPOSE

- 1.1 This procedure provides the guidelines to be followed by the Emergency Coordinator when an emergency occurs that requires initiation of the Turkey Point Radiological Emergency Plan.
- 1.2 This procedure provides guidance for actions that the Emergency Coordinator will take in a plant emergency.
- 1.3 For planned evolutions, such as safeguards, this procedure does not apply. However, if a deviation from the planned evolution (i.e., any unplanned evolution) occurs, this procedure should be consulted.

2.0 <u>REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS</u>

- 2.1 <u>References</u>
 - 2.1.1 Plant Procedures
 - 1. 0-ADM-028, On the Job Injuries
 - 2. 0-ADM-034, Oil and Hazardous Material Emergency Response Plan and Spill Prevention, Control and Countermeasure (SPCC) Plan
 - 3. 0-ADM-115, Notification of Plant Events
 - 4. 0-EPIP-20104, Emergency Response Organization Notifications/ Staff Augmentation
 - 5. 0-EPIP-20106, Natural Emergencies
 - 6. 0-EPIP-20110, Criteria for and Conduct of Owner Controlled Area Evacuation
 - 7. 0-EPIP-20111, Re-entry
 - 8. 0-EPIP-20126, Off-site Dose Calculations
 - 9. 0-ONOP-016.10, Pre-Fire Plan Guidelines and Safety Shutdown Manual Actions
 - 10. 3/4-ONOP-094, Alternate Methods for Containment Post Accident Monitoring

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	2.1.2	Regulatory Guidelines	
		1. 10 CFR 50.47, Emergency Plans	
			· _
		 10 CFR 50, Appendix E, Emergency Planning and Production and Utilization Facilities 	1 Preparedness for
		 NUREG-0654, FEMA-REP-1, Criteria for Preparation Radiological Emergency Response Plans and Prepared Nuclear Power Plants 	and Evaluation of ness in Support of
		4. NUREG/BR-0150, Volume 1, Rev 4, Response Technical	Manual, RTM-96
2	2.1.3	Miscellaneous Documents (i.e., PC/M, Correspondence)	
		I. Turkey Point Plant Radiological Emergency Plan	1
		2. Turkey Point Plant Emergency Response Directory (ERD)	
	-	8. PC/M 92-004, Upgrading Plant Page Audibility	
	4	 Condition Report 96-880, Radiological Releases, Emerg Table, Item 7 	ency Classification
	4	6. Condition Report 96-881, Definition of Power Block	
	e	Description: PTN-ENG-SENS-97-088, Pre-Planned Alternative M Containment High Range Radiation Monitors	onitoring for the
	7	Security Force Instruction 6307, Emergency Evacuation ar	nd Accountability
2.2 <u>R</u>	ecords R	equired	
2.	r	Completed originals of the below listed item(s) constitute ecords and shall be transmitted to QA Records for retention Quality Assurance Records Program requirements:	Quality Assurance in accordance with
	1	. Subsections of this procedure required to be comp performance of this procedure:	pleted during the
		a. Forms similar to Attachment 1	
		b. Forms similar to Attachment 2	
		c. Forms similar to Attachment 3, Page 1	
		d. The Emergency Log Book	
2.5	P.	opies of the records of Steps 2.2.1 shall be transmitted treparedness Coordinator. Originals shall be submitted as (stained in accordance with Quality Assurance Program require	OA Records to be

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3.0 **RESPONSIBILITIES**

- 3.1 <u>Emergency Coordinator</u>
 - 3.1.1 The Nuclear Plant Supervisor (NPS) assumes the responsibilities of the Emergency Coordinator in the initial phases of a plant emergency. If the Nuclear Plant Supervisor (NPS) is incapacitated, the Emergency Coordinator shall be (in order of succession in the Control Room staff).
 - 1. Assistant Nuclear Plant Supervisor
 - 2. Nuclear Watch Engineer
 - 3. Any other member of the plant staff with an active Senior Reactor Operator License
 - 3.1.2 A member of the Plant Management Staff may later assume Emergency Coordinator (EC) duties when he or she reaches the Control Room or TSC and becomes familiar with the emergency. The NPS will, at that time, return to the normal responsibility of control of the units. Turnover between ECs should be performed in the Control Room, if possible, with the new EC taking the Emergency Log Book to continue records of the event.
 - 3.1.3 The Emergency Coordinator shall only grant permission for watch relief, including his own, when a proper turnover has been given and in his judgment, it is safe to do so.
 - 3.1.4 The Emergency Coordinator shall authorize any radiation exposures in excess of regulatory limits. This authorization should be in accordance with 0-EPIP-20111, Re-entry. Authorization should be given only after consultation with the TSC Health Physics Supervisor and the Recovery Manager, if time permits. For those remote circumstances involving an event in progress, and obtaining EC approval will result in leaving the scene or decrease the victims chance of survival, life saving actions may be performed without obtaining EC approval. The EC shall be notified immediately following the rescue operation.
 - 3.1.5 The Emergency Coordinator shall authorize personnel exposures in excess of regulatory limits only for volunteers who are familiar with the risks involved and the tasks to be performed. Declared pregnant adults should not be used as on-site emergency workers.
 - 3.1.6 The Emergency Coordinator is responsible for implementing SAMGs, as necessary.

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4.0 **DEFINITIONS**

0-EPIP-20101

- 4.1 <u>Emergency</u> any off-normal event or condition which is classified into one of the four event categories in Enclosure 1 of this procedure.
- 4.2 <u>Emergency Notification System (ENS)</u> the circuit tying the NRC and Turkey point.

Duties of Emergency Coordinator

- 4.3 <u>Emergency Response Directory (ERD)</u> the directory containing names and phone numbers of Emergency Response Organization personnel.
- 4.4 <u>ESATCOM</u> Satellite based backup communications system for notifications to the State Warning Point.
- 4.5 <u>Florida Nuclear Plant Emergency Notification Form</u> the form used to initiate, update, and terminate emergency notifications to State and Local Counties.
- 4.6 <u>Hot Ring Down Telephone (HRD)</u> the dedicated link between State/Counties and Turkey Point.
- 4.7 <u>Local Government Radio (LGR)</u> the communications network used as a backup to the HRD.
- 4.8 <u>Off-site Power</u> power supplied from the grid through the Startup or Auxiliary Transformers (backfeed), or power supplied by the Auxiliary Transformer during normal operation.
- 4.9 <u>On site</u> within the Protected Area.
- 4.10 <u>On-site Power</u> power supplied by any of the four emergency diesel generators.
- 4.11 <u>Owner Controlled Area</u> that portion of the FPL property surrounding and including the Turkey Point Plant, which is subject to limited access and control as deemed appropriate by FPL.
- 4.12 <u>Power Block</u> structures comprising all permanent nuclear, power generation, and cooling structures, systems, and components within the Protected Area and permanent safety related or quality related utilities (e.g., air, water and electric) both inside and outside the Protected Area. The Power Block does not include the switchyard (Reference CR-96-881).
- 4.13 <u>Release</u> during any declared emergency, any effluent monitor increase of approximately ten times/one decade above pre-transient values, or Health Physics detected airborne radioactivity levels in excess of 25 percent DAC outside of plant buildings due to a failure of equipment directly associated with the declared plant emergency.

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- 4.14 Site Boundary land areas within a 1 mile radius of the affected unit.
- 4.15 <u>Unrestricted Area</u> as defined in the Technical Specifications.

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0-EPIP-	20101	Duties of Emergency Coordinator	Approval Date: 5/31/00
5.0 <u>PR</u>	OCEDUR	<u>LE</u>	
5.1	General		
	5.1.1	The Emergency Coordinator (EC) can delegate his resp subordinates with the exception of classification, the decision State and Local authorities and the issuing of Protective Action (PARs). The actual notification can be done by the EC's des of off-site agencies and PARs become the responsibility of the (RM) when the EOF is manned and operational. The EC doc to notify State and Local authorities and his concurrence with a form similar to Attachment 1.	n to notify Federal, n Recommendations signee. Notification e Recovery Manager suments his decision
	5.1.2	During exercises, drills or tests, ALL MESSAGES shall begin IS A DRILL.	and end with THIS
	5.1.3 In any case where a General Emergency has been declared, the minimum protective action recommendation shall be: Shelter all people within a 2 m radius from the plant and 5 miles in the down wind sectors.		
	5.1.4	Plant conditions, plume dose projection calculations, (fr Off-site Dose Calculations), and off-site monitoring results s when making Protective Action Recommendations. If signif exist between field monitoring results and plume dose project evaluation should be made, and the most conservative app determination of Protective Action Recommendations.	hould be evaluated ficant discrepancies ion calculations, an
	5.1.5	If a condition, which meets the Unusual Event or Alert criteri identified and subsequently rapidly resolved, the emergency cla declared and immediately terminated. All required noti completed. Activation of the On-site Emergency Response required.	assification shall be

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5.	.1.6	If a condition which meets the Site Area Emergency or General Emergency criteria of Enclosure 1 is identified and subsequently rapidly resolved, the emergency shall be declared and all notifications completed. De-escalation from the Site Area Emergency and General Emergency classifications may only be authorized by the Recovery Manager.
5.	1.7	Protective Action Recommendations based upon off-site dose calculations shall be determined by comparing projected off-site doses to the action levels in Attachment 3. If the period of exposure is expected to be less than 2 hours the doses should be projected for the expected duration of the exposure. For longer duration exposures, the off-site doses should be projected for 2 hours and PARs should be based upon the 2 hour projections.
5.1	1.8	The Emergency Coordinator responsibilities shall reside with the EC in the Control Room until they have been formally transferred to the EC in the TSC.
5.1	1.9	Emergency notification to State and Local Counties is required within 15 minutes of declaring an emergency.
5.1	1	Emergency notification to the NRC is required immediately following notification of State and Counties, but not later than 1 hour from the declaration of an emergency.
5.1	l.11	If, during the notification process, it becomes necessary to upgrade the emergency classification,
		1. Ensure that the State Warning Point has been notified of the Emergency Declaration within 15 minutes of making the initial classification,
	2	2. Stop the current notification process, and
		3. Proceed to the steps corresponding to the new emergency classification, including notification of the new classification to the State Warning Point.

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- 5.1.12 Plant Page Announcements
 - 1. PA Messages to site personnel do not have to be made verbatim; they are example messages only.
 - 2. Announcements may not be made or may be modified as directed by the Emergency Coordinator, or his designee, if it is determined that such announcements may cause intruders to panic or make them aware of plant/security personnel responses in regard to security related events.
 - 3. Important plant page announcements, such as changes in classification or plant status, should be made firmly, clearly, and distinctly so that the message can be heard throughout the plant.
 - 4. The Page Volume Boost feature should be used when making Emergency Announcements from the Control Room. By pressing and holding the pushbutton on the console in the ANPS Workstation, or on the RCO's desk, the Page System speakers will broadcast at maximum volume, and the blue, high intensity strobe lights will be activated. Release the pushbutton when the announcement is complete.
- 5.1.13 The Emergency Coordinator has the authority to waive individual's emergency response training requirements, as needed.
- 5.1.14 Procedural notification steps may be performed out of sequence in order to meet State of Florida and/or NRC notification time requirements.
- 5.1.15 Alternate commercial telephone numbers for State of Florida and NRC notification are listed in the Emergency Response Directory (ERD).
- 5.1.16 Collection of Release Rate Data shall not delay State of Florida and NRC notifications. If the data is not available, notification shall be made and followed up as soon as the information is available.

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5.1.17	Evacuation	ons and Emergency Response Facility (ERF) Activat	ion
	as the of the postp active	Emergency Coordinator shall consider plant and rac ey relate to the emergency prior to ordering an evac ne ERF. As conditions warrant, the Emergency Coo cone or make special requirements on the evac ation. Some examples of special circumstances and llows:	cuation or activation ordinator may delay, uation and/or ERF
	а.	Radiological conditions (puff releases) when la received consider:	rge doses may be
		(1) Duration of the release	
		(2) Plant conditions	
		(3) Meteorological conditions	
		(4) Evacuation route availability	
		(5) Sheltering	
		(6) Routes to emergency facilities	
		(7) Other information pertinent to the release	
	b.	Security events when unknown hazards or daintruders, bomb threats, etc.) are perceived, consider	ngers (i.e., armed
		(1) Location of intruders	
		(2) Bomb threat location	
		(3) Other information pertinent to the security three	at.
	1	Plant conditions where additional personnel are ne plant in a safer configuration (i.e., equipment ha system open for repair, etc.).	ccessary to put the tch open, primary
	d.	On-site hazards, such as toxic gas, fires, or exp movement of personnel would be placing them in ad	losions where the ditional risk.
	e.]	Risks to plant personnel due to the inability to use the construction, traffic accidents, etc.).	e evacuation route
	f. (Other similar events.	
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Duties of Emergency Coordinator During an Emergency of Alert or higher, the Emergency confer with the TSC Security Supervisor concerning the im on Plant Security. During a Site Area Emergency or higher degree of airborne release, the TSC Security Superviso complete or partial suspension of safeguards which may inc	npact of the emergency r, and dependent on the or may recommend a
confer with the TSC Security Supervisor concerning the im on Plant Security. During a Site Area Emergency or higher degree of airborne release, the TSC Security Superviso complete or partial suspension of safeguards which may inc	npact of the emergency r, and dependent on the or may recommend a
to, any of the following:	iude, but is not limited
<u>NOTE</u>	
oors unlocked by the computer will relock automatically after they	are closed.
1. Unlocking vital area doors through the security compute	er.
2. Suspension of designated security patrols or activities.	
3. Maintenance of Protected Area Access Control only (s patrols).	suspension of all field
4. A partial evacuation of on-duty Security personnel.	
5. Closing one or both Alarm/Communications Stations (C	CAS/SAS).
6. Complete suspension of Site Security Safeguards.	
Classifying Simultaneous Emergencies: Emergency classifying Simultaneously occurring events affecting each unit independent on Unit 3 and Tube Rupture on Unit 4) shall be made base event, and reported as the classification for the site. Noccurring, only one emergency classification shall be made.	endently (e.g., LOCA ed on the most severe With multiple events
	 Deprive the computer will relock automatically after they Unlocking vital area doors through the security compute Suspension of designated security patrols or activities. Maintenance of Protected Area Access Control only (a patrols). A partial evacuation of on-duty Security personnel. Closing one or both Alarm/Communications Stations (Complete suspension of Site Security Safeguards. Classifying Simultaneous Emergencies: Emergency classimultaneously occurring events affecting each unit indepon Unit 3 and Tube Rupture on Unit 4) shall be made base event, and reported as the classification for the site.

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- 5.1.20 One of the primary reasons for the declaration and notification process is to prompt Local, State, and Federal Government Agencies to initiate actions to assure the health and safety of the public. The Government Agency response is based on an event affecting either unit at a multiple unit site, such as PTN. Therefore, the Government Agency's actions will address the most severe classification issued by the site, and having multiple classifications would only confuse the response. Examples regarding this issue are provided below.
 - 1. If Unit 3 is in a classified event (an Alert, for example), and another event of the same of lesser classification (e.g., an Unusual Event or Alert) occurs on Unit 3 or Unit 4, then a new event classification should not be made, and the event notification should be issued as an update, at the earliest practical time.
 - 2. If Unit 3 is in a classified event (an Alert, for example), and another event of higher classification (Site Area or General Emergency) occurs on either Unit 3 or Unit 4, then the new classification should be promptly issued to the State and NRC within the regulatory time requirements.
 - 3. The Florida Nuclear Plant Emergency Notification Form (a form similar to Attachment 1) should indicate the unit for which the event is declared. If the event is common to both units, Unit 3 should be marked as the affected unit.
- 5.1.21 For Emergency Classification purposes, a representative containment radiation reading can be obtained from the pre-planned alternate method of containment radiation monitoring, if both CHRRMs are inoperable. Refer to 3/4-ONOP-094, Alternate Methods for Containment Post Accident Monitoring, for implementation and use of the pre-planned alternate method of containment radiation monitoring.

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0-EPIP-201	01	Duties of Emergency Coordinator	Approval Date: 5/31/00
5.2 0	lassifyin	g Events	
5	.2.1 F	ire/Explosion Emergency? Yes/No	
<u>Time</u>	1.	IF NO, THEN proceed to Step 5.2.2.	
	2.	Fire/Explosion reported.	
		Location	
		Class (if known) $A/B/C/D$ (see Note below)	
		Injured personnel should be handled in accordance with (Job Injuries.	D-ADM-028, On the
		Extent of damage to plant components	
	- combust - electrica		
		"Attention all personnel. There is a reported Class Fire/Explosion in Unit (3 or 4) (location). personnel in the Fire/Explosion location withdraw to a s Brigade members report to (location of fire/explosion)	(if known) All safe area. All Fire
	4.	Sound Fire Alarm.	
<u></u>	5.	Follow alarm with page announcement using the Page Vol	ume Boost:
		"Attention all personnel. There is a reported Class (if know Fire/Explosion in Unit (3 or 4) (location) personnel in the Fire/Explosion location withdraw to a s Brigade members report to (location of fire/explosion)	afe area. All Fire

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<u>Time</u>		<u>5.2.1 (Cont'd)</u>					
		CAUTIONS					
	 Alarming dosimetry is available for Fire Brigade members to monitor direct radiological exposure. The air sampler located in the Fire Locker in the Auxiliary Building hallway is also available to assess airborne activity. 						
	 It may b qualified support 	e necessary to relieve the Health Physics Fire Team members Fire Brigade members in order to ensure additional Healt	with other h Physics				
		6. Reference 0-ONOP-016.10, Pre-Fire Plans Guidelines Manual Actions, as time permits and as necessary to an area characteristics and aid Operations with safe shutdow	id Fire Brigade with				
		7. <u>IF applicable, THEN</u> verify accountability with Security	•				
		8. <u>IF</u> personnel are unaccounted for, <u>THEN</u> direct Fire search for missing personnel.	Brigade Leader to				
		CAUTION					
	Due to minin and weeken	nal Contract Medical Response Staff of one (1) Individual on b Is, manpower requirements should be monitored by the Contro	ack shifts Di Room.				
		9. Verify Contract Medical personnel dispatched to the scene.	vicinity of the fire				
		NOTE					
	Emerg	ency phone numbers are listed in the Emergency Response Directo	ory.				
	1	0. Contact additional fire support, if needed.					
	1	1. <u>IF</u> off-site assistance has been requested, <u>THEN</u> infor pending arrival.	m Security of their				
	1	 <u>IF</u> injuries occur or have occurred, <u>THEN</u> perform 0-ADM-028, On the Job Injuries, otherwise proceed to State 	Attachment 1 of ep 5.2.3.				

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0-EPIP-20101	Duties of Emergency Coordinator	Approval Date: 5/31/00	
5.2.2 Time	Have injuries occurred which require medical assistance? 1. <u>IF NO, THEN</u> proceed to Step 5.2.3.	Yes/No	
	2. <u>IF YES, THEN</u> refer to Attachment 1, Control Room I Requiring Medical Assistance, of 0-ADM-028, On the J	Response to an Injury ob Injuries.	
5.2.3	Mitigating Actions and Classification of Off-Normal Event		
	1. Direct initial investigative and mitigating actions to Event.	correct Off-Normal	
	a. <u>IF</u> the event involves a release of oil or hazar environment, <u>THEN</u> perform the following:	dous material to the	
	(1) Activate the Fire Brigade to perform initi determine if additional support is needed at t	al response <u>AND</u> to he scene.	
	(2) Notify the on-shift Chemistry Technician.		
<u></u>	(3) Notify Mechanical Maintenance to pr containment and cleanup.	rovide support for	
	(4) Notify the Environmental Compliance or Coordinator for response, and reportability to the ERD for names and phone numbers).	Hazardous Materials letermination. (Refer	
	(5) Refer to 0-ADM-034, Oil and Hazardous N Response Plan and Spill Prevention, Control (SPCC) Plan.	Materials Emergency and Countermeasure	
	2. <u>IF</u> a release (see Definitions) is in progress, <u>THEN</u> direct Chemistry personnel to implement 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS.		

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Time	<u>5.2.3 (Cont'd)</u>		
	NOTES		
with reg	ned evolutions, such as Safeguards Testing, this procedure does ard to the actuation of Safeguards equipment. However, if a deviation evolution occurs, this procedure should be consulted for event class	on from the	
If simult made ba	aneous emergencies occur at the site, the Emergency Classifications of the most severe condition at the site.	on shall be	
but hav activities Coordina escalate	ions meeting the Emergency Classification criteria are known to ha e been terminated, proceed with required classification and a. An Unusual Event or Alert may be terminated by the l ator. A Site Area Emergency or General Emergency may or d by the Recovery Manager. Activation of the On-site Emergency is not required for events that have been terminated by the respor el.	notification Emergency nly be de- Response	
• If the e 0-ADM-1	vent does not qualify as an Emergency, using Enclosure 1 p 15, NOTIFICATION OF PLANT EVENTS, for further classification of	proceed to of event.	
	 Classify Off-Normal Event using present available inform most conservative emergency class using Enclosure 1 Step Number and Page listed on the bottom of Enclosure 	. THEN proceed to	
Completed by:	Date:		

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5.3 <u>Unus</u>	sual Event	
<u>Time</u>		
· ·	<u>NOTE</u>	·
	d Emergency Announcements may be omitted or modified a cy Coordinator, or his designee, to prevent alarming intruders	
5.3.1	IF an Unusual Event has been declared, THEN compl	ete the following steps:
ŗ —	<u>NOTE</u>	· 1
	on Steps may be performed out of sequence in order to mee RC notification time requirements.	ext State of Florida
	1. Document the sequence of events using the Emerg	zency Log Book.
	 Inform or have Control Room personnel informergency via the Plant Page System, <u>AND</u> mannouncements <u>twice</u> using the Page Volume Boo 	orm site personnel of the nake one of the following
	a. <u>IF</u> entering into an Unusual Event, <u>TI</u> announcement:	<u>IEN</u> make the following
	"Attention all personnel, attention all person been declared on Unit # due to (pre- initiating event). All Emergency Respon remain on standby. All other personnel co unless further instruction is given."	ovide a brief description of ose Organization members
	b. <u>IF</u> downgrading to an Unusual Event, <u>T</u> announcement:	HEN make the following
	"Attention all personnel, attention all pers been downgraded to an Unusual Event."	onnel: the Emergency has

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	3. <u>IF</u> there is a localized emergency (fire, high radiperform the following:	iation, toxic gas), <u>THEN</u>
	a. Determine assembly area for personnel eva area.	cuated from the affected
	b. Announce type and location, instruct perso report to the assembly area.	nnel to stand clear, and
	c. Sound applicable alarm, if not previously done	e.
	d. Announce type and location, instruct personne to the assembly area.	el to stand clear and report
	e. Initiate Search and Rescue as required.	
[4. Direct the Shift Technical Advisor (STA) to in Emergency Response Organization Notifications/Sta a. IF significant public interest is expected or sig is required, THEN perform the following: (1) Identify those positions requiring active reporting location. (2) Direct the STA to initiate a partial active Response Organization, using the identify 	nplement 0-EPIP-20104, off Augmentation. nificant technical support ivation and the desired

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	· .	1 rooteluie		22
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			CAUTIONS	
	 Notifica Emerge. 	tion to ncy Clas	the State Warning Point is required within 15 mi sification.	inutes of
	Notification Notification	tion to tion and	the NRCOC is required to immediately follow t no later than one hour.	he State
	Collection Notification	on of R tion.	elease Rate Data shall not delay State of Florida	or NRC
	• If a tran procedu	nsitory e re.	event has occurred, notifications are still required u	sing this
			<u>NOTE</u>	
	If during the classification:	e notifica	tion process, it becomes necessary to upgrade the e	mergency I
	ensu Decla	re that a aration wi	the State Warning Point has been notified of the Ei thin 15 minutes of making the initial classification,	mergency
	stop	the curre	nt notification process, and	l .
	proce notifie	ed to the cation of (e steps corresponding to the new emergency classification, the new classification to the State Warning Point.	including
-				1
		5. <u>IF</u> Emo	Off-site (State and County) notification responsibi ergency Coordinator on site, <u>THEN</u> complete the follo	lities are with the wing steps:
		а.	Complete a form similar to Attachment 1.	
		b.	Obtain the Emergency Coordinator's initials on th prior to transmitting the information.	e notification form

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ſ 	-	<u>NOTE</u>	1
State Warr black bell p	ning Point n hone (ring	nay request verification call back. If requested, they will can master) or cellular phone in the Control Room.	all in on the
	c.	Notify the State Warning Point in Tallahassee <u>AN</u> from a form similar to Attachment 1 within 15 m the Unusual event via one of the following:	<u>ND</u> relay information ninutes of classifyin
		(1) Hot Ring Down Telephone	
		(2) Commercial Telephone (refer to ERD)	
		(3) Cellular Phone (refer to ERD)	
		(4) ESATCOM	
		(5) Local Government Radio	
	d.	Complete a form similar to Attachment 2.	
	с.	Contact the NRCOC and relay the information from Attachment 2 immediately after the notification of to State and Counties via one of the following:	om a form similar to f the Unusual Even
		(1) ENS	
		(2) Commercial Telephone (refer to ERD)	
		(3) Cellular Telephone (refer to ERD)	
	arre	continued direction of the Emergency Response to the control Room Activities, <u>THEN</u> consider turnov gnated member of the Plant Management Staff.	Activities adversely er of EC duties to a
	Man Auti	EC duties have been assumed by a designated m agement Staff in the TSC, <u>THEN</u> contact affected N porities to establish communication links and determ irements.	RC. State and Local

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	<u>5.3.1 (</u>		
		assess plant conditions using Enclosure 1 periodical	ly.
	9. <u>IF</u> thi	upgrading Emergency Class, <u>THEN</u> proceed to the sprocedure, using Enclosure 1.	e applicable section of
	TH	notification responsibilities are with the Emergenc IEN provide notifications to the State and Counties quent updates are agreed to, upon termination, or as	every hour, unless less
	а.	Complete a form similar to Attachment 1.	
	b.	Obtain the Emergency Coordinator's initials on prior to transmitting the information.	the notification form
	c.	Notify the following of the new information:	
		(1) State Warning Point	
		(2) Duty Call Supervisor	
	d.	Complete a form similar to Attachment 2.	
	e.	Notify the NRCOC of the new information via or	ne of the following:
		(1) ENS	
		(2) Commercial telephone (refer to ERD)	
	11. Det Def	ermine if the emergency can be terminated Escalation Guidelines.	using Enclosure 3,
	12. <u>IF</u> t	erminating the event, THEN perform the following	:
	a.	Notify the Units 1 and 2 Watch Engineer that terminated.	t the event has been
	b.	Have the Control Room make the following a plant page system, using page boost, to notify plant	nnouncement via the nt personnel:
		"Attention all personnel, attention all personn situation has been terminated."	el. The emergency
Completed by:		Date:	
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0-EPI	P-20101	I	Duties of Emergency Coordinator	Approval Date: 5/31/00
5	.4 Alert			····
<u>.</u> <u>Fime</u>	<u></u>			
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ļ			NOTE	. 1
	Emergency C warrant.	mergency Ann Coordinator, or	ouncements may be omitted or modified, as dir his designee, to prevent alarming intruders if Se	rected by the I curity Events
-	5.4.1	IF an Alert ha	as been declared, <u>THEN</u> perform the followin	g steps:
]			NOTE	1
1 	Notification st and/or NRC N	teps may be p lotification time	erformed out of sequence in order to meet Sta requirements.	te of Florida
•		1. Documen	t the sequence of events using the Emergency	Log Book.
-				
			CAUTION	
	from the site Such condit	and clearing t tions as sec	<u>CAUTION</u> or shall use good judgment prior to releasing those owner controlled areas outside the Prot urity events, release status, release dura ogical conditions should be evaluated prior	ected Area. tion. plant
	from the site Such condit conditions, a personnel.	and clearing to tions as sec and meteorolo 2. Determine	or shall use good judgment prior to releasing those owner controlled areas outside the Prot urity events, release status, release dura	ected Area. ation, plant to moving
	from the site Such condit conditions, a personnel.	and clearing to tions as sectand meteorolo 2. Determine <u>AND</u> clea 3. <u>IF</u> a prec	or shall use good judgment prior to releasing those owner controlled areas outside the Prot urity events, release status, release dura ogical conditions should be evaluated prior e the need to dismiss non-essential contract p	ected Area. ation, plant to moving ersonnel from the si
	from the site Such condit conditions, a personnel.	and clearing to tions as sectand meteorolo 2. Determine <u>AND</u> clea 3. <u>IF</u> a prec required, <u>7</u> a. Info	or shall use good judgment prior to releasing those owner controlled areas outside the Prot urity events, release status, release dura ogical conditions should be evaluated prior the the need to dismiss non-essential contract p or those areas outside the Protected Area.	fected Area. ation, plant to moving personnel from the si the Protected Area following areas at
	from the site Such condit conditions, a personnel.	and clearing to tions as sectand meteorolo 2. Determine <u>AND</u> clea 3. <u>IF</u> a prec required, <u>7</u> a. Info	or shall use good judgment prior to releasing those owner controlled areas outside the Prot urity events, release status, release dura ogical conditions should be evaluated prior the the need to dismiss non-essential contract p or those areas outside the Protected Area. cautionary clearing of personnel outside of the <u>THEN</u> perform the following:	fected Area. ation, plant to moving personnel from the si the Protected Area following areas at
	from the site Such condit conditions, a personnel.	and clearing to tions as sectand meteorolo 2. Determine <u>AND</u> clea 3. <u>IF</u> a prec required, <u>2</u> a. Info impl	or shall use good judgment prior to releasing those owner controlled areas outside the Prot urity events, release status, release dura ogical conditions should be evaluated prior those areas outside the Protected Area. eautionary clearing of personnel outside of the <u>THEN</u> perform the following: orm Security to clear personnel from the lement applicable sections of Security Force I	fected Area. ation, plant to moving personnel from the si the Protected Area following areas at
	from the site Such condit conditions, a personnel.	and clearing to tions as sectand meteorolo 2. Determine <u>AND</u> clea 3. <u>IF</u> a prec required, <u>7</u> a. Info impli (1)	or shall use good judgment prior to releasing those owner controlled areas outside the Prot urity events, release status, release durat ogical conditions should be evaluated prior the the need to dismiss non-essential contract p or those areas outside the Protected Area. eautionary clearing of personnel outside of the <u>THEN</u> perform the following: orm Security to clear personnel from the lement applicable sections of Security Force In Girl Scout Camp	fected Area. ation, plant to moving personnel from the si the Protected Area following areas at
	from the site Such condit conditions, a personnel.	and clearing to tions as sectors and meteorolo 2. Determined <u>AND</u> clea 3. <u>IF</u> a prece required, <u>7</u> a. Info imple (1) (2)	or shall use good judgment prior to releasing those owner controlled areas outside the Prot urity events, release status, release durat ogical conditions should be evaluated prior the the need to dismiss non-essential contract p or those areas outside the Protected Area. cautionary clearing of personnel outside of the <u>THEN</u> perform the following: orm Security to clear personnel from the lement applicable sections of Security Force I Girl Scout Camp Red Barn Area	fected Area. ation, plant to moving personnel from the si the Protected Area following areas at
	from the site Such condit conditions, a personnel.	and clearing to tions as sector and meteorolo 2. Determine <u>AND</u> clea 3. <u>IF</u> a prece required, <u>7</u> a. Info (1) (2) (3)	or shall use good judgment prior to releasing those owner controlled areas outside the Protection of the events, release status, release durated prior of the evaluated prior of the ev	fected Area. Intion, plant to moving personnel from the si the Protected Area following areas ar
	from the site Such condit conditions, a personnel.	and clearing to tions as sector and meteorolo 2. Determine <u>AND</u> clea 3. <u>IF</u> a prece required, <u>7</u> a. Info (1) (2) (3)	or shall use good judgment prior to releasing those owner controlled areas outside the Protection of the events, release status, release durated prior of the evaluated prior of the ev	fected Area. Intion, plant to moving personnel from the si the Protected Area following areas ar
	from the site Such condit conditions, a personnel.	and clearing to tions as sector and meteorolo 2. Determine <u>AND</u> clea 3. <u>IF</u> a prece required, <u>7</u> a. Info (1) (2) (3)	or shall use good judgment prior to releasing those owner controlled areas outside the Protection of the events, release status, release durated prior of the evaluated prior of the ev	fected Area. ation, plant to moving personnel from the si the Protected Area following areas at

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Time			5.4.	1.3.a (Cont'd)	
			(5)	Switchyard	
			(6)	Barge Canal	
			(7)	US Naval Special Warfare Group Training Sc	chool
			(8)	Trailer Areas and other work areas	
			(9)	Land Utilization	
		b.	Con prec	tact the Watch Engineer of Units 1 and 2 <u>AND</u> autionary clearing of personnel.	inform them of the
	4.	eme	orm or orgency or (b)]	have Control Room personnel inform site via the Plant Page System using the Page Vol	e personnel of the ume Boost. [Either
		a.	<u>IF</u> e	ntering into an Alert, THEN perform the follow	ving:
			(1)	Make the following announcement:	
				"Attention all personnel, attention all person been declared on Unit # due to <u>description of initiating event</u>). All En Organization members report to your dest response Facility. All other personnel rep work location."	(provide a brief nergency Response ignated Emergency
				[The following announcement is Optional, per	r Substep 5.4.1.2]
				"All non-essential contract personnel are dism	issed for the day.
			(2)	Sound the Emergency Plan Activation Alarm.	
			(3)	Repeat the announcement.	
				CAUTION	
RM approva General Em	al is erge	requ ncy.	ired p	rior to downgrading from a Site Area Emerg	iency or
		b.	<u>IF</u> D twice	owngrading to an Alert, <u>THEN</u> make the follow:	wing announcement

"Attention all personnel, attention all personnel. The Emergency has been downgraded to an Alert."

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0-E	CPIP-20101		Duties of Emergency Coordinator	Approval Date: 5/31/00
<u>Time</u>		<u>5.4.1 (Co</u>	ont'd)	
		5. <u>IF</u> th perfo	here is a localized emergency (fire, high radiation, orm the following:	toxic gas), <u>THEN</u>
		a.	Determine an assembly area for personnel evacuat area.	e from the affected
		b .	Announce type and location, instruct personnel to report to the assembly area.	stand clear, and to
<u></u>		с.	Sound applicable alarm, if not previously done.	
		d.	Announce type and location, instruct personnel to report to the assembly area.	stand clear, and to
		e.	Initiate Search and Rescue, as required.	
			CAUTION	
	security relations of the security relation of	ated even responders to minim mergency R	e (process monitors off scale, or other Indications ts are in progress (intruders, bomb threat, etc.) s and site evacuees of the best access and egress r lize hazards. During off hours, dispatch Security desponders away from the hazardous routes. <u>NOTE</u> nical or security threat considerations) warrant, alternate cilities may be necessary. Refer to Subsection 5.1, Gener	inform outes to to route facilities
		Facilit	the STA to initiate Activation of On-site Em ties (ERFs) per 0-EPIP-20104, Emergency Resp cations/Staff Augmentation.	ergency Response onse Organization
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0- E			Duties of Emergency Coordinator	Approval Date: 5/31/00					
<u>Time</u>		5.4.1	(Cont'd)						
			CAUTIONS						
	 Notifica emergei 	tion to ncy clas	the State Warning Point is required within 15 m sification.	inutes of					
	 Notification Notification 	tion to tion and	the NRCOC is required to immediately follow to no later than one hour.	the State					
	 Collection notificat 	on of F lion.	of Release Rate Data shali not delay State of Florida or NRC						
	 If a transprocedu 	rsitory (re.	event has occurred, notifications are still required u	sing this					
	** ***** ** **** **		<u>NOTE</u>						
	If during the classification:	notifica	ation process, it becomes necessary to upgrade the e	mergency					
	ensure the within 15	nat the S minutes	tate Warning Point has been notified of the Emergency D of making the initial classification,	eclaration					
	stop the c	current n	otification process, and	1					
	proceed notificatio	to the si in of the l	teps corresponding to the new emergency classification, new classification to the State Warning Point.	including					
		7. <u>IF</u> Em	off-site (State and County) notification responsibi ergency Coordinator on site, <u>THEN</u> complete the follo	lities are with the owing steps:					
		a.	Complete a form similar to Attachment 1.						
<u> </u>		b.	Obtain the Emergency Coordinator's initials on th prior to transmitting the information.	e notification form					

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<u>Time</u>	<u>5.4</u>	1.7 (Cont'd)	
State Warn black bell p	ing Point n hone (ringr	NOTE ay request verification call back. If requested, they will c master) or cellular phone in the Control Room.	call in on the
	C.	Notify the State Warning Point in Tallahassee <u>A</u> from a form similar to Attachment 1 within 15 r the Alert via one of the following:	<u>ND</u> relay information ninutes of classifying
		(1) Hot Ring Down Telephone	
		(2) Commercial Telephone (refer to ERD)	
		(3) Cellular Telephone (refer to ERD)	
		(4) ESATCOM	I
		(5) Local Government Radio	
	d.	Complete a form similar to Attachment 2.	
	е.	Contact the NRCOC and relay the information fr Attachment 2 immediately after the notification and Counties via one of the following:	om a form similar to of the Alert to State
		(1) ENS	
		(2) Commercial Telephone (refer to ERD)	
		(3) Cellular Telephone (refer to ERD)	
г — – — -		<u>NOTE</u>	1
Gu	idance for i	ransferring of responsibilities can be found in Enclosure :	2.
	8. <u>IF</u> E Eme	mergency Response Facilities (TSC/OSC) are activation reactive rea	ated, <u>THEN</u> consider
	off-s	e EOF is operational, then relinquish communication ite agencies to Recovery Manager at EOE over/briefing.	on responsibilities of F after a proper

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Time

5.4.1 (Cont'd)

10. Reassess plant conditions using Enclosure 1 periodically.

CAUTION

If the EOF is operational and the emergency has been upgraded, it is imperative that the Recovery Manager be notified concurrently with the declaration. This will ensure that the fifteen minute notification time limit is met.

- 11. <u>IF</u> upgrading emergency classification level, <u>THEN</u> proceed to applicable section of this procedure using Enclosure 1 <u>AND IF</u> the EOF is operational, <u>THEN</u> promptly notify the Recovery Manager.
- 12. <u>IF</u> notification responsibilities are with the Emergency Coordinator On site, <u>THEN</u> provide notification to the State and Counties every hour, unless less frequent updates have been agreed to, upon termination, or as conditions change.
 - a. Complete a form similar to Attachment 1.
 - b. Obtain the Emergency Coordinator's initials on the form prior to transmitting the information.
 - c. Notify the following of the updated information:
 - (1) State Warning Point
 - (2) Duty Call Supervisor
 - d. Complete a form similar to Attachment 2.
 - e. Notify the NRCOC with the updated information.
 - (1) ENS
 - (2) Commercial Telephone (refer to ERD)
- 13. Determine if the emergency can be de-escalated or terminated, using Enclosure 3.

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	Time	<u>5.4.1 (C</u>	ont'd)						
	—	14. <u>IF</u> follo	de-esc wing:	alating or terminating the event, <u>THEN</u> p	erform one of the				
		a.	IF proc	de-escalating, <u>THEN</u> return to the applical edure using Enclosure 1.	ble section of this				
		b.	<u>IF</u> te	erminating the event, THEN perform one of the	following:				
			(1)	Notify the Units 1 and 2 Watch Engineer tha terminated.	t the event has been				
			(2)	Have the Control Room make the following the plant page system, using page boos personnel:	g announcement via st, to notify plant				
				"Attention all personnel, attention all personn situation has been terminated".	el. The emergency				
	Completed by:	··· .		Date:					
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5.5 <u>Site Ar</u>	ea Emergency	
<u> Fime</u>		
•	<u>NOTE</u>	
Prescribed Emergency warrant.	Emergency Announcements may be omitted or modified as dir Coordinator or his designee to prevent alarming intruders if se	rected by the ecurity events
5.5.1	IF a Site Area Emergency has been declared, THEN performed	rm the following steps
	CAUTION	
De-escalati	on from Site Area Emergency must be done in concurrence w	vith the RM.
ſ ·	<u>NOTE</u>	<u> </u>
Notification	steps may be performed out of sequence in order to meet Sta	te of Florida
	notification time requirements.	
	1. Document sequence of events using the Emergency Lo	g Book.
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Procedure I	Not				1 p
i ioccuare i		Procedure 7	Title:		Page: 33
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<u> Fime</u>		<u>5.5.1 (</u>	Cont'd)	
		2. Info Pla	orm, o int Pag	r have the Control Room inform site personnel e System using the Page Volume Boost [Either	of the emergency vi (a) or (b)]:
ſ				CAUTION	
	Emergency	Respon	se Fa	ss, inform emergency responders of access cliities. During off hours, dispatch security onders away from hazardous routes.	routes to to route
		a.	<u>IF</u> foll	ENTERING into a Site Area Emergency, owing:	THEN perform th
			(1)	Make the following announcement:	
				"Attention all personnel; attention all person Emergency has been declared on Unit #	<u>due</u> to (<u>provid</u> mergency Respons
			(2)	IF not previously performed, <u>THEN</u> sound Activation Alarm.	the Emergency Pla
			(3)	Repeat the announcement.	
Г				CAUTION	<u> </u>
	RM app	proval is r	equire	d prior to downgrading from a Site Area Emerge	ncy.
		b.	<u>IF</u> d annc	owngrading to a Site Area Emergency, <u>THEN</u> buncement twice:	make the following
			"Atte been	ention all personnel, Attention all personnel. downgraded to Site Area Emergency."	The emergency has
	·				

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<u>Time</u>		5 <u>.5.1</u> (<u>'Cont'd)</u>		
	[<u>NOTE</u>	1	
	If wind	s are from	n 90° to 146°, consider the use of the alternate evacuation n	oute.	
		3. Co reg	nsider plant and radiological conditions as they related are structured as the structure of	te to the emergency	
		a.	Potential for release		
		b.	Duration of release		
		с.	Direction of release		
		d.	Meteorological conditions		
		e.	Plant conditions (need for supplemental en personnel).	nergency response	
		f.	Security threats to evacuees.		
	special requ	during a	<u>CAUTION</u> nt, the Emergency Coordinator may delay, postpone, s on the evacuation (Reference Step 5.1.17). If large da n evacuation, it may be more effective to shelter non-e	osas will	
		4. Imp exis	plement an Owner Controlled Area Evacuation if no st which may threaten evacuees.	significant hazards	
		а.	IF the TSC Health Physics Supervisor is availab release status, release duration, and wind direc applicable evacuation route and Off-site Assembly A	ction to determine	
		b.	Notify the Security Shift Supervisor for an evacual Controlled Area, including non-essential personnel Area, <u>AND</u> instruct them to implement 0-EPIP-2 FOR AND CONDUCT OF AN OWNER CON EVACUATION, and Security Force Instruct EMERGENCY EVACUATION AND ACCOUNTA	from the Protected 20110, CRITERIA TROLLED AREA ion (SFI) 6307	

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lime	<u>5.5.1.4 (C</u>	Cont'd)	
	<u>AN</u>	ify the Watch Engineer of Units 1 and 2 of \underline{D} instruct them to initiate a roster of person s for shutdown of the fossil units.	the Site Evacuation nel left in the foss
	d. Info Syst	orm, or have the Control Room inform, site pers tem <u>AND</u> complete the following steps:	sonnel via Plant Pag
		CAUTION	<u> </u>
security rel emergency take to/from	lated (intruders responders and site to minimiz	rocess monitors off scale or other indication b, bomb threat, etc.) events are in progres i site evacuees of the best access and egress te hazards. During off hours, dispatch Security nders away from hazardous routes.	s, inform routes to
	(1)	Make the following announcement using Pag	e Volume Boost:
		"Attention all personnel. Attention all per Controlled Area Evacuation has been i Emergency Response Organization memb designated Emergency Response Facility. evacuate to (designated off-site assembly off-site assembly area)."	implemented. A ers report to you All other personne
	(2)	Sound the Site Evacuation Alarm.	
	(3)	Make the following announcement using Page	e Volume Boost:
		"Attention all personnel. Attention all per Controlled Area Evacuation has been i Emergency Response Organization member designated Emergency Response Facility. evacuate to (designated off-site assembly off-site assembly area)."	mplemented. A ers report to you

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	Time	<u>5.5.1 (Cont'd)</u>	
		5. Notify the TSC Security Supervisor (Security Shift Super	rvisor) to:
		a. Discuss the potential for the suspension of all (Reference Step 5.1.18)	or some safeguards.
		b. Provide accountability information as needed Numbers).	(Names and Badge
н 		6. <u>IF</u> there is a localized emergency (fire, high radiation perform the following:	, toxic gas), <u>THEN</u>
		a. Determine an assembly area for personnel evacuat area.	ed from the affected
		b. Announce type and location, instruct personnel to s to the designated assembly area.	tand clear and report
	·	c. <u>IF</u> not previously performed, <u>THEN</u> sound applica	ble alarm.
		d. Announce type and location, instruct personnel to s to the designated assembly area.	tand clear and report
		e. Initiate Search and Rescue as required.	
		7. <u>IF</u> the On-site Emergency Response Facilities (ERFs) an Emergency Coordinator responsibilities have not transfer Emergency Coordinator transfer to TSC.	re operational, <u>AND</u> red, <u>THEN</u> consider
	,	<u>NOTE</u>	1
	If plant ever and/or route	ts (radiological or security threat considerations), warrant, alternations to these facilities may be necessary. Refer to Subsection 5.1, Generations and the security of the security threat considerations and the security threat consideration and the security threat consideration and the security threat considerations and the security threat consideration at the security the security threat consideration at the security th	e facilities eral.
		8. <u>IF</u> not previously performed, <u>THEN</u> instruct the STA to on-site Emergency Response Facilities (ERF) usi EMERGENCY RESPONSE ORGANIZATION NOTIFI AUGMENTATION.	initiate activation of ing 0-EPIP-20104, CATIONS/ STAFF
		9. Update on-site emergency responders of the emergency co	onditions.

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<u>Time</u>		<u>5.5.1 ((</u>	Cont'd)	,
		10. <u>IF</u> to c	the EOF is operational, <u>THEN</u> relinquish communication of the second state of the sec	ation responsibilities
			CAUTIONS	
	 Notificati emergen 		e State Warning Point is required within 15 minute fication.	es of the
			NRCOC is required to immediately follow the State No one hour.	otification
	 Collection Notification 	n of Rel ons.	ease Rate Data shall not delay the State of Florida	or NRC
	• If a trans procedur	sitory ev æ.	rent has occurred, notifications are still required, u	sing this
		• • • • • • • • • • •	<u>NOTE</u>	
	If during the classification,	e notificat	ion process, it becomes necessary to upgrade the e	mergency I
	ensu decla	re that t tration with	he State Warning Point has been notified of the el hin 15 minutes of making the initial classification,	mergency I
	stop	the currer	nt notification process, and	I
	proce notific	eed to the cation of t	steps corresponding to the new emergency classification, he new classification to the State Warning Point.	including
				i
		11. <u>IF</u> Eme	off-site (State and County) notification responsibi rgency Coordinator on site, <u>THEN</u> complete the follo	lities are with the wing steps:
		а.	Complete a form similar to Attachment 1.	
		Ъ.	Obtain the Emergency Coordinator initials on transmitting the information.	the form prior to

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0-EPIP-20101		D	outies of Emergency Coordinator	Approval Date: 5/31/00
<u>Time</u> [<u>5.5</u>	. <u>1.11</u>	(Cont'd) NOTE	
State Warn black bell p	ing Point n hone (ringi	nay req master)	uest verification call back. If requested, they will ca or cellular phone in the Control Room.	ll in on the
	с.	fror	ify the State Warning Point in Tallahassee ar n a form similar to Attachment 1 within 15 m Site Area Emergency via one of the following:	d relay informatio inutes of classifyin
		(1)	Hot Ring Down Telephone	
		(2)	Commercial Telephone (refer to ERD)	
		(3)	Cellular Phone (refer to ERD)	
		(4)	ESATCOM	
		(5)	Local Government Radio	
	d.	Con	nplete a form similar to Attachment 2.	
	e.	Atta	tact the NRCOC and relay the information fron the inchment 2 immediately after the notification tergency to the State and Counties via one of the	of the Site Are
		(1)	ENS	
		(2)	Commercial Telephone (refer to ERD)	
		(3)	Cellular Telephone (refer to ERD)	
	12. <u>IF</u> (<u>TH</u>	the Or <u>EN</u> co	n-site Emergency Response Facilities (TSC/OS nsider Emergency Coordinator transfer to the TS	SC) are operational SC.
	13. <u>IF</u> t with	he EO 1 off-si	F is operational, <u>THEN</u> relinquish communicate the agencies to the Recovery Manager at the EO	tion responsibilitie F.

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<u>Fime</u>	<u>5.5.1 (</u>	Cont'd)	
[<u>NOTE</u>	1
Security ha	is thirty mi Protected A	nutes to provide a list of names of personnel not yet ac Irea.	counted for
	14. De	termine the status of the owner Controlled Area Evac	uation.
	15. Re	assess plant conditions using Enclosure 1 AND Attack	hment 3 periodicall
the Recov	ery Mana	<u>CAUTION</u> onal and the emergency has been upgraded, it is impe- ger be notified concurrently with the declaration. inute notification time limit is not missed.	erative that This will
	of t	upgrading Emergency Classification, <u>THEN</u> proceed his procedure, using Enclosure 1 <u>AND IF</u> the EOF i ify the Recovery Manager promptly.	to applicable sections of the section of the sectio
	TH	notification responsibilities are with the Emergency \underline{EN} perform the following every hour, upon terminating:	Coordinator On-sit
	а.	Complete a form similar to Attachment 1.	
	b.	The Emergency Coordinator shall initial the form the information to verify Emergency Coordinator a	prior to transmittin pproval.
	c.	Notify the following of the new information:	
		(1) State Warning Point	
		(2) Duty Call Supervisor	
	d.	Complete a form similar to Attachment 2.	
	e.	Notify the NRCOC with the new information.	

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	18. Usin	g Enclosure 3 determine if the emergency car inated.	be de-escalated or
	Eme	onditions warrant, <u>THEN</u> recommend de-escalating recommend to RM. (Any de-escalation from Site Area mined by the RM.)	ion of the Site Area a Emergency shall be
——	20. <u>IF</u> d follo	le-escalating or terminating the event, <u>THEN</u> wing:	perform one of the
	а.	<u>IF</u> de-escalating, <u>THEN</u> return to the application procedure using Enclosure 1.	able section of this
	b.	IF terminating the event, THEN perform one of th	e following:
		(1) Notify the Units 1 and 2 Watch Engineer th terminated.	at the event has been
		(2) Have the Control Room make the followin the plant page system, using page boo personnel:	
		"Attention all personnel, attention all person situation has been terminated.	nnel. The emergency
Completed by:		Date:	
		·	

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	5.6 Genera	l Emergency							
	Time								
	Prescribed	emergency announcements may be omitted or modified as direct	ted by the						
	Emergency warrant.	Coordinator or his designee, to prevent alarming intruders if secu	inity events						
	5.6.1	IF a General Emergency has been declared, THEN complete	the following steps:						
		CAUTION							
	De-escalati	on from a General Emergency must be done in concurrence wit	h the RM.						
	ſ — - — ·	NOTE	·1						
: . *	Notification steps may be performed out of sequence in order to meet State of Florida and/or NRC notification time requirements.								
		1. Document sequence of events using the Emergency Log	•						
		CAUTION							
	access rou	or security events are in progress, inform emergency resp tes to Emergency Response Facilities. During off hours, route incoming emergency responders away from hazardous ro	dispatch						
		2. Inform, or have the Control Room inform, site personn via Plant Page System using Page Volume Boost.	el of the emergency						
		a. Make the following announcement:							
		"Attention all personnel. Attention all person Emergency has been declared on Unit #d description of initiating event). All Emergency Re members report to your designated Emergency Res	lue to (provide brief sponse Organization						

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	Therefore		Page: 42
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	b.	<u>IF</u> not previously performed, <u>THEN</u> sound the Activation Alarm.	ne Emergency Plan
	c.	Repeat the announcement.	
		CAUTIONS	
• RM ap	proval is re	equired prior to downgrading from a General Emergency	<i>y</i> .
prepai evacu effecti the d	ring to eva ation, or if ive to shelta	urity threats and plant conditions shall also be conside acuate personnel. If large doses will be received d security threats jeopardize evacuation routes, it may er non-essential personnel on site. Also, take into cons the release, plant conditions, potential for relea onditions.	luring an be more ideration
[— - —		<u>NOTE</u>	1
If wir	nds are from	90° to 146°, consider the use of the alternate evacuation ro	pute.
	3. Imp exis	blement an Owner Controlled Area Evacuation if no st which may threaten evacuees.	significant hazards
	а.	IF the TSC Health Physics Supervisor is available release status, release duration, and wind direct applicable evacuation route and off-site Assembly A	tion to determine
	b.	Notify the Security Shift Supervisor for an evacual Controlled Area, including non-essential personnel Area, and instruct them to implement 0-EPIP-20110 AND CONDUCT OF AN OWNER CONT EVACUATION, and Security Force Instruct EMERGENCY EVACUATION AND ACCOUNTA	from the Protected O, CRITERIA FOR ROLLED AREA
	c.	Notify the Watch Engineer of Units 1 and 2 of the <u>AND</u> instruct them to initiate a roster of personne units for shutdown of the fossil units.	he Site Evacuation I left in the fossil

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	security re	elated ev	<u>CAUTION</u> ase (Process Monitors are off scale or other indicate rents (intruders, bomb threat, etc.) are in progre	ss. inform		
	take from ti	he site to	ers and site evacuees of the best access and egress minimize hazards. During off hours, dispatch Secur responders away from hazardous routes.	s routes to ity to route		
		d.	Inform, or have Control Room personnel inform, Plant Page System and complete the following:	site personnel via t		
			(1) Make the following announcement using Pa	ge Volume Boost:		
			"Attention all personnel. Attention all per Controlled Area Evacuation has been Emergency Response Organization mem designated Emergency Response Facility. evacuate to (designated Off-site Assemble Off-site Assembly Area)".	implemented. A bers report to yo All other personn		
		4. Not	ify the TSC Security Supervisors (Security Shift Sup	ervisor) to:		
		a.	Discuss the potential for the suspension of all (Reference Step 5.1.18).	or some safeguar		
		b.	Provide accountability information as needed numbers).	(names and bad		
		5. <u>IF</u> perf	there is a localized emergency (fire, high radiation form the following:	n, toxic gas) <u>THE</u>		
		a .	Determine an assembly area for personnel evacua area.	ted from the affecte		
		b.	Announce its type and location, instruct personne report to the designated assembly area.	el to stand clear ar		
		с.	Sound applicable alarm, if not previously done.			
		d.	Announce its type and location, instruct personne report to the designated assembly area.	el to stand clear an		
		e.	Initiate Search and rescue as required.			
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	6. <u>I</u> c	<u>F</u> the On-site Emergency Response Facilition on sider Emergency Coordinator transfer to TSC	ies are operational, <u>THE</u> 2.
[، محمد ما متتب	NOTE	j
If plant and/or re	events (rad outes to the	iological or security threat considerations) warrant se facilities may be necessary. Refer to precautions	, alternate facilities 5.
-			
	O E	E not previously performed, <u>THEN</u> instruct ST m-site Emergency Response Facilities (E MERGENCY RESPONSE ORGANIZATION UGMENTATION.	A to initiate activation of t RF) using 0-EPIP-2010 NOTIFICATIONS/ STAI
	8. U	pdate on-site emergency responders of the eme	rgency conditions.
<u> </u>	9. <u>II</u> w	the EOF is operational, <u>THEN</u> relinquish con th off-site agencies to the Recovery Manager a	mmunication responsibiliti t the EOF.

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			CAUTIONS	
			the State Warning Point is required within 15 m sification.	ninutes of
	 Notifica Notifica 	tion to tion and	the NRCOC is required to immediately follow no later than one hour.	the State
	Collection Notification	on of R tions.	elease Rate Data shall not delay State of Florida	a or NRC
	• If a trai procedu	nsitory e nre.	event has occurred, notifications are still required u	using this
	• ! !	•	<u>NOTE</u>	
	If during the classification,) notifica	tion process, it becomes necessary to upgrade the ϵ	emergency t
			the State Warning Point has been notified of the E ithin fifteen minutes of making the initial classification,	Emergency
	stop	the curre	nt notification process, and	
	proce notifi	ed to the cation of a	e steps corresponding to the new Emergency Classification the new classification to the State Warning Point.	, including
	2 هندي چه هندي ه			-
		10. <u>IF</u> Em	off-site (State and County) notification responsib ergency Coordinator on site, <u>THEN</u> complete the follo	ilities are with the owing steps:
		a.	Complete a form similar to Attachment 1.	
		b.	Obtain the Emergency Coordinator's initials on the prior to transmitting the information.	he notification form

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<u>5.6.1.1</u>	0 (Cont'd)	
	<u>NOTE</u>	· 1
Point may bhone (Ringi	request verification call back. If requested, they will master) or cellular phone in the Control Room.	call in on
a	form similar to Attachment 1 within 15 minute	ay information from es of classifying the
(1	1) Hot Ring Down Telephone	
(2	2) Commercial Telephone (refer to ERD)	
(3	b) Cellular Phone (refer to ERD)	
(4) ESATCOM	1
(5) Local Government Radio	
d. Co	omplete a form similar to Attachment 2.	
A	ttachment 2 immediately after the notification	n of the General
(1)) ENS	
(2)) Commercial Telephone (refer to ERD)	
(3)) Cellular Telephone (refer to ERD)	
1. <u>IF</u> the C <u>THEN</u> c	On-site Emergency Response Facilities (TSC/OS consider Emergency Coordinator transfer to TSC.	C) are operational,
	5.6.1.10 Point may ohone (Ring) c. N a G (1 (2 (3) (4 (5) d. C 4 (5) d. C 4 (1) (2 (3) (1) (1) (2) (3) (1) (2) (3) (1) (2) (3) (1) (2) (3) (1) (2) (3) (1) (2) (3) (1) (2) (3) (1) (2) (3) (1) (2) (3) (1) (2) (3) (1) (2) (3) (1) (2) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Duties of Emergency Coordinator 5.6.1.10 (Cont'd) NOTE Point may request verification call back. If requested, they will obone (Ringmaster) or cellular phone in the Control Room. c. Notify State Warning Point in Tallahassee AND rel a form similar to Attachment 1 within 15 minute General Emergency via one of the following: (1) Hot Ring Down Telephone (2) Commercial Telephone (refer to ERD) (3) Cellular Phone (refer to ERD) (4) ESATCOM (5) Local Government Radio d. Complete a form similar to Attachment 2. e. Contact the NRCOC AND relay the information from Attachment 2 immediately after the notification Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one of the following Emergency to State and Counties via one

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l I • Securit	<u>NOTES</u> -escalation from General Emergency shall be determined by the RM. y has 30 minutes to provide a list of names of personnel not yet acc he Protected Area.	counted for
b ==== == ====	 <u>IF</u> not previously performed, <u>THEN</u> determine the s Controlled Area Evacuation. 	status of the Owner
	13. Reassess plant conditions against Enclosure 1 <u>A</u> periodically.	ND Attachment 3
	14. <u>IF</u> notification responsibilities are with the Emergency <u>THEN</u> provide notifications to the State and Countie termination, or as conditions change:	Coordinator on-site, es every hour, upon
	a. Complete a form similar to Attachment 1.	
	b. Obtain the Emergency Coordinator's initials on the prior to transmitting the information.	he notification form
	c. Notify the following of the new information.	
	(1) State Warning Point	
	(2) Duty Call Supervisor	
****	d. Complete a form similar to Attachment 2.	
	e. Notify the NRCOC with the new information.	
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	15. Using Enclosure 3 determine if the emergency can	be de-escalated or
,	terminated.	
	NOTE	1
	y de-escalation from General Emergency shall be determined by the R	^{M.} I
	16. <u>IF</u> conditions warrant, <u>THEN</u> recommend de-escala Emergency to the RM.	tion from General
—	17. <u>IF</u> de-escalating or terminating the event, <u>THEN</u> po following:	erform one of the
	a. <u>IF</u> de-escalating, <u>THEN</u> return to the applicat procedure using Enclosure 1.	ole section of this
	b. <u>IF</u> terminating the event, <u>THEN</u> perform one of the	following:
	(1) Notify the Units 1 and 2 Watch Engineer that terminated.	t the event has been
	(2) Have the Control Room make the following the plant page system, using page boos personnel:	announcement via t, to notify plant
	"Attention all personnel, attention all personn situation has been terminated.	el. The emergency
Completed by:	Date:	
	END OF TEXT	

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W97;JR/dt/ev/sw

Procedure No.: Procedure Title: Page: 49 **Approval Date** 0-EPIP-20101 **Duties of Emergency Coordinator** 5/31/00 **ENCLOSURE 1** (Page 1 of 17) **EMERGENCY CLASSIFICATION TABLE** Primary Leakage/LOCA **UNUSUAL EVENT** ALERT SITE AREA EMERGENCY **GENERAL EMERGENCY** Plant in Mode 1-2-3-4 Plant in Mode 1-2-3-4 Plant in Mode 1-2-3-4 Either A or B: AND AND AND Either A or B: RCS leakage greater than 50 gpm RCS leakage greater than 50 gpm A. RCS leakage greater than 50 gpm AND AND AND A. RCS Leakage GREATER THAN 10 GPM as RCS leakage within available charging RCS leakage greater than available RCS leakage greater than available charging indicated by: pump capacity charging pump capacity pump capacity AND 1) Control Room observation CAUTION: This section should not be CAUTION: This section should not be Containment pressure greater than 20 psig OR used for events involving used for events involving Inventory balance calculation 2) only a steam generator tube only a steam generator tube CAUTION: This section should not be used for OR leak/rupture, or only a leak/rupture, or only a events involving only a steam 3) Field observation faulted/ruptured steam faulted/ruptured steam generator tube leak/rupture, or only a ÔR generator. generator. faulted/ ruptured steam generator. Emergency Coordinator judgment 4) ******* B .Plant in Mode 1, 2, 3, 4, AND Β. Failure of any primary system safety or relief RCS leakage greater than 50 com valve to close resulting in an uncontrolled RCS AND depressurization. RCS leakage greater than available charging pump capacity AND Loss of containment integrity which provides a flowpath to the environment. CAUTION: This section should not be used for events involving only a steam generator tube leak/rupture, or only a faulted/ruptured steam generator CAUTION: Consult Attachment 3 for required Protective Action Recommendations, **Possible Control Room Indicators** TI-465, 467, 469 Charging/Letdown Flow Mismatch **RCS** pressure **RCS** pressure **TEC Flow Indicators Containment Pressure Containment Pressure** ARMS PRMS R-14 Charging/Letdown Flow Mismatch **Complete Actions listed in Subsection 5.3** Complete Actions listed in Subsection 5.4 Complete Actions listed in Subsection 5.5 Complete Actions listed in Subsection 5.6 Page 20 Page 25 Page 32 Page 41

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		ENCLOS (Page 2 EMERGENCY CLASS	of 17)		
2. Steam Generation	ator Tube Leak/Rup	ture			
UNUSU	IAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EME	RGENCY
Either A or B: A. Greater than 500 gpu leakage to any one a Technical Specificati Coolant System	steam generator per	Either A or B: A. Confirmed steam generator tube leakage greater than 50 gpm <u>AND</u> Steam generator tube leakage within available charging pump capacity <u>AND</u> Loss of off-site power	Steam generator tube leakage greater than available charging pump capacity <u>AND</u> Loss of offsite power		
B. Greater than 1 gpm leakage per Techn Reactor Coolant Sys	total steam generator tube nical Specification 3.4.6.2, ttem	B .Steam generator tube leakage greater than available charging pump capacity.	CAUTION: Consult Attachment 3 for possible Protective Action Recommendations		
		Possible Control	Room Indicators		
PRMS R-15 PRMS R-19		PRMS R-15 PRMS R-19 Charging/Letdown Flow Mismatch	PRMS R-15 PRMS R-19 Charging/Letdown Flow Mismatch		
Complete Actions listed i Page 20	in Subsection 5.3	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Su Page 41	bsection 5.6

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3. Loss of Secondary Coolar	ENCLOS (Page 3 EMERGENCY CLASS	of 17)		
UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMI	FRCENCY
 Either A or B: A. Steamline or feedline break which results Safety Injection actuation. B. Failure of a steam generator safety or dump to atmosphere valve to close results or close results and the secondary depressurits. 	Evidence of significant (greater than 10 gpm) steam generator tube leakage in the affected steam generator.	Steamline or feedline break which results in Safety Injection actuation <u>AND</u> Confirmed RCS DEQ I-131 activity greater than or equal to 300 µCi/gm <u>AND</u> Confirmed steam generator tube leakage greater than 50 gpm in the affected steam generator CAUTION: Consult Attachment 3 for possible Protective Action Recommendations		
	Possible Control	Room Indicators		
	PRMS R-19 Charging/Letdown Flow Mismatch	PRMS R-19 Charging/Letdown Flow Mismatch		
Complete Actions listed in Subsection 5.3 Page 20	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Su Page 41	bsection 5.6

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		ENCLO (Page 4 EMERGENCY CLASS	of 17)	
4. Fuel Ha	ndling Accident			
UNUS	UAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
		A spent fuel element has been dropped or damaged <u>AND</u> Release of radioactivity from the damaged spent fuel element has been detected.	 Either A, B or C: A. Major damage to one or more spent fuel elements has occurred <u>AND</u> Affected area radiation monitors are greater than 10° mR/hr. B. Major damage to one or more spent fuel elements has occurred <u>AND</u> Containment radiation levels greater than 1.3 E4 Rem/hr C. Major damage to one or more spent fuel elements due to water level being below top of spent fuel. 	
		Possible Control	Room Indicators	
		ARMS R-2, 5, 7, 8, 19, 21, 22 PRMS R-12, 14	PRMS R-2, 5, 7, 8, 19, 21, 22 PRMS R-12, 14 SFP Level Indication RI-6311A RI-6311B	
Complete Actions liste Page 20	d in Subsection 5.3	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Subsection 5.6 Page 41

			antar territoria de la composición de l Composición de la composición de la comp	Page: 53
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5. Loss of Safe	Shutdown Funct	ENCLOS (Page 5 <u>EMERGENCY CLASS</u> ions/ATWS	of 17)	
UNUSI	UAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
		Either A, B, C or D:	Either A, B, C or D:	Either A or B:
		 A. Reactor critical <u>AND</u> Failure of the Reactor Protection System to initiate a trip signal when a trip setpoint has been exceeded. B. Reactor critical <u>AND</u> Reactor fails to trip on automatic signal C. Reactor critical <u>AND</u> Reactor fails to trip on manual signal D. RCS temperature increasing due to loss of decay heat removal capability from all of the following: 1) RHR System <u>AND</u> 2) Forced RCS circulation <u>AND</u> 3) Natural RCS circulation 	 A. Inability to bring the reactor subcritical with control rods B. Plant in Mode 1-2-3 <u>AND</u> Loss of steam release capability from all of the following: Condenser steam dumps <u>AND</u> Atmospheric steam dumps <u>AND</u> Atmospheric steam dumps All steam generator safeties C. Plant in Mode 1-2-3 <u>AND</u> Loss of secondary heat sink has occurred <u>AND</u> RCS bleed and feed is required. D. Plant in Mode 1-2-3 <u>AND</u> RCS bleed and feed is required. D. Plant in Mode 1-2-3 <u>AND</u> RCS bleed and feed is required. D. Plant in Mode 1-2-3 <u>AND</u> RCS injection capability has been lost from: Charging pumps <u>AND</u> High-head SI pumps except due to loss of all AC power. Refer to Section 10, Loss of Power Conditions 	 A. Inability to bring the reactor subcritical <u>AND</u> RCS pressure greater than 2485 psig. B. Inability to bring the reactor subcritical <u>AND</u> Containment pressure greater than or equal to 4 psig. CAUTION: Consult Attachment 3 for required Protective Action Recommendations.
		Possible Control		
Complete Actions listed Page 20	in Subsection 5.3	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Subsection 5.6 Page 41

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edure No.: Pr	ocedure Title:			· ·	Page:	54
)-EPIP-20101		Duties of Emerge	ency Coordinator	······		proval Date 5/31/00
		ENCLOS (Page 6 EMERGENCY CLASS	of 17)		<u>' , , , , , , , , , , , , , , , , , , ,</u>	
6. Fuel Element	Failure					
	LEVENT	ALERT	SITE AREA EMERGENCY	GENERAL EM	ERGENC	 Y
RCS activity requiring pla per Technical Specificatio	Int snutdown or cooldown n 3.4.8.	Either A, B or C: A. Confirmed RCS DEQ I-131 activity greater than or equal to 300 µCl/gm. B. An increase of greater than 1% fuel failure in 30 minutes. C. Total fuel failure of 5%.	 Fuel element failure as indicated by A, B, or C: A. Confirmed RCS DEQ I-131 activity greater than or equal to 300 µCl/gm. <u>AND</u> RCS T_{int} greater than 620°F. B. Confirmed RCS DEQ I-131 activity greater than or equal to 300 µCl/gm. <u>AND</u> Core exit thermocouples greater than 700°F. C. Containment high range radiation monitor reading greater than 1.3 E4 Rem/hr. 	 Fuel element failure as define Emergency of this section <u>AND</u> Any of the following is immine a) LOCA with loss of containable b) LOCA with loss of contain <u>OR</u> c) Steam generator tube in flowpath from the rupture the environment. CAUTION: Consult Attachin Protective Action 	ent or in prop aloment cool aloment inte he environm upture with u red steam ge nent 3 for red	gress: ling grity which ent misolable enerator to puerad
		Possible Control	Room Indicators	1i		
		PRMS R-20 ARMS R-1 through R-6	Core Exit Thermocouples RI-6311A RI-6311B			
Complete Actions listed in Page 20	Subsection 5.3	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Su Page 41	bsection 5.6	

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-EPIP-20101		Duties of Emerg	ency Coordinator	Approval Date 5/31/00
		ENCLO (Page 7		
7 Lincontroll	ed Effluent Release	EMERGENCY CLASS	SIFICATION TABLE	
	SUAL EVENT			
	stricted Area has occurred or	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
is in progress which e	exceeds either A or B:	A release to the Unrestricted Area has occurred or is in progress which exceeds either A or B:	Performance of 0-EPIP-20126, Off-site Dose Calculation or off-site surveys indicate site boundary exposure levels have been exceeded as indicated by either A, B, C, or D:	Performance of 0-EPIP-20126, Off-site Dose Calculation or off-site surveys indicate site boundary exposure levels have been exceeded as indicated by either A, B, C, or D:
per off-site dose	gaseous release (Control 3.2) estimates performed in 0-EPIP-20126, Off-site Dose	A. Ten times ODCM limits for gaseous release (Control 3.2) per off-site dose estimates performed in accordance with 0-EPIP-20126, Off-site Dose Calculations.	A. greater than or equal to 50 mrem/hr total dose rate for 1/2 hour	A. greater than or equal to 1000 mrem/hr total dose rate
			B. greater than or equal to 250 mrem/hr to the thyroid for 1/2 hour	B. greater than or equal to 1000 mrem total dose (TEDE)
B. ODCM limits for	liquid release (Control 2.3).	B. Ten times ODCM limits for liquid release (Control 2.3).	C. greater than or equal to 500 mrem/hr	C. greater than or equal to 5000 mrem/hr to the
			total dose rate for 2 minutes	thyroid
	tuation does not in itself e exceeding ODCM limits.	NOTE: Alarm Actuation does not in itself constitute exceeding ODCM limits.		
			D. greater than or equal to 2500 mrem/hr to the thyroid for 2 minutes	D. greater than or equal to 5000 mrem thyroid dose (CDE)
			NOTE: Site boundary equals 1 mile radius from affected unit.	NOTE: Site boundary equals 1 mile radius from affected unit.
			CAUTION: Consult Attachment 3 for possible Protective Action Recommendations.	CAUTION: Consult Attachment 3 for required Protective Action Recommendations.
		Possible Control	Room Indicators	
Complete Actions liste	d in Subsection 5.3	Complete Actions listed in Subsection 5.4		
Page 20		Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Subsection 5.6 Page 41

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EMERGENCY CLASSIFICATION TABLE

8. High Radiation Levels In Plant			
UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
	Severe loss of control of radioactive materials as indicated by either A, B or C: A. Unexpected valid area monitor alarm from an undeterminable	Containment High Range Radiation Monitor reading greater than 1.3 E4 Rem/hr.	Containment High Range Radiation Monitor reading greater than 1.3 E5 Rem/hr.
	source with meter greater than 10 ³ mR/hr.	NOTE: Direct Chemistry to perform offsite dose estimates per 0-EPIP-20126, Off-site Dose Calculations.	NOTE :Direct Chemistry to perform offsite dose estimates per 0-EPIP- 20126, Off-site Dose Calculations. (See Section 7, Uncontrolled Effluent Release)
	 B. Unexpected plant iodine or particulate alrborne concentration greater than 1000 DAC as per 10 CFR 20 Appendix B, Table 1. 	(See Section 7, Uncontrolled Effluent Release) CAUTION: Consult Attachment 3 for possible Protective Action Recommendations.	CAUTION: Consult Attachment 3 for required Protective Action Recommendations.
	C. Unexpected direct radiation dose rate reading or unexpected airborne radioactivity concentration from an undetermined source in excess of 1000 times normal levels.		
	Possible Control	Room Indicators	
•	Area Radiation Monitors	RI-6311A RI-6311B	RI-6311A RI-6311B
Complete Actions listed in Subsection 5.3 Page 20	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Subsection 5.6 Page 41

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		EMERGENCY CLASS	SIFICATION TABLE		
		Lead To Substantial Core Damag	e		
UNU	SUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EME	RGENCY
		Possible Control	Room Indicators	5) No AFW flow for gre CAUTION: Consult Attachm	ter than available acity deliver flow to the Range Radiation reter than 1.3 E4 wilcated by all of the neat sink d required
					······································
Complete Actions list	ed in Subsection 5.3	Complete Actions listed in Subsection 5.4	Complete Actions listed in Subsection 5.5	Complete Actions listed in Sub	section 5.6
Page 20		Page 25	Page 32	Page 41	Section 5.6

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10 Loss Of Boy		EMERGENCY CLASS	SIFICATION TABLE		
10. Loss Of Pow	SUAL EVENT				
Either A or B:	VAL EVENI	ALERT	SITE AREA EMERGENCY	GENERAL EME	RGENCY
A. Loss of offsite po	ower to the:	Either A or B: A. Loss of all vital on-site DC power.	Either A, B or C with fuel in the Reactor Vessel	The following situation exists in with fuel in the Reactor Vesse	for greater than 1 hr
1) A 4KV bus			A. Loss of all A/C power for greater than 15 minutes.	a) Loss of all A/C power <u>AND</u>	
2) B 4KV bus		B. Loss of offsite power <u>AND</u>		b) Loss of all feedwater cap	ability.
		Both associated emergency diesel generators fail to energize their associated 4KV buses.	 B. Loss of all vital on-site DC power for greater than 15 minutes. 		ment 3 for required on Recommendations.
	••••		1 1	1	
B. Loss of on-site p by:	power capability as indicated	NOTE: Refer to Section 5, Loss of Safe Shutdown Function	C. Emergency Coordinator leaves Control Room within the first 15 minutes of a loss of all A/C <u>OR</u> DC power.		
vital 4KV	pability to power at least one bus from <u>any</u> of the four nergency diesel generators.				
		Possible Control (Room Indicators	<u></u>	
4KV Bus Voltage 4KV Bus Amps					
Complete Actions liste Page 20	d in Subsection 5.3	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Sub Page 41	section 5.6

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		ENCLO (Page 1)			
11 Loss Of Ass	essment Functions	EMERGENCY CLASS	SIFICATION TABLE		
UNUS	UAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EM	DGENCY
Annunciators for B. Loss of primary co locations Loss of all backup locations	of most or all Safety System greater than 15 minutes communications with off-site <u>AND</u> o communications with offsite	Unplanned loss of <u>ALL</u> Safety System Annunciators <u>AND</u> Plant Transient in progress	Inability to monitor a significant transient in progress		
		Possible Control	Room Indicators		
Complete Actions listed Page 20	1 in Subsection 5.3	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Sut Page 41	psection 5.6

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EMERGENCY CLASSIFICATION TABLE

12. Natural Phenomena

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	
UNUSUAL EVENT Plant in Mode 1-2-3-4 AND either A, B, C or D: A. Confirmed hurricane warning OR B. Confirmed hurricane warning OR B. Confirmed hurricane warning OR OR C. Any earthquake detected on site OR OR D Hurricane/flood surge that prevents land access to the site	ALERT Plant in any mode including defueled. AND either A, B, C or D: NOTE: If accurate projections of on-site wind speeds are not available within 12 hours of entering the hurricane warning, classify the event using current hurricane track and wind speeds to project on-site conditions.	SITE AREA EMERGENCY Plant in Mode 1-2-3-4 <u>AND</u> either A, B or C: NOTE: If accurate projections of on- site wind speeds are not available within 12 hours of entering the hurricane warning, classify the event using current hurricane track and wind speeds to project on-site conditions.	GENERAL EMERGENCY A major natural event (e.g., high winds, earthquake flooding) has occurred, which has caused massive damage to plant systems resulting in any of the other General Emergency initiating conditions. CAUTION: Consult Attachment 3 for required Protective Action Recommendations
	 A. Confirmed hurricane warning with maximum projected on-site wind speeds in excess of 200 mph <u>QR</u> B. Tornado striking any power block structure <u>QR</u> C. Earthquake that could cause or has caused trip of the turbine generator or reactor <u>QR</u> D. Hurricane/flood surge that raises water level greater than 18 feet above MLW 	 A. Confirmed hurricane warning with maximum projected on-site wind speeds in excess of 225 mph <u>AND</u> the unit not expected to be in cold shutdown prior to the projected onset of hurricane force winds <u>QB</u> B. Earthquake has caused loss of any safety system function <u>QB</u> C. Hurricane/flood surge that raises water level greater than 18 feet above MLW and results in shutdown of turbine generator or reactor. 	
	Possible Control		
Complete Actions listed in Subsection 5.3 Page 20	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Subsection 5.6 Page 41

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13. Hazards To	Station Personnel An				
	JAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EME	DOENOV
Safety of nuclear plant either A, B, C, D, or E:	or personnel threatened by	Either A, B, or C:	Either A or B:	GENERAL EME	
A. Aircraft crash on s	ite	A. A reduction in the level of safety of plant structures or components within the protected area due to damage caused by either 1), 2), or 3):	A. Plant in Mode 1-2-3-4 <u>AND</u> Safety systems have failed or damage to vital structure has been caused by either 1), 2), or 3):		
B. Unusual aircraft a	ctivity over facility	1) Aircraft crash <u>OR</u> 2) Missile impact	1) Aircraft crash QB		
C. Toxic or flammabl	e gas release	<u>OB</u> 3) Explosion	2) Missile impact <u>OR</u> 3) Explosion		
D. Turbine generator requiring rapid turk	rotating component failure bine shutdown	NOTE: Explosion is defined as a rapid chemical reaction resulting in noise, heat and the rapid expansion of gas.	NOTE: Explosion is defined as a rapid chemical reaction resulting in noise, heat and the rapid expansion of gas.		
E. On-Site Explosion					
NOTE: Explosion is reaction resu rapid expansi	defined as a rapid chemical Iting in noise, heat and the Ion of gas.	 B. Toxic or flammable gas release which threatens plant operation. 	B. Toxic or flammable gas release into control or vital areas which renders one train of Safety Related Systems inoperable.		
		C. Turbine generator failure resulting in casing penetration.	•		
		Possible Control	Room Indicators		
Complete Actions listed					
Page 20	III SUDSPCION 5.3	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Sut Page 41	section 5.6

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14. Security Threat		ENCLO (Page 14 EMERGENCY CLAS	SURE 1 4 of 17) SIFICATION TABLE		
UNUSUAL E					
		ALERT	SITE AREA EMERGENCY	GENERAL EM	
Declaration of a Security Aler C, D, E, F, G, H A. Bomb Threat	t due to either A, B,	Declaration of a Security Emergency	Declaration of a Security Emergency involving imminent occupancy of the Control Room or other vital areas by intruders.	Physical attack on the plant n of the Control Room or other intruders.	esulting in occupation vital areas by
B. Attack threat				CAUTION: Consult Attach Protective Acti	ment 3 for required on Recommendation
• • • • • • • • • • • • • • • • • •	• • • • • • • •				
C. Civil disturbance					
•••••	• • • • • • • • •				
D. Protected area intrusion					
	• • • • • • • •				
E. Sabotage attempt					
•••••	•••••				
F. Internal disturbance					
••••••	••••••				
G. Vital area intrusion					
H. Security Force strike				·	
	- · · · · · · · · · · · · · · · · · · ·	Possible Contro	Room Indicators		
Complete Actions listed in Sub	eaction 5.2	Complete Apliana Valad In Cube 1 5 A			
Page 20	50001 3.3	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Su Page 41	bsection 5.6

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45 0		EMERGENCY CLAS	SIFICATION TABLE		
15. Control Ro	om Evacuation				
UNUSU	AL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EM	BGENCY
		Control Room evacuation anticipated or required.	Control Room has been evacuated <u>AND</u> Local control of shutdown systems has <u>NOT</u> been established from local stations within 15 minutes.		
		Possible Contro	Room Indicators		
·······					
16. Fire					
UNUSU	AL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EM	RGENCY
Uncontrolled fire within the longer than 10 minutes.	he power block lasting	Uncontrolled fire potentially affecting safety systems	Fire which prevents a safety system from performing its design function	A major fire has occurred whi	ch has caused

longer than 10 minutes.	Safety systems <u>AND</u> Offsite support required	Fire which prevents a safety system from performing its design function.	A major fire has occurred which has caused massive damage to plant systems resulting in any of the other General Emergency initiating conditions.
			CAUTION: Consult Attachment 3 for required Protective Action Recommendations.
	Possible Control	Room Indicators	
Complete Actions listed in Subsection 5.3 Page 20	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Subsection 5.6 Page 41

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17. Plant Sh	hutdown	ENCLOS (Page 16 EMERGENCY CLASS	5 of 17)	· · · · · · · · · · · · · · · · · · ·	
			T	·	
	SUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EME	ERGENCY
Specifications in whic	required by Technical ich the required shutdown I within the Action Statement				
		Possible Control	Room indicators		
			1	· · · · · · · · · · · · · · · · · · ·	
Complete Actions list Page 20	ed in Subsection 5.3	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Su Page 41	bsection 5.6

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18. Other Plan	nt Conditions Requirin	ENCLOS (Page 17 EMERGENCY CLASS g Increased Awareness (Emergenc	7 of 17) SIFICATION TABLE		
UNUS	SUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EME	BGENCY
plant conditions exist awareness on the pa and/or local off-site a NOTE: Activation of Response declaration	of the Emergency Facilities does not require to f an emergency or entry iffic emergency	Emergency Coordinator's judgment that other plant conditions exist which warrant the increased awareness and activation of emergency response personnel.	Emergency Coordinator's judgment that other plant conditions exist which warrant the precautionary notification to the public near the site and the activation of FPL and off-site agency emergency response personnel. (Reflects conditions where some significant releases are likely or are occurring but where a core melt situation is not indicated based on current information)	Emergency Coordinator's judg plant conditions exist which m large amounts of radioactivity of time, possible (Loss of two fission product by potential for loss of the third, s imminent substantial core deg with the potential for loss of co CAUTION: Consult Attack required Prote Recommenda	gment that other nake release of , in a short period arriers with such as, actual or gradation or melting ontainment.)
		Possible Control	Room Indicators	· · · · · · · · · · · · · · · · · · ·	
Complete Actions liste Page 20	ed in Subsection 5.3	Complete Actions listed in Subsection 5.4 Page 25	Complete Actions listed in Subsection 5.5 Page 32	Complete Actions listed in Sut Page 41	bsection 5.6

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GUIDELINES FOR EMERGENCY COORDINATOR WHEN TRANSFERRING RESPONSIBILITIES

The following subjects should be covered in the turnover, if applicable, when transferring responsibilities of Emergency Coordinator from Control Room to TSC and from TSC to EOF:

- 1. The current Emergency Classification.
- 2. Current Protective Action Recommendations.
- 3. Time and content of last notification made to the State and Counties.
- 4. Time and content of last notification made to the NRC.
- 5. Status of Plant.
- 6. Significant equipment issues.
- 7. Significant Emergency Response issues.
- 8. If communication links have been established.

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DE-ESCALATION GUIDELINES

Once the Plant classifies a Site Area Emergency, or General Emergency, only the Recovery Manager has the authority to de-escalate to a lower classification level. The following guidelines provide points to consider when de-escalation may be appropriate.

- 1. Review Enclosure 1 to assure that classification criteria to enter event is no longer applicable, or referenced situations are under control.
- 2. Verify, additionally, that the plant is stable, under control, and trend or prognosis indicates that improvement is the most likely prospect. Consider the following:
 - a. Sub-criticality
 - b. Core cooling mode
 - c. Heat sink mode
 - d. RCS Pressure Boundary Integrity
 - e. Inventory Control (Primary and Secondary Coolant)
- 3. Verify there is no foreseeable likelihood of a significant uncontrolled release. Consider the following:
 - a. Containment Pressure
 - b. Containment/Auxiliary Building Radiation Levels.
 - c. Waste Gas Storage Tank Pressures and Activities
 - d. Contaminated Water Volumes and Activities
- 4. Verify long-term staffing for both the site and EOF is organized in place as appropriate for the event.
- 5. Consider reviewing the USNRC Response Technical Manual (RTM-96), Section H, Intermediate Phase Protective Action Assessment, for guidance on whether the incident source and releases have been brought under control. (Reference Substep 2.1.2.4)

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	FLORI	DA NUCLEAR PLANT EM	ERGENCY NOTIFICATION	FORM
	2. A. Time/Date cont C. Message Numb	er TAL RIVER UNIT 3 B. 🗌 S	TUAL EVENT B. Reported by: (Name/Title) D. Reported from: Control T LUCIE UNIT 1 D. TURKEY T LUCIE UNIT 2 E. TURKEY	Room TSC EOF
	4. ACCIDENT CLAS		N OF UNUSUAL EVENT C. 🔲 SI	TE AREA EMERGENCY
		B. 🗋 ALERT	D. 🗌 GI	ENERAL EMERGENCY
	5. <u>CURRENT EMERGE</u> 6. <u>REASON FOR EMER</u>	NCY DECLARATION: TIME:	DATE	
	7. ADDITIONAL INFORM	MATION OR UPDATE:		
		······································		
:	8. INJURIES REQUIRIN		Yes Unknown B. Contaminated: (]No]Yes]Unknown
	9. WEATHER DATA:	A. Wind direction from B. Downwind Sectors Affected (min	degrees. imum of 3):,,,,	
	10. <u>RELEASE STATUS:</u>	A. D No Release (Go to Item 12) B. A Release is occurring	C. C A Release occurred,	but stopped
	A. 🗍 Information B. 🗍 Release wit C. 🗌 Non-Signific		ec noble gas, ≤ 3.7 E-4 ci/sec lodine) is > normal limits and < 500 mR TED	
	12. UTILITY RECOMME	ENDED PROTECTIVE ACTIONS		
	A. 🗌 NONE <u>OR</u>	B. SHELTER ZONES/AN EVACUATE ZONES/AN EVACUATE ZONES/AN O - 2 2 - 5 5 - 10	AREA: (Not for FPL Use)	LTER SECTORS
	13. <u>HAS EVENT BEEN</u>	TERMINATED?: A 🗋 NO	B. 🗌 YES Time	Date
		FORM IS ATTACHED?: A. 🗌 NO	—	e
	15. <u>MESSAGE RECE</u>	IVED BY: Name		e
1	F-439:1/3			

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•								
			ł	ATTACHMENT 1				
	FLORI	DA NUCLEAR P	LA	(Page 2 of 3) NT EMERGENC	Yľ	NOTIFICATION	FC	DRM
				MENTAL DATA				
: : * ·	The following supplement of higher Supplement	to Message Numbe	er				d o	perational at Alert
	CRITICAL SAFETY FU		ТC	ONDITIONS INFORM	MA	TION		
	A. REACTOR SHUTD			Γ	וב	YES 🗌 NO		
	B. CORE ADEQUATE				_	YES 🔲 NO		
				ABLE (DIESELS)				
	FISSION PRODUCT B					THE REAL PROPERTY OF THE PARTY	22	THE REPART AND A DISTORT
	BARRIER	ENTACTES	N.	CHALLENGED.	至	LOST	Å.	REGAINED
		No Indication of clad damage		Clad is intact but losing subcooling, water level, etc.		Ciad has failed, indicated by high temps., high containment rad, etc		Cooling restored, no further degradation expected
	PRI REACTOR COOLANT SYSTEM	Leakage is within normal charging or makeup pump capacity		Leakage is within safety injection capacity		Leakage exceeds safety injection capacity		Leakage reduced to within injection capacity (system repaired)
		No evidence of containment leakage or tube rupture release is only through condenser		No leakage but containment pressure is at or above safety system actuation points		Evidence of containment leakage (known release path or rad surveys)		Repair Efforts have isolated leak or containment pressure has reduced to stop leakage
	COMPLETED BY:_	TIM	IE:_	D)AT	'E:		
		BADIOLO	DGI	CAL DOSE ASSESS	ME			· · · · · · · · · · · · · · · · · · ·
	1. <u>RELEASE STATUS</u>		se	(no further data requi			oc	curred, but stopped
	 <u>RELEASE RATE:</u> NOBLE GASES IODINES: <u>TYPE OF RELEASI</u> AIRBORNE: 	Cur <u>=:</u>	ies	per second D Me per second D Me	eas	ured 🗌 Default	tari	ed:
		Time/Date stop				Time/Date s		
	4. PROJECTED OFFS DISTANCE	THYROID DOS	ER			TOTAL DOSE RAT	TF	
	1 Mile (Site Boundary)				1	Bn		
	2 Miles	C		_mrem/hr		D		
	5 Miles	Ε				Fn		
	10 Miles	G			1	Нп	hrei	m/hr
	5. <u>WEATHER DATA (I</u> A. Wind Direction from		ata)	Ŀ				
	B. Wind Speed							
	C. Stability Class							
	COMPLETED BY:			_ TIME:	[DATE:		
	Emergency Coordinator							
	F-439:2/3							
	W97.IR/dt/ev/sw							

_W97:JR/dt/ev/si

Procedure No.:

Procedure Title:

0-EPIP-20101

Duties of Emergency Coordinator

5/31/00

ATTACHMENT 1 (Page 3 of 3)

FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM

METEOROLOGICAL WORKSHEET

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARs should be L, M, N and P.

SECTOR INFORMATION:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348-11	S	НЈК
[B]	NNE	11-33	SSW	JKL
[C]	NE	33-56	SW	KLM
[D]	ENE	56-78	WSW	LMN
[E]	E	78-101	W	MNP
[F]	ESE	101-123	WNW	NPQ
[G]	SE	123-146	NW	PQR
[H]	SSE	146-168	NNW	QRA
[1]	S	168-191	N	RAB
[K]	SSW	191-213	NNE	ABC
[L]	SW	213-236	NE	BCD
[M]	WSW	236-258	ENE	CDE
[N]	W	258-281	E	DEF
[P]	WNW	281-303	ESE	EFG
[Q]	NW	303-326	SE	FGH
[R]	NNW	326-348	SSE	GHJ

STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See 0-EPIP-20126, Off-site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY:

Stability <u>Classification</u>	Pasquill <u>Categories</u>	Primary Delta T (°F)	Backup Sigma Theta <u>Range (Degrees)</u>
Extremely unstable	Α	ΔT ≤ -1.7	ST ≥ 22.5
Moderately unstable	В	-1.7 <ΔT ≤ -1.5	$22.5 > ST \ge 17.5$
Slightly unstable	С	$-1.5 < \Delta T \le -1.4$	$17.5 > ST \ge 12.5$
Neutral	D	$-1.4 < \Delta T \le -0.5$	12.5 > ST ≥ 7.5
Slightly stable	Ε	$-0.5 < \Delta T \le +1.4$	7.5 > ST ≥ 3.8
Moderately stable	F	+1.4 <∆T ≤ +3.6	$3.8 > ST \ge 2.1$
Extremely stable	G	+3.6 <ΔT	2.1 > ST

Meteorological information needed to fill out the Florida Nuclear Plant Emergency Notification Form is available from the Dose Calculation Worksheet (0-EPIP-20126). The Worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.

F-439:3/3

W97;JR/dt/ev/sw

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0.	EPIP	-201	01
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5/31/00

ATTACHMENT 2 (Page 1 of 2)

EVENT NOTIFICATION WORKSHEET NRC FORM 361

NRC FORM 361

US NUCLEAR REGULATORY COMMISSION OPERATIONS CENTER

EVENT NOTIFICATION WORKSHEET

NOTIFICATION TIME FACILITY OR ORG		NIZATION	UNIT	CALLER'S NAME		ALL BACK: ENS R()		
EVENT TIME & ZONE EVENT DATE		1-Hr Non-Emergency 10 CFR 50.72 (b) (1)			H	(v) Lost Offsite Comms (vi) Fire		
		(i) (A) T	S Requin	ed S/D		(vi) Toxic Gas		
POWER MODE BEFORE	POWER MODE AFTER	(i) (B) T	S Deviati	on		(vi) Rad Release		
		(ili) C	Degraded	Condition		(vi) Other Hampering Safe Op		
		(ii) (A) U	Inanalyze	d Condition		4-Hr Non-Emergency		
Event Classif	fications	(ii) (B) C	Outside De	esign Basis		10 CFR 50.72 (b) (2)		
		(ii) (C) N	lot Cover	d by OPs/EOPs		(I) Degrade While S/D		
GENERAL EMERGE	NCY	(iii) E	arthquak	e		(II) RPS Actuation (Scram)		
SITE AREA EMERGI	ENCY	(iii) F	lood			(II) ESF Actuation		
ALERT		(iii) H	lurricane	· · · ·		(iii) (A) Safe S/D Capability		
UNUSUAL EVENT		(iii) lo	e/Hail			(iii) (B) Rhr Capability		
50.72 NON-EMERGE	INCY	(III) L	ighting		\square	(III) (C) Control of Rad Release		
PHYSICAL SECURITY (73.71) (III) Tornado			(III) (D) Accident Mitigation					
TRANSPORTATION		(ili) O	ther Natu	ral Phenomenon	Π	(iv) (A) Air Release >2X App B		
20.403 MATERIAL/E	XPOSURE	(iv) E	CCS Disc	harge to RCS	(iv) (B) Liq Release >2X App B			
OTHER		(V) L	ost ENS		П	(v) Offsite Medical		
		(V) L	ost Emerg	. Assessment	Π	(vi) Offsite Notification		

DESCRIPTION

Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.

NRC RESIDENT	YES	NO	BE	ANTTHING UNUSUAL OR N	YES (Explain above)	ł	NO	
STATE(s)				DID ALL SYSTEMS FUNCTION	YES		NO	
LOCAL							(Explain above)	
OTHER GOV AGENCIES	-			MODE OF OPERATION UNTIL CORRECTED	ESTIMATE FOR RESTART DATE:		Γ	ADDITION INFO ON BACK?

F-443/1:2

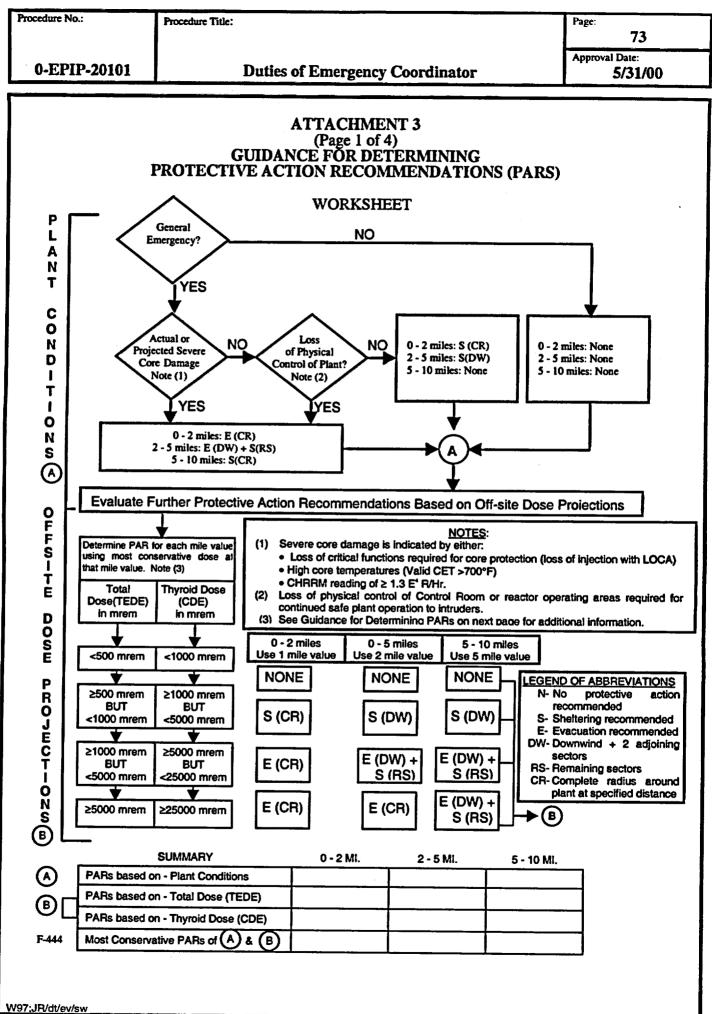
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										Approval Date:					
0-EPIP-20101	Du										5/31/00				
	ATTACHMENT 2 (Page 2 of 2) EVENT NOTIFICATION WORKSHEET														
NRC FORM 361					NRC FO	OR	M 3	61	ANSHEE I	L	U	SNRC OP	ER/	ATIC	ONS CENTER
RADIOLOGICAL R	ELEASES	S CHECK OR FIL	LL IN	AP		IS (s	pecifi	: detail	s/explanations	shou	ild b	e covered i	in ev	rent	description)
LIQUID RELEASE		OUS RELEASE			PLANNED RELEA				NED RELEASE			GOING			ERMINATED
MONITORED	UNMO	NITORED		OF	FSITE RELEASE			T.S. E	KCEEDED		RM	ALARMS		-	REAS EVACUATED
PERSONNEL EXPOSE	D OR CON	TAMINATED			OFFSITE PROTE	CTI	E ACT	ONS RE	COMMENDED			*State rele	458 E		in description
		Release R (Ci/sec)			% T.S. LIMIT	н	00 G	UIDE	Total Activi	ty ((CI)	% T.S. I	LIMI	п	HOO GUIDE
Noble Gas							0.1 Ci	sec				-			1000 CI
lodine	_		_			_1	0 μCi	sec							0.01 Ci
Particulate				1			1 μ Ci /	sec							1 mCi
Liquid (excluding tri dissolved noble gear						1	0 µCi	min							0.1Ci
Liquid (fritium)						0.2 Ci/min		min					_		5 CI
Total Activity				1											
		PLANT STA	CK CONDENSER/AIR EJECTOR MAIN STEAM SG BLC					G BLOWD	OWDOWN OTHER						
RAD MONITOR READ	INGS:											-			
ALARM SETPOINTS:				T										-	
% T.S. LIMIT (If applic	abie)			T							1-				
RCS OR SG TUBE LEAKS (CHECK O	R FILL IN APPLIC	ABLE	ITE	MS: (specific de	talls	/explo	nation	s should be cov	ere (d in i	event desc	ripti	ion)	
LOCATION OF THE LE			_				-								
LEAK RATE:	UNITS	gpm/gpd	T.S. Limits: SUDDEN OR LONG TERM DEVELO							DEVELOP	MEN	NT:			
LEAK START DATE:	LEAK START DATE: TIME:				COOLANT ACTIVITY & UNITS: PRIMARY - SECONDARY -								NDARY -		
LIST OF SAFETY RELATE	D EQUIF	MENT NOT OF	PERA	TIC	DNAL:										
			EVE!	NT	DESCRIPTION	(Co	ntinu	d from	n front)		i				
															1
															1
	<u></u>			-								-	_	•	
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Procedure No.:

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Duties of Emergency Coordinator

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ATTACHMENT 3 (Page 2 of 4)

GUIDANCE FOR DETERMINING PROTECTIVE ACTION RECOMMENDATIONS (PARS)

FPL is required to provide county and state governmental authorities with recommendations for protective action to be taken by the public during radiological emergencies at the Turkey Point Nuclear Plant. The responsible authorities are the State Division of Emergency Management (DEM), Miami-Dade County Office of Emergency Management and Monroe County Office of Emergency Management.

Protective Action Recommendations (PARs) should be made utilizing all of the available data. This includes plant status, off-site dose projections and/or field monitoring data. The more conservative recommendations should be made.

Beginning at the top left side, answer the General Emergency question. If yes, continue on, following the arrows, and answering the other question blocks. Record the PARs based on Plant Condition (A) in the Summary Block at the bottom of the page. From the PAR based on Plant Condition's block continue following arrow to next box, and determine PARs based on Off-site Dose Projections (B) Total Dose (TEDE) and Thyroid Dose (CDE). In determining PARs, both plant conditions AND off-site doses must be considered for all PARs. If a release has not occurred, then proceed with issuance of PARs from the plant condition determination.

To determine PARS from off-site doses, find the blocks that correspond with the Total Dose (TEDE) and Thyroid Dose (CDE) at 1, 2 and 5 miles from the Dose Calculation Worksheet (0-EPIP-20126). Follow across to the column that indicates the distance where that dose was found i.e., first block for 1 mile, second block for 2 miles, or third block for 5 miles. (B) Record the PARs based on Off-site Doses in the Summary Block. Once PARs are determined for all mile sectors for both Total Dose (TEDE) and Thyroid Dose (CDE) (B), then a comparison with the Plant Condition PARs (A) is performed, and the most conservative PARs for each mile sector is selected for issuance to off-site agencies.

The following example is provided:

EXAMPLE

A release has occurred at the Turkey Point Plant. The wind direction is from the SSE and the projected off-site accumulated Thyroid Dose (CDE) is 5,000 mrem at 1 mile, 1,000 mrem at 2 miles, and less than 1,000 mrem at 5 miles. The plant is in a General Emergency with CHRRM at 100 R/hr, no core damage indicators, and no loss of physical control of the plant.

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ATTACHMENT 3 (Page 3 of 4)

GUIDANCE FOR DETERMINING PROTECTIVE ACTION RECOMMENDATIONS (PARS)

Using the PAR Worksheet, the following recommendations should be made:

Based on our current assessment of all the information now available to use, Florida Power & Light Company recommends that you consider taking the following protective actions.

- A. EVACUATE all people between 0 and 2 miles from the plant.
- B. SHELTER all people between a 2 and 5 mile radius form the plant who are in Sectors Q, R and A (refer to Attachment 1).
- C. No protective actions is recommended between a 5 and 10 mile radius from the plant.

Due to the large political and legal ramifications of these recommendations and the potential impact on FPL, the following guidelines, format and content should be used.

(1) If the emergency has not been classified as a GENERAL EMERGENCY and the off-site doses are LESS THAN 500 mrem Total Dose (TEDE) or 1,000 mrem Thyroid Dose (CDE) at 1 mile over the projected duration of the release, no protective action is recommended. When reporting to DEM and other off-site agencies who inquire, this should be reported in a manner similar to the following:

Based on our urgent assessment of all the information now available to us, Florida Power & Light Company recommends that you consider taking the following protective actions - NONE. This recommendation may change in the future, but we cannot now say when it may change or what the change may be.

(2) When available, both plume calculation and off-site monitoring results should be evaluated when making protective action recommendations. If significant discrepancies exist between field monitoring results and plume dispersion calculations, then the discrepancy should be reviewed, and the appropriate value should be selected in the determination of protective action recommendations.

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Duties of Emergency Coordinator

ATTACHMENT 3 (Page 4 of 4)

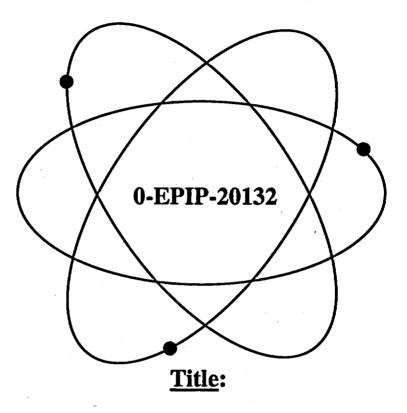
GUIDANCE FOR DETERMINING PROTECTIVE ACTION RECOMMENDATIONS (PARS)

- (3) Thyroid Dose (CDE) Limits for PARs are based on adult thyroid. These limits are consistent with EPA Guidelines based on the following criteria:
 - a. uncertainty and potential errors associated with age specific parameters, and
 - b. level of conservatism in the adult values.
- (4) Loss of physical control of the plant to intruders shall be determined by the Emergency Coordinator based on the current operating mode requirements of the unit/plant, and the availability of equipment required for continued safe operation.

FINAL PAGE

Florida Power & Light Company

Turkey Point Nuclear Plant



Technical Support Center (TSC) Activation and Operation

Safety Related Procedure					
Responsible Department:	Emergency Preparedness				
Revision Approval Date:	5/31/00				
Periodic Review Due:	9/22/04				
Implementation Date:	6/1/00				

RTSs 96-0628P, 97-0668, 97-1405, 99-0258P, 00-0248P

Procedure No.:

2

0-EPIP-20132

Procedure Title:

Technical Support Center (TSC) Activation and Operation

Approval Date: 5/31/00

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1.0 PURPOSE

KP/ev

1.1 This procedure provides instructions for the activation and operation of the Technical Support Center (TSC).

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 <u>References</u>

- 2.1.1 Plant Procedures
 - 1. 0-ADM-207, Operations Instructions in the Event of a Situation Not Addressed by Procedure
 - 2. 0-EPIP-1302, PTN Core Damage Assessment
 - 3. 0-EPIP-20101, Duties of the Emergency Coordinator
 - 4. 0-EPIP-20106, Natural Emergencies
 - 5. 0-EPIP-20126, Off-site Dose Calculations
 - 6. 0-EPIP-20133, Operations Support Center (OSC) Activation and Operation
 - 7. 0-HPT-013.3, Calibration and Operation of the Eberline Beta Monitoring System Model AMS-3(A)
- 2.1.2 <u>Miscellaneous Documents</u> (PC/M, Correspondence etc.)
 - 1. Turkey Point Plant Radiological Emergency Plan
 - 2. Emergency Response Directory
 - 3. PC/M 92-134, ERDADS/SAS Datalink to the Emergency Response Data System
 - 4. SFI-6307, Emergency Evacuation and Accountability

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2.2 <u>Record</u> 2.2.1			s Required		
			Completed copies of the below listed item(s) constitute Records and shall be transmitted to QA Records for retention Quality Assurance Records Program requirements:	Quality Assurance in accordance with	
			1. None		
		2.2.2	The various supervisors in the TSC shall maintain log performed during a plant emergency. Logbooks shall be stor areas in the TSC.	books of activities red in the applicable	
		2.2.3	Upon deactivation of the TSC, the following completed transmitted to the Emergency Preparedness Coordinator for a for archival purposes:	documents shall be review and retention	
			1. TSC Staff Accountability Log similar to Attachment 6		
	2.3	<u>Commit</u>	ment Documents		
		2.3.1	None		
3.0	RES	PONSIB	ILITIES		
	3.1	Emerger	ncy Response Organization Members assigned to the TSC are r	responsible for:	
		3.1.1	Bringing any available two-way radios to the TSC for enneeded in the OSC.	nergency use if not	
		3.1.2	Assisting in the Activation/Operation of the TSC in accordar of this procedure.	nce with Section 5.0	
		3.1.3	Using Speed Memos to request tasks/information, as appropria	ate.	
		3.1.4	Performing tasks as requested by their supervisors.		
	3.2	The TSC	C Supervisor is responsible for:		
		3.2.1	Reviewing requests from the Technical Support Group.		
		3.2.2	Reviewing and recommending approval of Team Request Spec	ed Memos.	
		3.2.3	Reviewing and routing Speed Memos to the appropriate super	visor.	
				·	

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- 3.2.4 Ensuring accountability within the TSC is maintained.
- 3.2.5 Directing the activities of the Technical Support Group.
- 3.2.6 Ensuring communication links are functional and established.
- 3.2.7 Providing technical assessment to the Control Room operating staff.
- 3.2.8 Ensuring timely and accurate data/information is provided to the EOF.
- 3.2.9 Ensuring timely and accurate updates of the TSC Status Boards and other informational systems.
- 3.2.10 Ensuring the implementation of 0-EPIP-1302, PTN Core Damage Assessment.
- 3.2.11 Coordinating and verifying facility operational readiness.
- 3.2.12 Ensuring initial and follow-up notifications to the State Warning Point, Dade County and Monroe County are provided.
- 3.2.13 Consulting with the TSC Operations Manager and the Emergency Coordinator on the need to implement Severe Accident Management Guidelines (SAMGs).
- 3.2.14 Reviewing team priorities on the Team Tracking Board.
- 3.3 The Technical Assistant to the Emergency Coordinator is responsible for:
 - 3.3.1 Tracking plant progress through the Emergency Action Levels and providing recommendations to the Emergency Coordinator.
 - 3.3.2 Providing SRO expertise in the TSC for accident assessment functions.
 - 3.3.3 Assisting the TSC Operations Manager in following the Control Room transitions through the Emergency Operating Procedures.
 - 3.3.4 Assisting the Emergency Coordinator in developing Protective Action Recommendations based on Plant Conditions and Off-site Dose Projections.
 - 3.3.5 Ensuring that Protective Action Recommendations made by FPL and Protective Actions issued by government agencies are posted in the TSC.

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		Technical Support Center (TSC) Activation and Operation	Approval Date: 9/23/99
3.4	The T followi	SC Maintenance Manager is responsible for ensuring the ing:	completion of the
	3.4.1	Taking requests for Emergency Response Teams (ERT) that by the Emergency Coordinator and instructing the OSC in t ERT.	have been approved the formation of the
	3.4.2	Tracking and updating ERT progress and providing fee Operations Manager.	dback to the TSC
	3.4.3	Updating the OSC Manager with pertinent information a priorities.	and providing tean
	3.4.4	Obtaining Company vehicles for use by Off-site ERT.	
3.5	The TS	C Operations Manager is responsible for:	
	3.5.1	Forwarding requests for teams from the Control Room Coordinator.	to the Emergency
	3.5.2	Advising the Emergency Coordinator on operational concerns	and requirements.
	3.5.3	Following the transition between Emergency Operating Proceed	dures (EOPs).
	3.5.4	Providing Protective Action Recommendations based on Plan Emergency Coordinator.	nt Conditions to the
	3.5.5	Providing feedback to the Control Room on the status of team	activities.
3.6	The TS	C Health Physics Supervisor is responsible for:	
	3.6.1	Providing off-site radiological data to the TSC Chemistry Super-	ervisor.
	3.6.2	Coordinating the use of the Off-site ERTs with the EOF.	
·	3.6.3	Maintaining communications and updating radiological condi on the Health Physics Network, as required.	tions with the NRC
	3.6.4	Providing information to the Emergency Coordinator on the results obtained by the Off-site ERTs.	radiological survey
	3.6.5	Assessing plant radiological conditions and providing assess Operation Support Center (OSC).	sment results to the
			•

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	3.6.6	Providing recommendations on the authorization of emergen Emergency Coordinator.	icy exposures to the
	3.6.7	Coordinating the activities of the Off-site Assembly Area.	
	3.6.8	Advising the Emergency Response Organization on radiologic	cal control matters.
	3.6.9	Ensuring that personal dosimetry is issued to and periodical emergency responders.	lly checked by TSC
3.7	The TS	C Chemistry Supervisor is responsible for:	
	3.7.1	Coordinating the calculation of Off-site Dose Calculations.	
	3.7.2	Interpreting data and data discrepancies.	
	3.7.3	Reviewing requests for Chemistry samples.	
	3.7.4	Providing Protective Action Recommendations based Projections to the Emergency Coordinator.	on Off-site Dose
3.8	The TS	C Security Supervisor is responsible for:	
	3.8.1	Coordinating the response of the Security Force.	
	3.8.2	Tracking TSC Staff Accountability.	
	3.8.3	Providing assistance to local law enforcement agencies as direct	cted.
	3.8.4	Ensuring that site accountability is performed and Emergency informed of status.	Coordinator is kept
3.9	The TS	C Licensed Operator Support personnel are responsible for:	
	3.9.1	Providing operational information and guidance to the TSC personnel, and other personnel, as necessary, to effectivel Support activities with Operations and other emergency respon	ly coordinate Tech
	3.9.2	Monitoring the status of the unaffected unit and reportin concerns or Technical Specification issues to the TSC Lead En Operations Manager.	ng any operational agineer and the TSC

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3.10	The TS(C Plant Data Status Board Keeper is responsible for:	
		Updating plant data on Status Board with current informat Printout.	ion from ERDADS
	3.10.2	Reviewing logs faxed from Control Room for any critical para on status board.	ameters to be placed
:	3.10.3	Notifying the TSC Supervisor of rapid changes to plant da further instructions, in accordance with guidelines in Enclosur of this procedure.	ata or any need for re 3 and Enclosure 4
3.11	The TSC	C Plant Data Communicator is responsible for:	
3	3.11.1	Establishing communication with the Control Room Communi	icator.
3	3.11.2	Notifying the TSC Supervisor of rapid changes to plant da further instructions, in accordance with the guidelines in Enclosure 4 of this procedure.	ata or any need for Enclosure 3 and
3.12	The TSC	CENS Communicator is responsible for:	
3	3.12.1	Verifying operability of the ENS (FTS-2000) phone equipmen	t.
3	3.12.2	Maintaining open line of communications, if requested, with the	ne NRC.
3.13 7	The TSC	C Site Corporate Communicator is responsible for:	
3	3.13.1	Verifying operability of the TV Monitor System.	
3		Notifying the TSC Supervisor when the TV Monitor Sy operation or needs corrective actions, as appropriate.	stem is ready for
3.14 7	The TSC	C Reactor Engineer is responsible for:	
3	.14.1	Monitoring SAMG criteria in the event that the TSC Supervise the TSC.	sor is not present in
3.15 T	he TSC	Engineering/Maintenance Liason is responsible for:	
3	.15.1	Providing maintenance experience to the Technical Support Gr	oup.
3	.15.2	Acquiring information from the OSC Re-entry Coordinate Technical Support Group.	ors to support the
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4.0 DEFINITIONS

- State Hot Ring Down Telephone (HRD) Installed in the Control Room, TSC, Emergency 4.1 Preparedness Office, and EOF, this system provides dedicated telephone service utilizing pre-designated access codes to notify State and Local Agencies.
- Emergency Notification System (ENS) Installed in the Control Room, TSC, and EOF, 4.2 this automatic ring down system provides dedicated telephone service to the NRC **Operations** Center.
- Health Physics Network (HPN) Installed in two locations in the TSC and two locations in 4.3 the EOF, this system provides dedicated telephone service to the NRC Operations center and NRC Region II response Center for the relay of Health Physics and Environmental Data.
- System Control Center Computer Program A personal computer based software program 4.4 which accesses the System Operations computer via telephone lines to provide real-time system generation and configuration status. This program is installed on the Technical Support Group computer for Emergency Response use.

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5.0	PRO	CEDUR		· · · · · · · · · · · · · · · · · · ·
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ן נ	 		NOTES	l l
 		Ernerge Coordin of the p	the Emergency Coordinator duties are transferred to the TSC ncy Coordinator is then functionally a position in the TSC, E ator duties and responsibilities are not defined in this procedure. R physical location of the Emergency Coordinator, his responsibiliti ant 0-EPIP-20101, Duties of the Emergency Coordinator.	imergency l Regardless t
	•	drinking, his com Emergel	to allow for short relief breaks during emergency situations (e.g. for smoking breaks, etc.), the Emergency Coordinator may temporarily mand and control responsibilities to a qualified individual of this s ncy Coordinator is always responsible for carrying out his non-du- nd for approving notifications to Federal and State Authorities.	turnover L staff. The L
- 	•	supervis etc.) sha	to provide a complete status of Emergency Response Activities, or (Operations, Health Physics, Chemistry, Maintenance, Technica ould give status reports of emergency response activities, as necess rgency Coordinator reviews the Plant Status and updates ERO perso	I Support, I ary, when
1 	•	machine forms to receiving	x machines are available in the TSC. The OUT-GOING TSC Opera is primarily used by the TSC ENS Communicator to transmit n off-site agencies. The IN-COMING TSC Operations Fax machine is information necessary for the operation of the TSC. The TSC HP/ chine is primarily used to transmit HP/Chemistry information to and	otification s used for Chemistry
	•		ral emergency occurs, 0-EPIP-20106, Natural Emergencies, has nd responsibilities which may be applicable to the emergency situatio	
 1	•		is provided as general guidance for set up of the TSC. The difference of the test of the test of the set up and ready for emergency activities at a	
 	•	the Secu personne question Supervis	urity Command Post Operations Advisor is a Licensed Operator sta urity Command Post to provide operational interface and liaison for el during emergency situations when the TSC is activated. Op s regarding security should be coordinated through the TSC or with the Security Command Post Operations Advisor. This positi when a security emergency is declared.	perational Security
	•	which is Buildings Breaker Switch w normal p	nal power supply for the TSC is from Breaker 7 on Distribution i fed from the Florida City Substation line supplying the Administrativ (NAB, NMB, NTC, etc.) An alternate power supply for the TSC 31503 on 4C 3G from the 3C 4KV bus. The TSC 480 Volt Automatic ill supply power from the alternate source if normal power is los ower is regained, the transfer switch will automatically switch ba upply within forty minutes.	e Support C is from c Transfer t. When
 1 	•		nd drinking shall be limited and controlled by the TSC Supervisor, and drinking shall be limited and controlled by surveys reveal any surface or airborne cont	
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•	Procedure No.:	Procedure Title:		Page: 14		
	0-EPIP-20132		Technical Support Center (TSC) Activation and Operation	Approval Date: 9/23/99		
	5.1 Activation of the TSC					
	5.1.1	When r as possi	notified, TSC emergency responders are to report to the ble.	e facility as quickly		
	5.1.2	The firs	st responders to the TSC should do the following:			
			NOTE			
	expedite the	e activati	I have the TSC door unlocked prior to responders arriving a on process. If the door is locked upon arrival, any e the TSC by using the key in the break glass box located o	emergency		
		1. If a loc	not already unlocked by Security, unlock the TSC ated in the break glass box.	using the TSC key		
			ergize breakers for TSC lighting as listed on the bride the TSC door.	eaker panel located		
		3. Sig	n in on the TSC Staff Accountability Board and record	l badge numbers.		
			cure (turn off) the exhaust fans located in the bathroom ve) to establish pressure boundary.	and kitchen (above		
		5. Init	iate TSC Ventilation System by completing the follow	ing tasks:		
		a.	On the Emergency Ventilation Panel, set Air Remo EMERG.	oval Filter switch to		
		b.	On the Emergency Ventilation Panel, set Air Han BYPASS.	dler Unit switch to		
		c.	On the Emergency Ventilation Panel, set Humidit ON.	y Control switch to		
		d.	On the Air Conditioning thermostat, set Thermostat	Fan switch to ON.		
-		e.	Verify the DP Gauge located in the ERDADS Oper west wall indicates a positive pressure when the TS	rator cubicle on the C doors are closed.		
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	5.2 The	TSC Superv	isor should perform the following:			
	5.2.1	Facility	Activation			
		1. Ens	sure Step 5.1.2 for the first emergency responders has	been completed.		
		2. Sig	n in on the TSC Staff Accountability Board and record	d badge number.		
	-	3. Ens Boa	sure all emergency responders sign in on the TSC and.	Staff Accountability		
		staf	sure the following TSC positions have been filled fing requirements prior to the Emergency Coordinato erational:	to satisfy minimum or declaring the TSC		
	·		<u>NOTES</u>			
	Capable personnel who normally fill other positions may be used in minimum staff positions or positions with required functions, i.e., notification/communication, to facilitate fastest possible operability of the TSC.					
	• The minin	• The positions marked in red on the TSC Staff Accountability Board indicate the minimum number of personnel and positions required for TSC activation.				
	6			4		
		a.	Emergency Coordinator (1)			
		b.	TSC Health Physics Supervisor (1)			
		с.	TSC Maintenance Manager (1) or TSC Mechanical	•		
		d.	TSC Technical Assistant to the Emergency Coordin	ator (1)		
		e.	TSC Chemistry Supervisor (1)			
	•	f	TSC ENS Communicator (1)			
		g.	TSC Dose Assessment Technician (1)			
		h.	TSC Reactor Engineer (1)			
		i.	TSC Electrical / I&C Engineer (1)			

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	<u>5.2.1 (Cont'd)</u>	
	5. Upon arrival of the TSC Fire Protection Supervisor, ensu on-site manpower requirements, and the need for off-site	ure determination of assistance.
	6. Verify adequate communication capabilities exist within t	the TSC.
	7. Ensure facility clocks are synchronized to time indicated	on ERDADS.
	8. Take actions to fill position vacancies within the TSC.	
	9. Ensure speed memos, and other supplies are available for	the TSC Staff.
	<u>NOTE</u>	 i
directly from can be obtain	ions and notifications turnover information does not have to be the communicator who is turning over responsibilities. Turnover in ned from any available source in order to expedite facility activation. hould include time, type and content of notification last made to State NRCOC.	formation Minimum
	0. Inform the Emergency Coordinator that these activation	na num na đ
	completed.	on steps have been
1	1. When the Emergency Coordinator's duties have been tran have the Control Room make an announcement to inform the TSC has been activated.	nsferred to the TSC plant personnel that
5.2.2	Facility Operation	
	1. Direct technical and operational assessment activities as re	equired.
• • • • • • •	<u>NOTE</u>	
Status Board frequent upda	s should be updated approximately every 15 minutes or as necessa tes may be required during transients.	ary. More
	 Verify that the Plant Data and Sequence of Events Boards updated in a timely manner. 	are maintained and
	3. Inform the Emergency Coordinator of assessment activit problems.	ies, equipment, and
	4. Periodically verify operability of the TSC ventilation syste	em.
	5. Contact additional support personnel as needed.	
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5.2.2 (Cont'd)

CAUTION

The time frame of notifications should be conducted in accordance with 0-EPIP-20101, DUTIES OF THE EMERGENCY COORDINATOR.

NOTE

Communication links should not be left unattended for periods other than that required to perform assigned duties.

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- 6. Verify operability of, and timeliness of, communication/ notification links.
- 7. Periodically review team priorities on the Team Tracking Board.
- 8. Update the TSC Operations Manager and Emergency Coordinator on team requests and priorities and relay requests and priority adjustments to the TSC Maintenance Manager for disposition.
- 9. Review and route Speed Memos to the appropriate supervisor for resolution/answer.
- 10. Resolve equipment and assessment capability problems.
- 11. Approximately every 45 minutes, have the Emergency Coordinator provide a status update and include the disciplines listed on Attachment 5, or acquire status updates from the disciplines listed on Attachment 5 and provide the completed form to the EC for his update.
- 12. Maintain a log of activities.
- 5.2.3 Facility Closeout and Restoration
 - 1. Coordinate TSC deactivation with the Emergency Coordinator.
 - 2. Deactivate ERDS in accordance with Enclosure 1.
 - 3. Direct TSC deactivation with all TSC personnel.
 - 4. Verify TSC accountability and ensure TSC Security personnel have properly completed a form similar to Attachment 6.
 - 5. Collect all paperwork generated during the event and forward to the Emergency Preparedness Coordinator.

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		<u>5.2.3 (Co</u>	ont'd)	· · · · · · · · · · · · · · · · · · ·
		6. Rest	ore the TSC Ventilation System by completing the fo	llowing tasks.
		a.	On the Emergency Ventilation Panel, set Air Rem NORMAL.	oval Filter switch to
		b.	On the Emergency Ventilation Panel, set Air NORMAL.	r Handler Unit to
		с.	On the Emergency Ventilation Panel, set Humidit OFF.	y Control switch to
		d.	On the Air Conditioning Thermostat, set Thermo AUTO.	ostat Fan switch to
		7. De-e	energize the TSC Continuous Air Monitor and Sample	e Pump.
		a.	Log stop time and date on the CAM strip chart rec front of the CAM.	order located on the
		b.	Ensure the TSC Health Physics Supervisor readiological analysis.	tains the filter for
4.		с.	Unplug CAM power cord.	
		d.	Turn sample pump off using switch located on pum	p power cord.
		8. Ensu	re a final printout of the boards is made and all board	is are erased.
		9. Ensu	re the TSC has been returned to its original condition	l. ·
	1	10. Rele	ase TSC personnel, as appropriate.	
	5.3 The <u>Tec</u>	hnical Ass	sistant to Emergency Coordinator should perform the	following:
	5.3.1	Facility A	Activation	
		I. Cond	luct facility activation as detailed in Subsection 5.1 o	f this procedure.
	· .	2. Dete	rmine present Emergency Action Level status.	
		3. Ensu situa	re latest notifications to off-site agencies correctly tion.	y portrayed present
		4. Assis Proce	st the TSC Operations Manager in utilizing the Eredures.	nergency Operating
		5. Infor comp	m the Emergency Coordinator that these activation bleted.	on steps have been

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5.3.2	2 Facility Operation				
	1. Follow the sequence of events through the associated EF	PPs.			
	a. Ensure completion of applicable steps of 0-EPIP Emergency Coordinator, as verification for the EC				
	2. Assist in the determination of Emergency Action Level	status.			
	3. Assist the Emergency Coordinator in developing Recommendations (PARs) based on plant conditi Operations Manager, and on Dose Projections from Supervisor.	ons from the TSC			
	4. Ensure that Protection Action Recommendations Protection Action Recommendations issued by gove posted on the 10-Mile EPZ Map in the management area	mment agencies are			
•	5. Assist the TSC Operations Manager in following Control through the Emergency Operating Procedures.	ontrol Room actions			
	6. Provide SRO expertise for accident assessment function	s, as necessary.			
	 Assist the Emergency Coordinator with preparation for Attachment 5 as necessary. 	TSC briefings using			
	8. Maintain a log of activities.				
5.4 The <u>T</u>	SC Maintenance Manager should perform the following:				
5.4.1	5.4.1 Facility Activation				
	1. Conduct facility activation as detailed in Subsection 5.1	of this procedure.			
	2. Establish communication link with the OSC Manag number listed in the ERD.	er using the phone			
	3. Commence updating the TSC Team Tracking Board for presently out in the plant (operators involved in mitigation ensure that this information is provided to the OSC Man	on activities, etc.) and			
	4. Update the Emergency Coordinator on the status of OSC	activation.			
	5. Ensure the availability and readiness of company vehic use, as necessary.	cles for Off-site ERT			
	6. Inform the Emergency Coordinator that these activat completed.	ion steps have been			

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- 5.4.2 Facility Operation
 - 1. Inform the Emergency Coordinator when the OSC becomes operational.
 - 2. Inform the OSC Manager when TSC briefings are taking place.
 - 3. Communicate approved team requests to the OSC.
 - a. Record team activities in the logbook.
 - b. Periodically print out copies of the Team Tracking Board for review and retention.
 - c. Fax a printout of the TSC Team Tracking Board to the OSC as necessary.
 - 4. Coordinate assigning priorities to team activities with the following applicable positions and provide the OSC Manager with assigned priorities:
 - a. Emergency Coordinator
 - b. TSC Supervisor
 - c. TSC Operations Manager
 - d. TSC HP Supervisor
 - e. TSC Chemistry Supervisor
 - f. TSC Lead Engineer
 - 5. Provide TSC personnel with updates and results of team activities.
 - 6. Ensure that the Team Tracking Board is maintained and updated in a timely manner.
 - a. Teams assigned multiple tasks should be updated as the tasks are completed in order to maintain accurate and current accountability of the teams.
 - 7. Provide the OSC with pertinent information concerning team activities (i.e., when unit goes to recirculation, release identified, etc.) as it becomes available.
 - 8. Communicate results of damage assessments to the Emergency Coordinator in a timely manner.
 - 9. Maintain a log of activities.

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5.5 The TSC Operations Manager should perform the following:					
5.5.1	Facility	Activation	•		
	I. Con	duct facility activation as deta	iled in Subsection 5.1 c	of this procedure.	
	2. Esta Tecl	blish a three-way communic inical Support Group.	ation link with the Co	ntrol Room and the	
	a.	Establish Control Room co extension (refer to ERD).	ommunications by cal	ling the appropriate	
	b.	Place the Control Room on I	hold by depressing the	conference button.	
	c.	Establish TSC Technical Su Support Extension (Refer to	pport Communications ERD).	by dialing the Tech	
	d.	When TSC Tech Support (conference call with the Co button.	Communications are e ontrol Room by again	stablished, establish pressing conference	
	e.	Conference call should be Operations Manager, and the	established with the (e TSC Technical Suppo	Control Room, TSC ort Group.	
	one microph 	Mute button, after the speaker one and provide Listen Only cap	ability.]	
	f.	Handsfree communications Handsfree mute button and h	may be established and set.	1 by pressing the	
	g.	Ensure the TSC Tech Supp (i.e., with microphone off).	ort Group's phone is i	n Listen Only mode	
	h.	If the TSC Chemistry Sup Extension, ensure Chemistry			
	3. Dete Roor	rmine the status of turnover n.	of the plant operator	rs from the Control	
	oper	fy the Control Room when ators and other teams will OSC.			
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5.5.1 (Cont'd)

- 5. Determine status of jobs being performed/completed by Operations personnel and relay information to the TSC Maintenance Manager and Control Room.
- 6. Upon turnover of notification/communication duties from the Control Room to the TSC, request the designated Control Room Communicator to monitor the radio channel in use by the field operators, and provide status and updates to the Control Room staff.
- 7. Inform the Emergency Coordinator that these activation steps have been completed.

5.5.2 Facility Operation

- 1. Control Room requests for mitigating accidents should be given the highest priority to ensure successful and timely completion of EOP activities.
 - a. Document requests for teams from the Control Room in the logbook and forward requests to the TSC Supervisor.
- 2. Update the Control Room on the team activities in the OSC.
- 3. Act as a liaison between the TSC, OSC, and the Control Room.
 - a. Provide feedback to the Control Room on the status of team activities.
 - b. Communicate results of damage assessments to the Emergency Coordinator in a timely manner.
- 4. Follow Control Room actions through the Emergency Operating Procedures and provide the TSC Maintenance Manager with requests for teams from the EOP's.
- 5. Assist in the determination of Emergency Action Level status.
- 6. Provide plant condition information to the Emergency Coordinator for development of Protective Action Recommendations.
- 7. <u>IF</u> the emergency involves a security response, <u>THEN</u> designate a Licensed Operator to serve as a liaison in SAS/CAS, as needed.

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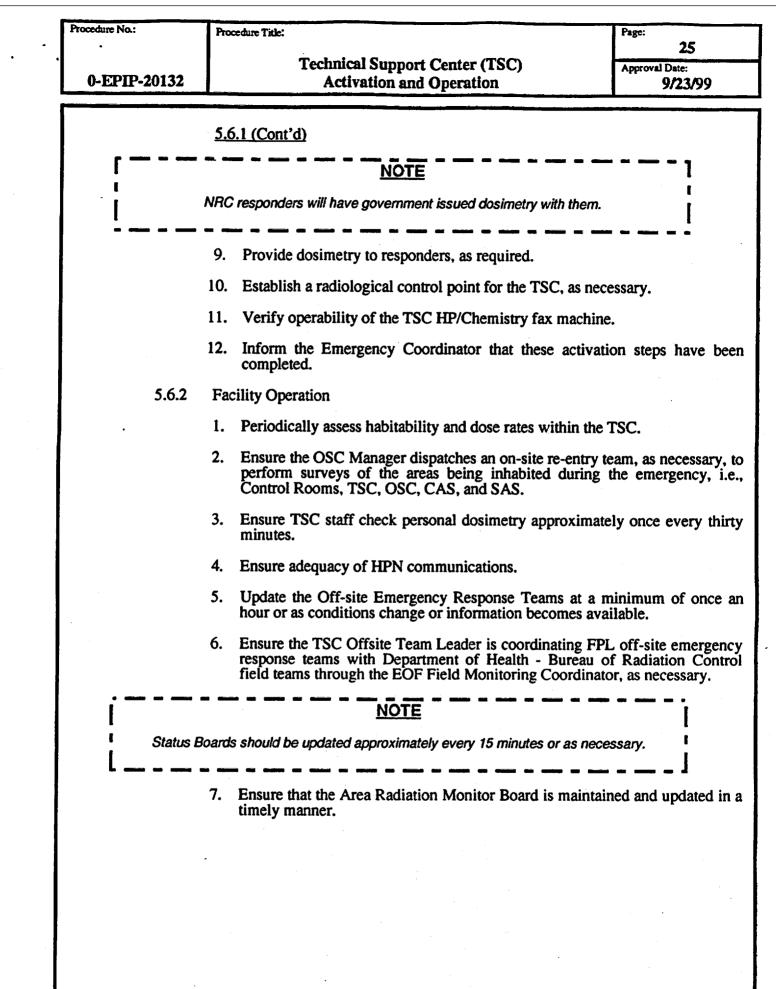
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5.6.1 (Cont'd)

CAUTION

50.54(x) procedure deviations should be discussed between the EC and the NRC staff prior to implementation.

- 8. Document any use of 50.54(x) in accordance with 0-ADM-207, Operations Instructions, in the Event of a Situation Not Addressed by Procedure, and ensure deviations are communicated to the Control Room.
- 9. Maintain a log of activities.
- 5.6 The TSC Health Physics Supervisor should perform the following:
 - 5.6.1 Facility Activation
 - 1. Conduct facility activation as detailed in Subsection 5.1 of this procedure.
 - 2. Verify the operability of the continuous air monitor using 0-HPT-013.3, CALIBRATION AND OPERATION OF THE EBERLINE BETA AIR MONITORING SYSTEM MODEL AMS-3(A).
 - 3. Upon arrival of the TSC HP OSC Communicator, ensure communication is established with the OSC HP Communicator.
 - Upon arrival of the HPN Communicator, ensure communication is 4. established with the NRC, as required.
 - Record transmitted information in the HPN Communicator logbook. **a**.
 - 5. Determine the need for and the availability of the Off-site Emergency Response Teams.
 - 6. Ensure the TSC Off-site Team Leader establishes communications with the Off-site Emergency Response Teams, as needed.
 - 7. Acquire significant meteorological and radiological data for off-site radiological assessment from ERDADS (R3) or the Control Room.
 - 8. Commence updating the Area Radiation Monitor Status Board.



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5.6.2 (Cont'd)

- 8. Update the OSC as conditions change or information becomes available by using the fax machine or telephone.
- 9. Review team requests pertaining to Health Physics activities and forward to the TSC Supervisor.
- 10. Upon notification of a release, or the need to evacuate the site, determine evacuation route as needed.
 - a. Ensure the Assembly Area Supervisor is dispatched to the appropriate assembly area prior to the evacuation order.
- 11. Update the Emergency Coordinator on a periodic basis (approximately every 30 minutes, or as significant changes occur).
- 12. Maintain a log of activities.

5.7 The <u>TSC Chemistry Supervisor</u> should perform the following:

- 5.7.1 Facility Activation
 - 1. Conduct facility activation as detailed in Subsection 5.1 of this procedure.
 - 2. Upon arrival of the TSC Dose Assessment Technician ensure Off-site Dose Calculations are initiated, in accordance with 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS.
 - 3. Acquire significant meteorological and radiological data for accident assessment purposes, using the most accurate and reliable source in accordance with 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS.
 - 4. Upon arrival of the TSC Dose Assessment Recorder, ensure updating of the Dose Assessment and Process Radiation Monitor Status Boards are initiated using ERDADS printout Off-site Dose Radiological Data (R3).
 - 5. Determine status of previous dose assessment activities from the on-shift Chemistry Technician, if applicable.
 - 6. Fax completed dose calculation information to the EOF for use during activation.

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	5.7.1 (Cont'd)	
[·	<u>NOTE</u>	1
	try/HP Group has the capability to monitor Control Room activities of problems encountered and actions being taken.	to ensure
	7. If a Listen Only communication link between the Contro Operations Manager is desired, perform the following:	Room and the TSC
•	NOTE	 I
This commu Supervisor's	inication link can only be established if Extension 6464 on the phone is lit. The handset should not be lifted.	Chemistry
	a. Press the button for Extension 6464.	
	b. Press the Handsfree Mute button for Listen Only ca	pability.
	c. Adjust volume	
	8. Inform the Emergency Coordinator that these activation completed.	on steps have been
5.7.2	Facility Operation	
	1. Ensure off-site dose calculations are performed in 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS, as and in conjunction with the EOF.	n accordance with s conditions change
	2. Acquire and analyze the results of Chemistry sampling da	ita.
	NOTE	
Status Board	ls should be updated approximately every 15 minutes or as necessar	ry. [
	3. Ensure that the Process Radiation Monitor and Dose Boards are maintained and updated in a timely manner.	Assessment Status
	4. Review team requests pertaining to Chemistry activities TSC Supervisor.	and forward to the
		· .

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5.7.2 (Cont'd)

- 5. Provide the Emergency Coordinator with briefings approximately every 30 minutes on dose assessment activities and results, or as significant changes occur.
- 6. Provide applicable data to the Emergency Coordinator for the determination of protective action recommendations based on off-site dose projections approximately every 30 minutes or as necessary.
- 7. Update the 10-Mile EPZ Map in the HP/Chemistry area with the Protective Action Recommendations issued to the public.
- 8. Provide offsite dose calculation information to the TSC Technical Support Group during implementation of SAMG.
- 9. Maintain a log of activities.

5.8 The <u>TSC Dose Assessment Technician</u> should perform the following:

- 5.8.1 Facility Activation
 - 1. Conduct facility activation as detailed in Subsection 5.1 of this procedure.
 - 2. Initiate Off-site Dose Calculations in accordance with 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS.
- 5.8.2 Facility Operation
 - 1. Perform off-site dose calculations in accordance with 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS.
 - 2. Ensure all previous dose calculation paperwork is faxed to the EOF to expedite EOF activation.
 - 3. Provide applicable data to the TSC Chemistry Supervisor for the determination of Protection Action Recommendations.
 - 4. Coordinate dose assessment with the EOF.

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5.9	The <u>TS</u>	C Se	curity Supervisor should perform the following:		
	5.9.1	Facility Activation			
		1.	Conduct facility activation as detailed in Subsection 5.1 c	of this procedure.	
		2.	Determine present status of Security Force activities appropriate sections of a form similar to Attachment 3.	by completing th	
		3.	Commence updating the Security Status Board with security	rity activities.	
		4.	Upon arrival of the TSC Security Officer, ensure access the TSC is controlled, and assistance is given in the r accountability.	s to and egress from maintenance of TS	
		5.	Ensure the Security Officer is present in the OSC following duties:	and performing th	
			a. Referencing 0-EPIP-20133, Operations Support Activation and Operation for outlined responsibilities		
			b. Controlling the protected area and vital area keys.		
			c. Controlling access to and egress from the OSC.		
			d. Initiating the OSC Staff Accountability Log.		
		6.	Ensure accountability within the facility has been maintained, and that a form similar to Attachment 6 has b		
		7.	For Security related, operational issues, coordinate with Manager for the dispatch of a licensed operator to resp Command Post as Security Command Post Operations.	the TSC Operation ond to the Securit	
		8.	Inform the Emergency Coordinator that these activation completed.	on steps have bee	
5.9.2		Fac	ility Operation		
		1.	Implement, and ensure the Security Force has implemented the Emergency Evacuation and Accountability, as necessary.		
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5.9.2 (Cont'd)

- 2. Ensure the TSC Staff Accountability Board is maintained and a form similar to Attachment 6 is completed.
 - a. Upon completion of the TSC Staff Accountability Log (form similar to Attachment 6), complete a Security Accountability Sheet (form similar to Attachment 7) and fax or deliver to the Secondary Alarm Station.
- 3. Ensure the Security Events Status Board is updated in a timely manner.
- 4. Provide an initial accountability report to the Emergency Coordinator within 30 minutes of a Site Evacuation Announcement in accordance with SFI-6307, EMERGENCY EVACUATION AND ACCOUNTABILITY.
- 5. Coordinate security activities with other departments as applicable.
- 6. Provide the Emergency Coordinator with briefings on the status of security activities (i.e., Site Evacuation, accountability results, etc.).
- 7. Provide assistance to local law enforcement agencies, as directed by the EOF Security Manager.
- 8. Recommend to the Emergency Coordinator, when appropriate, the suspension of some or all safeguards. Ensure use of 50.54(x) is coordinated with the TSC Operations Manager.
- 9. Coordinate off-site security assistance through the EOF Emergency Security Manager.
- 10. Maintain a log of activities.
- 5.10 The <u>TSC Licensed Operator</u> should perform the following:
 - 5.10.1 Facility Activation
 - 1. Conduct facility activation as detailed in Subsection 5.1 of this procedure.
 - 5.10.2 Facility Operation
 - 1. Provide operational information and guidance to the TSC Technical Support personnel, and other personnel, as necessary, to effectively coordinate Technical Support activities with Operations and other emergency response personnel.
 - 2. Monitor the status of the unaffected unit and report any operational concerns to the TSC Lead Engineer and the TSC Operations Manager.

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5.11 The TSC Plant Data Status Board Keeper should perform the following:

- 5.11.1 Facility Activation
 - 1. Conduct facility activation as detailed in Subsection 5.1 of this procedure.
 - 2. Begin updating the Plant Data Status Board using the guidelines found in Enclosure 3.
- 5.11.2 **Facility Operation**
 - 1. Maintain the Plant Data Status Board up-to-date using the guidelines found in Enclosure 3.
 - 2. Ensure appropriate emergency classification sign is posted.

5.12 The <u>TSC Plant Data Communicator should perform the following:</u>

- 5.12.1 **Facility Activation**
 - 1. Conduct facility activation as detailed in Subsection 5.1 of this procedure.
 - 2. Establish an open line of communication with the control room.
 - 3. Obtain copies of the Emergency Coordinator Logbook and other applicable information (e.g., Equipment Out of Service Log, events occurring prior to facility activation, etc.) from the control room via fax, LAN, or other means.
 - 4. Provide the Equipment Out of Service information and other pertinent information to the TSC Maintenance Manager for transmittal to the OSC Manager.
 - 5. Update the Sequence of Events Board, including all events and activities that have occurred up to this point, using the guidelines found in Enclosure 3.
- 5.12.2 **Facility Operation**
 - 1. Maintain an open line of communication with the control room.
 - 2. Continue updating the Sequence of Events Board, using the guidelines found in Enclosure 3.
 - 3. Provide clarification of data and/or obtain additional data as requested by the TSC.

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•	0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	Approval Date: 9/23/99
	5.13.1 Emerger state/con Notificat frequent significat Alternate	CENS Communicator should perform the following: Facility Activation NOTES new notification to the NRCOC of a declared event is required inty notifications within one hour. Fons should be made every hour unless updates are agreed upon termination, or as conditions change (PARs, changes to cont changes to plant conditions, etc.). e commercial telephone numbers for the State of Florida and NRC in the Emergency Response Directory (ERD).	d to be less lassifications,
	If the da	n of Release Rate data shall not delay State of Florida and NRC ta is not available, notification shall be made and followed up as on is available.	
	Data for Health P	completion of notification forms is obtained from ERDADS physics/Chemistry Personnel.	printouts and
	 If a trans 	itory event has occurred, notifications are still required using this	procedure.
		1. Conduct facility activation as detailed in Subsection 5.	1 of the procedure
		2. Acquire copies of the NRC Event Notification Work Attachment 2) from the Document Control Files.	sheet (form similar to
		3. Verify the operability of the TSC Operations fax mach	ine.
	í — - — -	<u>NOTE</u>	i
	directly from can be obtain	ons and notifications turnover information does not have to the communicator who is turning over responsibilities. Turnove hed from any available source in order to expedite facility activation hould include time, type and content of notification last made to S NRCOC.	er information on. Minimum
		4. Receive turnover from the Control Room Shift Commu	unicator.
		a. Time of last update	
	-	b. Time requirement for next update	
		c. Fax copies of previous NRC Event Notification	Worksheets.
		~	

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	5.13.2	Facility Operation	
		1. Maintain an open line of communication and a transcessary.	insmission log, as
		2. Ensure notifications are initiated within one hour (imm State and County notification) of a classification /PAI significant event.	nediately following R change or other
		3. Request the TSC Technical Assistant to Emergency on notification times.	Coordinator to log
		4. Log all questions asked by the NRC.	
		5. Obtain answers to questions from appropriate TSC staff m	ember.
		6. Obtain EC approval prior to providing additional information	ion to the NRC.
	5.14 The <u>TS</u>	<u>C State/County Communicator</u> should perform the following:	
	5.14.1	Facility Activation	
	· · ·	NOTE	 I
		ncy notification to the State Warning Point of a declared event is in minutes.	required [
	less fre	p notifications should be made every hour unless updates are agre quent, upon termination, or as conditions change (PARs, cha ttions, significant changes to plant conditions, etc.)	ed to be inges to
		commercial telephone numbers for the state Warning Point are list cy Response Directory (ERD).	ed in the
	h		J
		1. Conduct facility activation as detailed in Subsection 5.1 of	this procedure.
		2. Acquire copies of the Florida Nuclear Plant Emergency No Form (form similar to Attachment 1) from the Document C	otification Control Files.

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directly from can be obtain	a the comm ined from a should inclue e NRCOC. 3. Reco a. b.	NOTE notifications turnover information does not have to be nunicator who is turning over responsibilities. Turnover in any available source in order to expedite facility activation. ude time, type and content of notification last made to Stat eive turnover from the Control Room Shift Communi Time of last update Time requirement for next update	nformation Minimum e Warning
5.14.2	c. Facility (Fax copies of previous Florida Nuclear Plant Emerg Forms Operation	gency Notification
Notification for should not be	e used.	NOTE	
		en notifications to the State Warning Point are requir lar to Attachment 1, as required.	ed, complete a form
	a. b.	Verify data on form is accurate with appropriate TS Obtain Emergency Coordinator approval by having initial the form similar to Attachment 1.	•
·		<u>NOTE</u>	1
0-EPIP-2010 update requir		of the Emergency Coordinator, should be referenced for r	notification
	2. Esta a.	blish communications with the State Warning Point, a Contact the State Warning Point using the telephote telephone (also listed in the Immediate Notifica ERD).	one numbers on the
·			

A FDID 20122 Technical Support Center (TSC) Approval Date:	rocedure No.:	Procedure Title:	Page: 35
 5.15.1 Facility Activation Conduct facility activation as detailed in Subsection 5.1 of this proced Establish the TV monitoring system and verify audio and visual ope using Enclosure 2. Through the TSC Maintenance Manager, inform the OSC Superviso the OSC TV monitors to the appropriate channel for message re (Channel 8). Through the EOF Administrative Supervisor, verify reception transmission at the EOF. 5.15.2 Facility Operation Focus the camera on the TSC sequence of events board. Periodically pan over to the OSC Team Tracking Board. Focus the camera on the Emergency Coordinator during TSC briefings 5.16.1 Facility Activation Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the E their use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 	0-EPIP-20132		
 Conduct facility activation as detailed in Subsection 5.1 of this proced Establish the TV monitoring system and verify audio and visual ope using Enclosure 2. Through the TSC Maintenance Manager, inform the OSC Supervise the OSC TV monitors to the appropriate channel for message re (Channel 8). Through the EOF Administrative Supervisor, verify reception transmission at the EOF. Facility Operation Focus the camera on the TSC sequence of events board. Periodically pan over to the OSC Team Tracking Board. Focus the camera on the Emergency Coordinator during TSC briefings 5.16 The <u>TSC EOF Communicator</u> should perform the following: Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the E their use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 	5.15 The <u>TS</u>	C Site Corporate Communicator should perform the following:	
 Establish the TV monitoring system and verify audio and visual ope using Enclosure 2. Through the TSC Maintenance Manager, inform the OSC Superviso the OSC TV monitors to the appropriate channel for message re (Channel 8). Through the EOF Administrative Supervisor, verify reception transmission at the EOF. Facility Operation Focus the camera on the TSC sequence of events board. Periodically pan over to the OSC Team Tracking Board. Focus the camera on the Emergency Coordinator during TSC briefings 5.16.1 Facility Activation Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the E their use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 	5.15.1	Facility Activation	
 Establish the TV monitoring system and verify audio and visual ope using Enclosure 2. Through the TSC Maintenance Manager, inform the OSC Supervise the OSC TV monitors to the appropriate channel for message re (Channel 8). Through the EOF Administrative Supervisor, verify reception transmission at the EOF. Facility Operation Focus the camera on the TSC sequence of events board. Periodically pan over to the OSC Team Tracking Board. Focus the camera on the Emergency Coordinator during TSC briefings 5.16.1 Facility Activation Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the E their use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 		1. Conduct facility activation as detailed in Subsection 5.1 o	f this procedure.
 the OSC TV monitors to the appropriate channel for message re (Channel 8). 4. Through the EOF Administrative Supervisor, verify reception transmission at the EOF. 5.15.2 Facility Operation Focus the camera on the TSC sequence of events board. Periodically pan over to the OSC Team Tracking Board. Focus the camera on the Emergency Coordinator during TSC briefings 5.16 The <u>TSC EOF Communicator</u> should perform the following: Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed StrankC Notification Forms and other applicable information to the E their use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 		2. Establish the TV monitoring system and verify audio and	-
 5.15.2 Facility Operation Focus the camera on the TSC sequence of events board. Periodically pan over to the OSC Team Tracking Board. Focus the camera on the Emergency Coordinator during TSC briefings 5.16 The <u>TSC EOF Communicator</u> should perform the following: Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed StaNRC Notification Forms and other applicable information to the E their use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 		the OSC TV monitors to the appropriate channel for	C Supervisor to set message reception
 Focus the camera on the TSC sequence of events board. Periodically pan over to the OSC Team Tracking Board. Focus the camera on the Emergency Coordinator during TSC briefings 5.16 The <u>TSC EOF Communicator</u> should perform the following: 5.16.1 Facility Activation Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed Stat NRC Notification Forms and other applicable information to the E their use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 		4. Through the EOF Administrative Supervisor, verify transmission at the EOF.	reception of the
 Periodically pan over to the OSC Team Tracking Board. Focus the camera on the Emergency Coordinator during TSC briefings 5.16 The <u>TSC EOF Communicator</u> should perform the following: 5.16.1 Facility Activation Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the Etheir use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 	5.15.2	Facility Operation	
 Focus the camera on the Emergency Coordinator during TSC briefings 5.16 The <u>TSC EOF Communicator</u> should perform the following: 5.16.1 Facility Activation Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the Extension to the Extension of the their use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 		1. Focus the camera on the TSC sequence of events board.	
 5.16 The <u>TSC EOF Communicator</u> should perform the following: 5.16.1 Facility Activation Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. 3. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the Etheir use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 		2. Periodically pan over to the OSC Team Tracking Board.	
 5.16.1 Facility Activation Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the Etheir use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 		3. Focus the camera on the Emergency Coordinator during T	SC briefings.
 Conduct facility activation as detailed in Subsection 5.1 of the procedu Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the Etheir use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 	5.16 The <u>TS</u>	EOF Communicator should perform the following:	
 Establish communication with the EOF TSC Communicator when the activated. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the Etheir use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 	5.16.1	Facility Activation	
 activated. Fax copies of the Emergency Coordinator Logbook, completed Sta NRC Notification Forms and other applicable information to the E their use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF. 		1. Conduct facility activation as detailed in Subsection 5.1 of	the procedure.
NRC Notification Forms and other applicable information to the E their use upon EOF activation. Acquire State Warning Point and N notification forms and fax to the EOF.		2. Establish communication with the EOF TSC Communicate activated.	or when the EOF is
4. Ensure the EOF has received documentation necessary for facility activ		NRC Notification Forms and other applicable information their use upon EOF activation. Acquire State Warning	ompleted State and on to the EOF for Point and NRCOC
		4. Ensure the EOF has received documentation necessary for	facility activation.
			•

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5.17 The <u>TS</u>	C Lead	ngineer should perform the follo	owing:	
5.17.1	Facilit	Activation	-	
	1. C	nduct facility activation as detai	led in Subsection 5.1	of this procedure.
The TSC T awareness o	echnical of problei	Support Group should monitor C s encountered and actions are bei	ontrol Room activities ng taken.	to ensure
- <u>-</u>	2. Es	ablish a listen only communic ference call with the TSC Operation	cations link with th ations Manager.	e Control Room
	a.	The TSC Operations Manage call.	r should initiate the	three-way conferen
	b.	After the conference call has	been established:	
		(1) Press the Handsfree Mu	te button to initiate s	peakerphone.
		(2) Press the Handsfree Mu	te button for Listen (Only capability.
		(3) Hang up the handset.		
	c.	Adjust volume.		
	3. As con	ign a member of the Te munications with the EOF Eng	echnical Support (incering Staff when the	Group to estable he EOF is activated
. · ·	Sy	on arrival of the TSC Station Anterna Control Center computer in nonsission System Status is mon	ink is established ar	nd Off-site Electri
	5. Up As	n arrival of the TSC Reacters essment computer is operational	or Engineer, ensure	the Core Dama
	• • • •	NOTE		· · · · · · · ·
used to prot	vide mai	made to the OSC for teams from tenance information to the Tech to the Maintenance personnel in t	nical Support Group	ine is to be or provide
· · ·	6. Ens	are the TSC Maintenar munications with the OSC Re-e		Liaison establish

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5.17.1 (Cont'd)

- 7. Designate a member of the TSC Technical Support Group to monitor CETs.
 - a. If CETs are greater than 1200° F and actions to cool the core are not successful, consult with the TSC Operations Manager and the EC on the need to implement SAMG's.
 - b. Upon implementation of SAMG's, assign an individual to update the SAMG status board.
- 8. Assign an individual to commence updating the Technical Staff Task Assignment Board.
 - a. Occasionally update the EOF Engineering Staff via phone or Fax of Task Board Printout.
- 9. Ensure Speed Memos are available to the Technical Staff.
- 10. Inform the Emergency Coordinator that these activation steps have been completed.
- 5.17.2 Facility Operation
 - 1. If there is an indication of actual or potential fuel damage:
 - a. Ensure 0-EPIP-1302, PTN Core Damage Assessment, is being implemented by the TSC Reactor Engineer.
 - b. Consider providing quick estimates by use of the graphs.
 - c. Ensure that core damage assessment results are communicated to:
 - (1) Emergency Coordinator
 - (2) TSC Supervisor
 - (3) TSC Operations Manager
 - (4) TSC Chemistry Supervisor
 - 2. If off-normal high airborne particulates are present in the outside air due to grass fires, dust, etc., perform shift surveillance of the TSC Emergency Ventilation System Filters by reading the associated instrumentation in the TSC Air Conditioning Room, and record required data on Attachment 4.
 - a. If any limits in Attachment 4 are exceeded, notify the TSC Supervisor and develop a corrective action plan.

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5.17.2 (Cont'd)

- 3. Ensure adequacy of Engineering and Technical Support communications.
- 4. Ensure that the Technical Staff Task Assignment Board is kept current. (Tasks assigned to personnel in the Technical Support Group.)
- 5. Review team requests originating from the Technical Staff and forward to the TSC Supervisor.
- 6. Review team requests returning to the Technical Staff and disseminate information requested.
- 7. Ensure Off-site Electrical Distribution System status is monitored and reported, as required.
- 8. When determining release paths, ensure accuracy of determination prior to terminating the release path search.

CAUTION

50.54(x) procedure deviations should be discussed between the EC, TSC Operations Manager and the NRC staff prior to implementation.

> Document any use of 50.54(x) in accordance with 0-ADM-207, OPERATIONS INSTRUCTIONS IN THE EVENT OF A SITUATION NOT 9. ADDRESSED BY PROCEDURE, and ensure deviations are communicated to the Control Room through the TSC Operations Manager.

10. Monitor Technical Staff operation and continued interaction.

NOTE

The Hydrogen Recombiner is required to be installed within 12 days of initiation of a Large Break LOCA or if hydrogen levels are expected to approach 4 percent.

11. If needed, the hydrogen recombiner should be requested as soon as possible.

- а. Refer to the ERD for the telephone number and the contact at Duke Power in order to make arrangements to acquire the Hydrogen Recombiner.
- 12. Communicate results of damage assessments to the Emergency Coordinator in a timely manner.

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	5.17.2 (Cont'd)	
	 Provide Technical Support Group experimentation Maintenance Coordinator. 	rtise to the OSC through the Ta
	14. Maintain a log of activities.	
5.18 The <u>T</u>	SC Tech Support Group should perform the follo	wing:
• • • • • • • •	<u></u>	
Electrical/	ical Support Group consists of the TSC Lead Engin &C Engineer, Reactor Engineer, Engineering/M. Supervisor, Station Area Operations Supervisor, Lice	aintenance Liaison, Fire I
5.18.1	Facility Activation	
•	1. Conduct facility activation as detailed in S	Subsection 5.1 of this procedure.
5.18.2	Facility Operation	
	1. Participate as a member of the Techni technical support in your area of expertise.	ical Support Group by providi
	2. Evaluate system and equipment failures.	
	3. Propose mitigative and corrective actions a	as promptly as possible.
	4. Provide recommendations to the Emergence	cy Coordinator.
	5. Provide a communications path between and the OSC Re-entry Coordinator.	the TSC Technical Support Gro
5.19 The <u>T</u>	C ERDADS Operator should perform the follow	ing:
5.19.1	Facility Activation	
	1. Conduct facility activation as detailed in S	ubsection 5.1 of this procedure.
	2. Verify the operability of ERDADS as follo	ows:
	a. Check that the following displays are	e available:
	(1) Off-site Dose Radiological Da	ta (R3/4)
	(2) Emergency Plan Data (ED3/4)	
	•	

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5.19.1.2.a (Cont'd)

- (3) Environmental Trends (MC3/4 ENV)
- (4) Meteorological Parameter Verification (EP3/4 ENV)
- (5) PTN Status Units 3 & 4 (U3/4)
- b. Check the operability of the color plotter.
- c. Check the operability of the line printer.
- 5.19.2 Facility Operation
 - 1. Provide ERDADS printouts to TSC personnel, as requested.
 - 2. Provide ERDADS Emergency Plan Data (ED3) printouts to TSC Document Control personnel for distribution in a timely manner.

5.20 The <u>TSC Document Control Personnel</u> should perform the following:

- 5.20.1 Facility Activation
 - 1. Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- 5.20.2 Facility Operation
 - 1. Provide assistance to TSC personnel in obtaining controlled procedures, drawings, and documents.
 - 2. Provide assistance to TSC personnel in making copies, routing Speed Memos, forms and information, etc., as required.
 - 3. Distribute ERDADS printouts of plant parameters and data obtained from the TSC ERDADS Operator in a timely manner to the following:
 - a. Emergency Coordinator
 - b. TSC Plant Data Status Board Keeper
 - c. TSC Technical Support Group
 - d. OSC (via fax)

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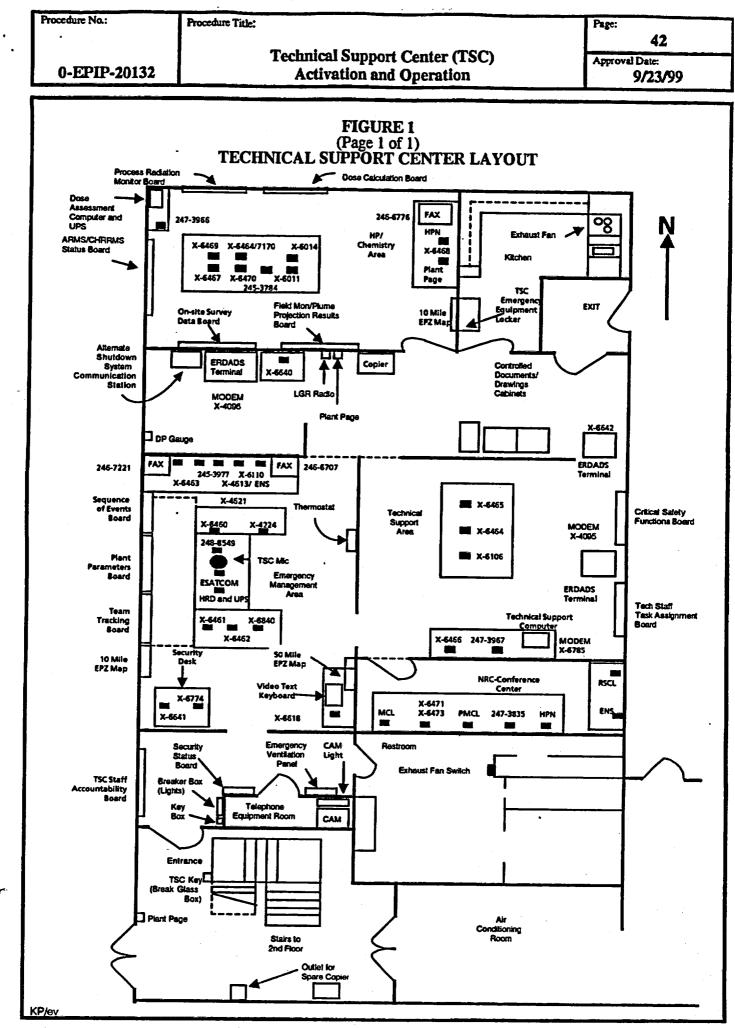
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5.21.1 Facility activation

- 1. Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- 5.21.2 Facility Operation
 - 1. Monitor the fire brigade response
 - 2. Ensure that, as needed, off-site support is responding.
 - 3. Acquire additional equipment/support as needed.
 - 4. Review pre-fire plan of the effected areas and provide input to the emergency coordinator.

END OF TEXT

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	ENCLOSURE 1 (Page 1 of 2)	
	EMERGENCY RESPONSE DATA SYSTEM OPERAT	TION
ر ا	<u>NOTE</u>	1
possible u	of the Emergency Response Data System (ERDS) is require within one hour of the declaration of an Alert or higher emergence DS can be started from any terminal.	
1. ERDS Acti	vation	
	<u>NOTE</u>	
Fo	r ERDS activation, ensure ERDADS Opcon is monitoring the effect	ted unit.
a. Press	<pre><clear> function key.</clear></pre>	
b. Type	the following command if the Opcon is not monitoring the e C>; (where X is the effected unit.)	effected unit: PUP Unit
c. Press	<clear> function key.</clear>	
d. Type	NRC <dsply> on any ERDADS terminal.</dsply>	
e. Page-	up to observe status of NRC link.	
f. If NR comp	C link is off-line, then continue. If NRC link in on-line, lete.	then ERDS activation
g. Type	NRC <dsply> on keyboard.</dsply>	
h. Press	<tab+> function key to position cursor to the activation fie</tab+>	eld.
i. Press	<enter> to start ERDS program.</enter>	
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			ENCLOSURE 1 (Page 2 of 2)	
		E	MERGENCY RESPONSE DATA SYSTEM OPERA	TION
2.	ER	DS Deactiv	vation	
	r -		<u>NOTE</u>	1
		Normally t	the NRC Operations Center will determine when the ERDS lin	ak is terminated
	a.	Press <0	CLEAR> function key.	
-	b.	Insure C	opcon is selected to effected unit.	
	c.	Type NI	RC	
	d.	Press <i< td=""><td>OSPLY> function key.</td><td></td></i<>	OSPLY> function key.	
	e.	Press <1	AB+> function key to position cursor to the deactivation	n field.
	f.	Type 0 i	n the deactivation field.	
	g.	Press <e< td=""><td>NTER> to stop ERDS program.</td><td></td></e<>	NTER> to stop ERDS program.	
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		ENCLOSURE 2 (Page 1 of 2)	· · · · · · · · · · · · · · · · · · ·
		VERIFICATION AND OPERABILITY CHECK FOR THE TV MONITORING SYSTEM	
1 7		<u>NOTE</u>	• •• ••• • • [
	source for ta Nuclear Adr	ency Video Signal is broadcast to the plant site on Channel 8. his channel is a 1/2 inch VCR located in the Video Editing Suite, ninistration Building, Room 1420. The VCR serving Channel 8 is r equipment rack. A label reading Channel 8-VTR-3 identifies the subj	First Floor I nounted in
1. Ve	rify Emerg	ency Video System signal by performing the following:	
a.	Tune an	y hallway monitor to Channel 8.	
		<u>NOTE</u>	· ·· · ·· · · · ·
	The test pat lines.	tern has Studio 40 on the first line followed by the alphabet on s	ucceeding
b.	If the te enclosur	est pattern appears on the monitor, proceed to the TSC and re.	go to Step 2 of this
c.	If some video ec	thing other than the test pattern appears, or if no pattern app liting suite to check the VCR signal.	ears, proceed to the
	(1) T	une monitor labeled RF System Monitor and Charger/edit to	Channel 8.
	(2) M	lake sure Channel 8 VCR is on.	
1 7		<u>NOTE</u>	• •• •• •• •
		Playing a tape in VTR-3 will void TSC signal.	
	(3) St	op any tape that may be playing in the machine.	
	(4) Cl pl	neck cable in rear of VTR-3. Cables with two blue strips ugged to inputs labeled video in and audio in.	s of tape should be
			· · · ·

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ſ			-	ENCLOSUR (Page 2 of 2		<u> </u>
					ABILITY CHECH RING SYSTEM	K
	r —			NOTE		
	I w	ith two blu	carrying TSC signal is le strips of tape. Pho two blue strips of tape	labeled A-130. I one line travels t	o a converter box u	nder edit console I
		(5) If al	test pattern does no l connections are sec	t appear, check ure.	cable at phone line	serving room. Make sure
		(6) If R	no picture appears epresentative.	on Channel 8,	contact the Site C	Corporate Communications
	2. Áfte Supe	er the Eme ervisor, pr	ergency Video System roceed to the Technic	m signal has been al Support Cent	en verified operable er.	e, or if directed by the TSC
	а.	Ensure	power is on to the vic	ieo keyboard.		
	b.	Turn po	wer on to the view m	onitors		
	с.	Position plant pa	the TSC video cam rameters, EC Briefin	era to relay per gs, etc.)	tinent information t	to the OSC and EOF (e.g.,
	d.	Verify t desk.	proadcast signal (i.e.	, what the plant	is seeing) by view	ring Panasonic Monitor on
	e.	To type drawer.	and store video text	t, follow instruc	tions on keyboard	or refer to manual in desk
	f.	To send	video text to plant, p	oress Program (On key.	
	g.	To send	video from camera t	o plant, disenga	ge Program On ke	y.
		(1) If	camera signal does r	not appear on Pa	nasonic monitor, pr	ess Control + X.
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			ENCLOSURE 3 (Page 1 of 1)	
			GUIDELINES FOR MAINTAINING TSC STATUS BOARD	s
1.	Res	sponsib	vilities for maintaining each TSC Status Board are specified in Encl	osure 4.
2.	Ob	tain rec	quired information for the appropriate status board.	
	a.	Util avai	ize ERDADS if the information is available on ERDADS and the lable.	ERDADS display is
		(1)	Plant Data Status Board Keeper uses the Emergency Plan Data (F	EP3) display.
		(2)	Dose Assessment Status Board Keeper uses off-site Radiological	Data (R3) display.
		(3)	TSC Health Physics Supervisor uses Off-site Radiological Data (R3) display.
		(4)	Other status board keepers use ERDADS displays, as necessary.	
	b.	IfE	RDADS is not available:	
		(1)	Verify the TSC Supervisor and TSC ERDADS Operator are awa not available.	are that ERDADS is
		(2)	Collect necessary information using attached status board worksh	neets, if applicable.
3.	All	status	board keepers should ensure that status boards are updated in a time	ely manner.
	a.	All s	status boards, should generally be updated approximately every fift	een minutes.
	ь.	Mor	e frequent updates may be necessary if conditions are changing rap	idly.
	c.	Less	frequent updates may be appropriate if conditions are changing slo	owly or are stable.
	d.	Statu	is boards should always be updated at least every hour.	

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TSC STATUS BOARD MAINTENANCE RESPONSIBILITIES

The following status boards should be maintained by personnel filling the indicated position. Alternate assignments may be made, as necessary. Status Boards should be updated frequently (approximately every 15 minutes OR more frequently than every 15 minutes during significant transient events) and the information on the board should be correct and current.

Status Board Position **TSC Staff Accountability TSC Security Supervisor** Security Events **TSC Security Supervisor** 10-Mile EPZ Technical Assistant to the EC (in Management Area) **Team Tracking TSC Maintenance Manager Plant Equipment** TSC Plant Data Status Board Keeper Sequence of Events **TSC Plant Data Communicator** Area Radiation Monitor **TSC Health Physics Supervisor Process Radiation Monitor** TSC Dose Assessment Recorder **Dose Assessment** TSC Dose Assessment Recorder **Field Team Tracking TSC Off-site Team Leader** Survey Results **TSC HP OSC Communicator** 10-Mile EPZ Map TSC Chemistry Supervisor (in HP/Chem Area) **Critical Safety Functions TSC Lead Engineer Task Assignments TSC Lead Engineer** SAMG Board **TSC Lead Engineer**

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ENCLOSURE 5 (Page 1 of 1)

USE OF SPEED MEMOS

- A. Speed Memos should be used for the following functions:
 - 1. Team requests.
 - 2. Information/task requests.
 - 3. Relaying information.

B. Speed memos should be handled in the following manner:

- 1. The requester should give the speed memo to the lead supervisor in his/her area.
- 2. The requester's lead supervisor should give the speed memo to the TSC Supervisor.
- 3. The TSC Supervisor should present all team request speed memos to the EC for approval and establishment of priority before forwarding to the TSC Maintenance Manager.
- 4. The TSC Supervisor should forward all other speed memos to the responsible manager or lead supervisor of the group who will perform the requested task.

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		ENCLOSURE 6 (Page 1 of 1)							
		CONTROL OF RE-ENTRY TEAMS							
The E	The Emergency Coordinator should control team requests in the TSC as follows:								
1.	1. Actions directed by Emergency or Off-Normal Operating Procedures (EOPs or ONOPs, respectively) which are required to mitigate the effects of an accident or event do not require formal team request approval, because these actions are previously reviewed and approved by the normal procedure approval process.								
	a. Teams docume	assigned to perform tasks in accordance with EOPs or nted and tracked for accountability.	ONOPs should be						
2.		ons such as personnel rescue, fire response or medical emer ress, but should still be controlled as much as possible dependin							
3.	Personnel rec volunteers fan	eiving exposures anticipated being in excess of 10 CFR 2 niliar with the consequences of the radiological exposure.	0 limits should be						
4.	Emergency ex	posures shall be limited to once in a lifetime for any individual							
5.	Females of ch limits.	ildbearing age shall not be permitted to receive exposures in e	xcess of 10 CFR 20						
6.	5. Requests for actions to be performed by re-entry teams such as valve operations, repairs, damage assessments, chemistry samples, radiation monitoring, etc. should be documented in the TSC on the Team Tracking Board and in the logbooks.								
7.	etc., should be	sonnel who may be requested to perform damage assessment e utilized as part of an ERO-qualified team whose members are a provide appropriate radiological monitoring support.	s, QC verifications, e familiar with plant						
8.	Any team req Emergency M	uests should be coordinated through the TSC Supervisor for anagement Staff.	presentation to the						
9.		cy Coordinator, in consultation with the appropriate TSC feasibility and priority of team requests by evaluating the follow							
		or potential hazards to re-entry members (electricity, toxic oxygen levels, etc.).	gases, obstructions,						
	b. Time co	nstraints to perform task.							
	c. The ben	efit of performing the task versus the risk associated.							
	d. Radiolog contami	gical data to determine plant areas actually or potentially affenation.	cted by radiation or						
10.	request a re-	cy Coordinator or designee should authorize the TSC Maint entry team by verbal communication to the OSC Manage y faxing a copy of the Team Tracking Board to the OSC.	enance Manager to r and forward the						

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	A	FTACHME (Page 1 of		
FLORI	DA NUCLEAR PLAN	T EMERG	ENCY NOTIFICATI	ON FORM
	DRILL B. 🗌 THIS IS			
	act made er) trol Room
-	TAL RIVER UNIT 3	-	-	
		C. 🔲 ST LUC	IE UNIT 2 E. 🗌 TURI	(EY POINT UNIT 4
4. ACCIDENT CLAS	SIFICATION A. INOTI	FICAITON OF	UNUSUAL EVENT C.	SITE AREA EMERGENCY
	B. 🗍 ALEF	RT	D. [GENERAL EMERGENCY
5. CURRENT EMERGE	NCY DECLARATION:			
	RGENCY DECLARATION	· IITIL.		
•				
7. ADDITIONAL INFOR	MATION OR UPDATE:			
		· · · · · ·		<u> </u>
····				
8. INJURIES REQUIRIN	NG OFFSITE SUPPORT: A.	∏No ∏Yes	Unknown B. Contaminat	ted: 🗍 No 🗍 Yes 🥅 Unkno
9. WEATHER DATA:	A. Wind direction from B. Downwind Sectors Affe			
			• • • • • • • •	
IU. <u>HELEASE STATUS:</u>	A. I No Release (Go to I B. A Release is occurr			rea, but stoppea
	SIGNIFICANCE CATEGOR	T (at the Site E	oundary	
	ithin normal operating limits	(≤ 2.8 ci/sec n	ble gas, ≤ 3.7 E-4 ci/sec io	dine)
- •	icant Fraction of PAG Range	•	normal limits and < 500 mR	TEDE and 1000 mR CDE)
D. 🗌 PAG Rang	e (≥500 mR TEDE or ≥1000	mR CDE)		
12. UTILITY RECOMM	IENDED PROTECTIVE ACT	TIONS		
		ONES/AREA	S: <u>(Not for FPL Use)</u> A: <u>(Not for FPL Use)</u>	-
0	R C. C MILES NO			SHELTER SECTORS
	0-2		<u> </u>	·
	5-10	·		
	· · · · · · · · · · · · · · · · · · ·			
13. HAS EVENT BEEN	I TERMINATED ?:	A. 🗋 NO	B. 🗋 YES Time	Date
14. SUPPLEMENTA	L FORM IS ATTACHED?:		B. 🗌 YES	
	RM Approval Signature			Date
	EIVED BY: Name			- , -
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					_					
	ATTACHMENT 1 (Page 2 of 3) FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM									
	FLURI			INT EMERGENC			ťĽ	JRM		
	The following suppler	mental data is to be	C				d o	perational at Alert		
	of higher Supplement	to Message Numbe: <u>PLAN</u>	۲_ []	CONDITIONS INFORM	<u>MA</u>	TION				
	CRITICAL SAFETY FU	JNCTIONS	-							
	A. REACTOR SHUTD B. CORE ADEQUATE			Ĺ		YES 🔲 NO YES 🔲 NO				
	C. ADEQUATE EMER	RGENCY POWER AV			Ξ١					
	FISSION PRODUCT B	ARRIER STATUS: (C	he	ck one condition for e	eac			and the second		
	BARRIER	INTACT	Z	CHALLENGED	T	LOST	Į.	REGAINED		
	FUELCLADDING	No indication of clad damage	Π	Clad is intact but losing subcooling, water level,		Clad has failed, indicated by high		Cooling restored, no further degradation		
				. etc.		temps., high containment rad, etc		expected		
		Leakage is within normal charging or makeup pump capacity		Leakage is within safety injection capacity		Leakage exceeds safety injection capacity		Leakage reduced to within injection capacity (system repaired)		
	CONTAINMENT	No evidence of containment leakage or tube rupture release is		No leakage but containment pressure is at or above safety	1	Evidence of containment leakage (known		Repair Efforts have isolated leak or containment		
		only through condenser		system actuation points		release path or rad surveys)		pressure has reduced to stop leakage		
	COMPLETED BY:_	тім	Ε:	C	DAT	re:				
		RADIOLC)G	ICAL DOSE ASSESS	SME	ENT DATA				
	1. RELEASE STATUS	<u>S:</u> A. ☐ No Relea B. ☐ A Release) (no further data requ	irea	d) C. 🗌 A Release	oc	curred, but stopped		
	2. RELEASE RATE:		5 6	3 Occurring						
	A. D NOBLE GASES B. D IODINES:			•		sured Default				
	3. <u>TYPE OF RELEAS</u>		Ea		eas	sureo 🛄 Deiaun				
	A. AIRBORNE:	Time/Date starte		:В. []	LI					
	4. PROJECTED OFFS	••	150	J		Time/Date s	ιομ	ipeu:		
	DISTANCE	THYROID DOSI	EJ	RATE (CDE)		TOTAL DOSE RA	TE	(TEDE)		
	1 Mile (Site Boundary)	Α				Bn				
	2 Miles	C				· · · · · · · · · · · · · · · · · · ·		em/hr		
	5 Miles 10 Miles	E G						em/hr		
ľ	5. WEATHER DATA (n		177 IV		
	A. Wind Direction from	n <u>degrees</u> .		-						
	B. Wind Speed									
	C. Stability Class									
	COMPLETED BY: Emergency Coordinator					DATE:				
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FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM

METEOROLOGICAL WORKSHEET

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARs should be L, M, N and P.

SECTOR INFORMATION:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348-11	S	НЈК
. [B]	NNE	11-33	SSW	JKL
[C]	NE	33-56	SW	KLM
[D]	ENE	56-78	wsw	LMN
[E]	E	78-101	W	MNP
[F]	ESE	101-123	WNW	NPQ
[G]	SE	123-146	NW	PQR
[H]	SSE	146-168	NNW	QRA
[J]	S	168-191	N	RAB
[K]	SSW	191-213	NNE	ABC
(L)	SW	213-236	NE	BCD
[M]	WSW	236-258	ENE	CDE
[N]	W	258-281	E	DEF
[P]	WNW	281-303	ESE	EFG
[Q]	NW	303-326	SE	FGH
[R]	NNW	326-348	SSE	GHJ

STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See 0-EPIP-20126, Off-site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY:

Stability Classification	Pasquill <u>Categories</u>	Primary Delta T (°F)	Backup Sigma Theta <u>Range (Degrees)</u>
Extremely unstable	Α	ΔT ≤ -1.7	ST ≥ 22.5
Moderately unstable	В	-1.7 <ΔT ≤ -1.5	22.5 > ST ≥ 17.5
Slightly unstable	С	-1.5 <ΔT ≤ -1.4	17.5 > ST ≥ 12.5
Neutral	D	-1.4 <∆T ≤ -0.5	12.5 > ST ≥ 7.5
Slightly stable	E	-0.5 <∆T ≤ +1.4	7.5 > ST ≥ 3.8
Moderately stable	F	+1.4 <∆T ≤ +3.6	3.8 > ST ≥ 2.1
Extremely stable	G	+3.6 <∆T	2.1 > ST

Meteorological information needed to fill out the Florida Nuclear Plant Emergency Notification Form is available from the Dose Calculation Worksheet (0-EPIP-20126). The Worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.

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		-	EVENT		(Pa	CHME ge 1 of		EET				
NRC F	ORM 361						US N	IUCLEA			OMMISSION NS CENTER	
NOTIF	ICATION TIME	FACILIT	EVEN I				CALLER'S NAM		ALL BACH	C: ENS_		
EVENT	TIME & ZONE	EVENT				ir Non-En 10 CFR 50	nergency 1.72 (b) (1)			st Offsite	Comms	
POWER	MODE BEFORE	POWER M	ODE AFTER		(i) (B) 1	rs Requir	on		(vi) Ra	oxic Gas ad Releas		
					(ii) (A) (Unanalyza	Condition ed Condition esign Basis		4-	-	mergency 72 (b) (2)	
	Event Classifications					(ii) (B) Outside Design Basis (ii) (C) Not Covered by OPs/EOPs			(I) Degrade While S/D			
GE	NERAL EMER	GENCY			(iii) Earthquake				(II) RPS Actuation (Scram)			
SIT	TE AREA EMER	GENCY			(iii) Flood				(ii) ESF Actuation			
AL	ERT			(iii) Hurricane				(iii) (A) Safe S/D Capability				
UN	USUAL EVENT	<u>ر</u> ا		(iii) ice/Hall					(iii) (B) Rhr Capability			
50.	72 NON-EMER	GENCY		(iii) Lighting					(III) (C) Control of Rad Release			
	YSICAL SECU				(iii) Tornado				(III) (D) Accident Mitigation			
	ANSPORTATIO						ural Phenomenon		(iv) (A) Air Release >2X App B			
	403 MATERIAL	JEXPOSUR	E				charge to RCS			-	ise >2X App B	
	HER			╇┥		Lost ENS		 	(v)	Offsite M		
		- 200				CRIPTI	rg. Assessment		(vi)	Offsite N	otification	
NOTIF	Include: Systems affected, actuations & their initiating signal NOTIFICATIONS YES NO WILL ANYTHING UNUS NRC RESIDENT BE						effect of event on UNDERSTOOD?	Y	tions take ES Explain above		NO	
STATE	(\$)		╡╧╧┥	DID A	LL SYSTEM	S FUNCTION	AS REQUIRED?	T	ES		NO (Explain above)	
LOCAL OTHER AGEN	RGOV				OF OPERA		ESTIMATE FOR RESTART DATE:	II			ADDITION INFO ON BACK?	
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				Tai	chnical Supp	~~ *	C	4 a - 2	TEC				55
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			EVE	NT	NOTIFICA	ГIO	N V	VOR	KSHEET	•			
NRC FO	RM 361				ADDITIONAL IN						USNRC OP	ERATI	IONS CENTER
PAT				E IN		S (00	0.0 H /10	datalla	la velezetiene e				
			US RELEASE		UNPLANNED RELEAS		ecnic		ED RELEASE		De covered		
	TORED	_	NITORED		OFFSITE RELEASE	-	-		CEÉDED		RM ALARMS		REAS EVACUATED
	ONNEL EXPOSE				OFFSITE PROTE	CTIVE	ACTIC			÷			h in description
							-						
			Release R (Ci/sec)		% T.S. LIMIT	Ю	00 GL	лDЕ	Total Activit	ty (Ci) % T.S.	LIMIT	HOO GUIDE
Noble G	ìas					0.	1 Cl/s	iec					1000 CI
lodine						10	μCl/	sec					0.01 Ci
Particul	late					1	μ Ci/s	iec					1 mCl
	(excluding tri ed noble gea					10	μϹͶ	min					0.1Cl
Liquid (tritium)					0.	2 Cl/1	min					5 CI
Total Ac	ctivity												
				~					MAIN STEA	м			
			PLANT STA	CK	K CONDENSER/AIR EJECTOR			LINE SG BLOWDOWN				OTHER	
	ONITOR READ	NGS:											4
	SETPOINTS:												
% T.S. LI	Mit (if applic	capie)											
		CHECKO			ITEMS: (specific de	des lla d	lovelo		a should be see				-1
			, SG #, valve,			101137	expic	nanon		Verec	n eveni des	сприо	
					-• -·•								
LEAK RA	ATE:	UNITS	: gpm/gpd	T.\$	S. Umits:			SUC	den or lon	G TE	RM DEVELO	PMEN	i:
LEAK ST	ART DATE:	1	NME:	C	OOLANT ACTIVIT	Y & U	INITS:	PRIN	MARY -	÷		SEC	ONDARY -
LIST OF	SAFETY RELAT	TED EQUI	PMENT NOT C	PER	ATIONAL:								
				EVE	ENT DESCRIPTION	(Co	ntinu	ed fro	m front)		· · · · · · · · · · · · · · · · · · ·		
		-											
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EMERGENCY PLAN SECURITY CHECKLIST

ITEM	EVENT/ACTION	START TIME	FINISH TIME
1	TYPE OF EVENT	N/A	N/A
A	LOCAL AREA EVACUATION		
В	CONTROL ROOM EVAUATION		
	S/O POSTED AT D840	N/A	
С	UNUSUAL EVENT		N/A
D	ALERT - PATROL DISPATCHED FOR OCA NOTIFICAITON		N/A
	SCHOOL/TRAINING/WELLNESS COMPLEX NOTIFIED	N/A	
	BOAT RAMP SIGNS POSTED/PERSONNEL NOTIFIED	N/A	
	RED BARN/SCOUT CAMP NOTFIED	N/A	
	SWITCHYARD PERSONNEL NOTIFIED	N/A	TIME N/A
	PERSONNEL IN TRAILERS SOUTH OF CRF NOTIFIED	N/A	
	PERSONNEL IN LAYDOWN AREA NORTH OF CRF NOTIFIED	N/A	
	FOSSIL CONTROL ROOM NOTIFIED	N/A	TIME N/A N/A N/A N/A N/A N/A N/A
	OCA NOTIFICAITONS COMPLETE	N/A	
Ε	SITE AREA MERGENCY		N/A
F	GENERAL EMERGENCY		N/A
2	DISPATCH SUPERVISOR AND S/O TO OPEN TSC		N/A
Α	TSC POSTED	N/A	
3	DISPATCH 2 S/Os TO OPEN OSC		N/A
Α	OSC POSTED	. N/A	
4	TSC SECURITY SUPERVISOR POSTED IN TSC	<u>N/A</u>	
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EMERGENCY PLAN SECURITY CHECKLIST

ITEM	EVENT/ACTION	START TIME	FINISH TIME
5	EVACUATION ROUTEPRIMARYALTERNATE	N/A	N/A
A	PRIMARY EVACUATION ROUTE	N/A	N/A
	DISPATCH S/O TO PRIMARY OSAA		N/A
	DISPATCH S/O TO FPL PROPERTY LINE		N/A
	S/O POSTED AT PRIMARY OSAA	N/A	
	S/O POSTED AT FPL PROPERTY LINE	N/A	
	S/O AT PROPERTY LINE RELOCATED TO LLEA CONTROL POINT	N/A	
В	ALTERNATE EVACUATION ROUTE	N/A	N/A
	DISPATCH S/Os TO TOWER GATE AND ALTERNATE OSAA		N/A
	S/O POSTED AT TOWER GATE	N/A	
	S/O POSTED AT ALTERNATE OSAA	N/A	
	S/O POSTED AT CARD SOUND ROAD	N/A	
6	PA ACCESS RESTRICTED TO ERD PERSONNEL		N/A
7	VISITORS DIRECTED TO LEAVE PA		N/A
A	VISITORS ACCOUNTED FOR	N/A	
8	CONTRACTOR PERSONNEL DIRECTED TO LEAVE PA		N/A
A	CONTRACTOR PERSONNEL ACCOUNTED FOR	N/A	
9	PA EVACUATION DIRECTED		N/A
A	ACCOUNTABILITY STARTED		N/A
В	INITIAL ACCOUNTABILITY COMPLETED	N/A	
С	ALL PERSONNEL ACCOUNTED FOR	N/A	
D	RCA SWEEPS STARTED		N/A
E	RCA SWEEPS COMPLETED	N/A	
F	PA SWEEPS STARTED		N/A
G	PA SWEEPS COMPLETED	N/A	

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EMERGENCY PLAN SECURITY CHECKLIST

ITEM	EVENT/ACTION	START TIME	FINISH TIME
10	SAFEGUARDS	N/A	N/A
A	MODIFIED		N/A
В	SUSPENDED		N/A
С	SAS CLOSED	N/A	
D	CAS CLOSED	N/A	
E	N.E.B CLOSED	N/A	
11	EVACUATION OF SECURITY PERSONNEL	N/A	N/A
Α	NON-ESSENTIAL SECURITY EVACUATION STARTED		N/A
В	NON-ESSENTIAL SECURITY EVACUATION COMPLETED	N/A	
12	SECURITY ACCESS BUILDINGS	N/A	N/A
Α	MTG CLOSED	N/A	
В	WTG CLOSED	N/A	
13	SECURITY EQUIPMENT	N/A	N/A
A	WEAPONS SECURED	N/A	
В	KEYS SECURED	N/A	
14	RESTORATION OF SAFEGUARDS BEGUN	· · · · · ·	N/A
15	RESTORATION OF SAFEGUARDS COMPLETE	N/A	
	· · · · · · · · · · · · · · · · · · ·		

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ATTACHMENT 4 (Page 1 of 1)

TSC EMERGENCY VENTILATION SYSTEM PERFORMANCE LOG

DATE	TIME	PREFILTER DPI-6409A (<1.2 in. H ₁ O)	HEPA (DPI-6409B) (<3.0 in. H ₂ O)	CHARCOAL (DPI-6409C) (<3.0 in. H ₂ O)	FINAL (DPI-6409D) (<3.0 in. H ₂ O)	TOTAL (DPI-6409) (<7.0 in. H _s O)
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		-	ATTACHM (Page 1 d					
		•	TSC BRIEFIN	NG FORM				
1.	Health Physic	s Update:						
		•						
		:						
ľ								
2.	Chemistry/Do	se Assessment Up	date:					
	•							
3.	Operations Up	odate:						
4.	Technical Sup	oport Update:						
5.	Security Upda	ite:						
<i>.</i>	occurry opus						• `	

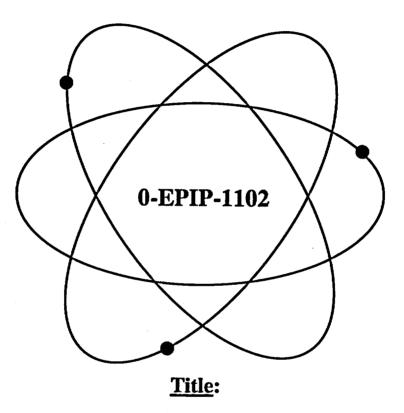
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		STAFF ACCOUNTABILITY LOG	• •
DATE:			
POSITION		NAME	BADGE NO.
Emergency Coordinator			
TSC Chemistry Supervise			
TSC Document Control I			
TSC Document Control I			
TSC Dose Assessment R	ecorder		······································
TSC Dose Assessment Te	echnician	· · · · · · · · · · · · · · · · · · ·	
TSC Electrical/I&C Engi	ncer		
TSC ENS Communicator	•		
TSC EOF Communicator			
TSC ERDADS Operator		·····	
TSC Fire Protection Supe	ervisor		
TSC Health Physics Supe	ervisor		
TSC HPN Communicator	r ·		······
TSC HP/OSC Communic	cator		
TSC Licensed Operator S	Support		
TSC Mechanical Enginee	er		
TSC Maintenance/Eng Li	iaison	· · · · · · · · · · · · · · · · · · ·	
TSC Maintenance Manag	çer		
TSC Off-site Team Leade	er		
TSC Operations Manager	r-		
		· · · · · ·	

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		ATTACHMENT 6 (Page 2 of 2)		
	TS	C STAFF ACCOUNTABILITY LOG		
DATE:				
		NAME	BADGE NO.	
TSC Plant Data Commun		NAME	BADGE NO.	
TSC Plt Data Status Brd				
TSC Reactor Engineer	· · · · · · · · · · · · · · · · · · ·			
TSC Security Supervisor				
TSC Security Officer				
TSC Security Officer				
TSC Site Corporate Com	municator			
TSC Station Area Operation	ions Supervisor		· · · · · · · · · · · · · · · · · · ·	
TSC State/County Comm	unicator			
TSC Supervisor				
TSC Tech Assist to Emer	g Coord			
Miscellaneous Positions/A	Additions			
·····			·	
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KP/ev/ev				

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	- SECU	ATTACH (Page 1 RITY ACCOUN	l of 1)	IEET	
Badge #'s 1-500	Badge #'s 501-1000	Badge #'s 1001-1500	Badge #'s 1501-2000	Badge #'s 2001-2500	Badge #'s 2501-3000
Badge #'s 3001-3500	Badge #'s 3501-4000	Badge #'s 4001-4500	Badge #'s 4501-5000	Badge #'s 5001-5500	Badge #'s 5501-5599
		FINAL	PACE		

Florida Power & Light Company

Turkey Point Nuclear Plant



Duties of the Recovery Manager

Safety Relate	d Procedure
Responsible Department:	Emergency Preparedness
Revision Approval Date:	5/31/00
Periodic Review Due:	9/20/04
Implementation Date:	6/1/00

RTSs 96-0772P, 98-0671, 00-0248P

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1.0 <u>PURPOSE</u>

- 1.1 This procedure identifies the actions of the Recovery Manager (RM) when the Turkey Point Radiological Emergency Plan is implemented.
- 1.2 Individuals designated to function as the RM are identified in the Emergency Response Directory (ERD).

2.0 <u>REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS</u>

2.1 <u>References</u>

2.1.1 <u>Plant Procedures</u>

- 1. 0-EPIP-1212, Emergency Operations Facility (EOF) Activation and Operation
- 2. 0-EPIP-20101, Duties of Emergency Coordinator

2.1.2 <u>Miscellaneous Documents</u> (PC/Ms, Correspondence, Etc.)

- 1. Turkey Point Radiological Emergency Plan
- 2. Turkey Point Emergency Response Directory
- 3. Turkey Point Nuclear Plant Recovery Plan

2.2 <u>Records Required</u>

- 2.2.1 The following information and documentation shall be collected and forwarded to the Emergency Preparedness Coordinator upon termination of an actual emergency for review and archival:
 - 1. Completed EPIPs and Attachments
 - 2. Logs of Emergency Events
 - 3. Florida Nuclear Plant Emergency Notification Forms
 - 4. Other Notes and Data Sheets

2.3 <u>Commitment Documents</u>

2.3.1 None

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3.0	<u>RE</u>	SPONSIE	BILITIES	
	3.1	The Re	covery Manager (RM) shall be responsible for:	
		3.1.1	Ordering activation of the EOF (normally at the Alert).	
		3.1.2	Assuming the responsibilities from the Emergency Coon notifications to off-site agencies and issuance of Recommendations to off-site authorities (state and local) declared operational.	Protective Action
		3.1.3	Managing all activities in the EOF.	
		3.1.4	Periodically updating the EC of EOF activities.	
		3.1.5	Maintaining continuity of technical and administrative supresources for the EC.	pport and material
		3.1.6	Addressing requests for additional support as necessary.	
		3.1.7	Assist in managing logistics support for emergency transportation, communications, temporary quarters, food a facilities in the field, and special equipment and supplies procu	nd water conitory
		3.1.8	Periodically updating the ECO of plant status.	
		3.1.9	De-escalating the emergency as required.	
4.0	DEF	<u>INITION</u>	<u>IS</u>	
	4.1	None		

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0 <u>P</u> l	ROCEDU	RE	
. 5.		arrival at the EOF, determine if adequate personnel are in place nanage off-site communications.	e to determine PARs
	5.1.1	The following is a recommended list of the minimum person operation (Reference Enclosure 1 for alternates):	nnel needed for EOF
		1. Recovery Manager	
		2. RM Operations Advisor	1
		3. Hot Ring Down Communicator	
		4. ERDADS Operator <u>OR</u> TSC Communicator	
		5. Two Dose Assessment Coordinators	
	5.1.2	Individuals assigned for each position are listed in the E Directory (ERD).	mergency Response
	notification	<u>CAUTION</u> ry function of the EOF staffing is to assume responsibility fo is and PARs from the plant. Assume this responsibility as , but not before you are fully prepared to do so.	r making soon as
5.2		t the EC to coordinate the appropriate time for the EOF to ass e and local notification and protective action recommendations	ume responsibilities from the EC in the
	5.2.1	Ensure communicators have received a turnover includinformation of the last update.	ling the time and
	5.2.2	Ensure that Dose Assessment Coordinators are ready to assure responsibilities.	me their duties and
	5.2.3	Establish communications with the EC and prepare for turnor responsibilities:	ver of the following

- 1. Notification to state and local authorities.
- 2. Issuance of Protective Action Recommendations (PARs) to off-site agencies.

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	<u>5.2.3 (C</u>	ont'd)	· · · · · · · · · · · · · · · · · · ·
[— - —	. .	<u>NOTE</u>	1
The TSC v	OC may req will maintain should stay c	uest that a continuous open line of communications be that open line until the EOF is adequately staffed, then b on the line.	maintained. oth the TSC
	3. Not	ifications to the NRC.	
	а.	Initiation of the EOF portion of ENS comr coordinated with the TSC.	nunications shall
	b.	Ensure the HPN bridge has been established, if ap	propriate.
5.3 <u>Contir</u>	nue to staff	EOF positions as necessary.	
a de la compo	-		
Concurrent assuming	ce by the E responsibiliti	NOTE EC is recommended prior to declaring the EOF open es, but is not mandatory.	ational and I
5.4 The R place a	M may dec and an unde	EC is recommended prior to declaring the EOF open es, but is not mandatory.	staffing resources
<i>assuming</i> 	M may dec and an unde	EC is recommended prior to declaring the EOF open es, but is not mandatory.	staffing resources
5.4 The R place a	M may dec and an unde	EC is recommended prior to declaring the EOF open es, but is not mandatory.	staffing resources
5.4 The R place a 5.4.1 Prior to the to the Stat	M may dec M may dec and an unde Log the t arrival of state and Count	EC is recommended prior to declaring the EOF open es, but is not mandatory.	staffing resources
5.4 The R place a 5.4.1 Prior to the to the Stat	M may dec M may dec and an unde Log the t Log the t arrival of state and Count lirect commu	EC is recommended prior to declaring the EOF open- es, but is not mandatory.	staffing resources ed.
5.4 The R place a 5.4.1 Prior to the to the Stat made via d	M may dec M may dec and an unde Log the t M may dec and an unde Log the t M may dec and count inect community The RM to state a	EC is recommended prior to declaring the EOF open- es, but is not mandatory.	staffing resources ed.
5.4 The R place a 5.4.1 Prior to the to the Stat made via d	M may dec M may dec and an unde Log the t Log the t arrival of state and Count lirect commu The RM to state a when cor 1 E	EC is recommended prior to declaring the EOF open- es, but is not mandatory.	staffing resources ed.
5.4 The R place a 5.4.1 Prior to the to the Stat made via d	M may dec M may dec and an unde Log the t Log the t arrival of state and Count lirect commu The RM to state a when cor 1 E 2 E	EC is recommended prior to declaring the EOF openers, but is not mandatory.	staffing resources ed.
5.4 The R place a 5.4.1 Prior to the to the Stat made via d	M may dec M may dec and an unde Log the t Log the t arrival of state arrival of state arriv	EC is recommended prior to declaring the EOF openers, but is not mandatory. clare the EOF operational when there are adequate erstanding of the events in progress has been achieve time the EOF is declared operational. <u>NOTE</u> ate and county representative in the EOF, notifications with the representatives. After their arrival, notifications with the representatives. should announce that he has assumed the responsion of local authorities, and for issuance of PARs, to the theorem of the text of	staffing resources ed.

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Duties of the Recovery Manager

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CAUTION

Close coordination shall be maintained with EC on the potential for changes in emergency classification levels.

5.5 Within 15 minutes of classification of an emergency or changes in PARs, update Attachment 1 and make the appropriate notifications as follows:

CAUTION

RM must be aware of all information included on Attachment 1. Awareness should be indicated by his initials on Attachment 1.

5.5.1 Ensure prompt completion of Attachment 1.

NOTE

If a threshold is anticipated to exceed a PAR, it is not necessary or desired to wait until that threshold is exceeded to make that PAR.

- 5.5.2 Using Attachment 2, review necessity for PARs or changes in PARs and record information on Attachment 3.
- 5.5.3 Record the PARs from Attachment 3 on Attachment 1.
 - 1. Obtain RM Operations Advisor and HP Manager assistance as necessary.
- 5.5.4 Upon completing Attachment 1, indicate approval by initialing the form.
- 5.5.5 If personnel from the state and county agencies are present in the EOF, the RM may use Attachment 3 to conduct the briefing on PARs given by the utility, and Attachment 4 for status of the units.
- 5.5.6 If personnel from the state and counties are not present in the EOF, notification of the new information should be completed via the Hot Ring Down system using Attachment 1.
- Following the notification of the state and counties, but no later than 1 hour, 5.5.7 notify the NRCOC.
- 5.5.8 Update the TSC and EOF staffs of the changes.

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	5.5.9	Within approximately 15 minutes or as soon as practical after PARs to State and Counties, consult with DEM for implemented by Counties.	er notification of ar Protective Action
		 Announce Protective Actions implemented to EOF sta Authorized Representative (GAR) is in EOF, request th Protective Actions implemented. 	aff, or if Governor e GAR to annound
		2. Notify EC of Protective Actions implemented.	
5.6	Provid	e support to EC as necessary.	
	5.6.1	Assure continuity of technical and administrative support and	material resources.
	5.6.2	Request additional support as necessary.	
	5.6.3	Provide for logistics support for emergency personnel, communications, temporary quarters, food and water, sanit field, and special equipment and supplies procurement.	e.g., transportation ary facilities in th
	5.6.4	Discuss long term recovery plans, as necessary, in accordanc Plan.	e with the Recover
5.7	Provide	verbal updates to EOF staff periodically.	
	5.7.1	RM may use Attachment 4 to perform these routine updates (a 30 minutes, or as conditions change) and should update the si significant changes in events including:	approximately ever taff promptly of an
		1. Classification changes.	
		2. Radiological release occurrence or termination (this changes in source term or meteorological data).	includes significan
		3. Loss or restoration of significant equipment and/or sy failure, loss of make-up capability, etc.)	stems (containmen
		4. Protective Action Recommendations and/or Protective Ac	tions implemented.
	5.7.2	The RM should encourage other Managers, and State and Cou to provide additional update information.	nty Representative
	5.7.3	Document significant activities in the RM logbook.	

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5.8 Obtain periodic updates of plant conditions, including the unaffected unit.

Duties of the Recovery Manager

- 5.8.1 Ensure that contact with EC is as frequent as necessary to maintain awareness of plant conditions and actions.
- 5.8.2 Update the State/Counties and NRC approximately every hour or as agreed to by the State/Counties and NRC.
- 5.9 Provide support/resources to EC from vendors, unaffected nuclear plant, or other FPL resources outside the Nuclear Division.
 - 5.9.1 Notify the President Nuclear Division to get authorization to expend funds as necessary above existing purchase orders.
 - 5.9.2 If a situation arises where no company policy is in place to support the actions that will aid in the mitigation of the emergency, establish the necessary policy.
- 5.10 Provide concurrence to the EC for exceeding 10 CFR 20 exposure limits for emergency personnel, if requested from the EC.
 - 5.10.1 Consult Enclosure 2 for information on personnel exposure limits.
- 5.11 Determine the status of the emergency for possible de-escalation.
 - 5.11.1 Use 0-EPIP-20101, DUTIES OF EMERGENCY COORDINATOR, Enclosure 1, Emergency Classification Table, and Enclosure 3, De-escalation Guidelines.
 - 5.11.2 Confer with the RM Operations Advisor to ensure that de-escalation of the emergency classification is appropriate.
 - 5.11.3 Notify the EC when plant conditions support possible de-escalation of the emergency classification.
 - 5.11.4 Order de-escalation to appropriate level after conferring with the State, Counties, NRC and EC.
- 5.12 Go to the Recovery Plan for further guidance and instructions on Post Emergency Reports.
 - 5.12.1 Within 24 hours after termination of an Alert or higher emergency event, prepare an incident report for submittal to DEM and NRC in accordance with the Recovery Plan.

END OF TEXT

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		ENCLOSURE 1		
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	EOF MININ	MUM STAFFING GUIDANCE		
EOF Position		Acceptable Alternate		
Recovery Manager		Designated alternates listed in ERD.		
RM Operations Advis	sor	Any Responder with an active or past operating license, or equivalent (RO, SRO, SRO Certification) at either FPL Nuclear Plant.		
Hot Ring Down Com	municator	Any Responder		
ERDADS Operator computer.		Any Responder with working knowl	edge in ERDADS	
TSC Communicator		Any Responder with Plant technical bac	kground.	
Dose Assessment Coordinator		Any Responder trained in radiol (including the operation of the Dose Ass field team monitoring assessment, etc should obtain radiological information f (TSC or EOF as capable) while th interfaces with the RM on the State (release rates, dose projections and recommendations, as appropriate).	sessment Computer, .) One individual from the best source e other individual Notification Form	

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Duties of the Recovery Manager

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ENCLOSURE 2 (Page 1 of 2)

BASIS FOR EXPOSURE LIMITS FOR EMERGENCY RESPONSE PERSONNEL

Exposure to emergency response personnel should be maintained As Low As Reasonably Achievable (ALARA). Actions taken during an emergency should take into consideration the amount of exposure required to accomplish the task versus the potential benefit to the public health and safety.

Conditions may warrant re-entry into high radiation areas leading to exposure in excess of the regulatory limit. Except for rescue of personnel, (life-saving only), authorization must be given in advance by the Emergency Coordinator (EC) in consultation with the TSC HP Supervisor (or alternates). If time permits the EC should obtain concurrence from the Recovery Manager if the EOF is operational. In any case where regulatory limits have been exceeded the EC shall notify the RM of the event.

For those remote circumstances involving an event in progress and obtaining EC approval will result in leaving the accident scene or decrease the victim(s) chance of survival, lifesaving actions may be performed without obtaining EC approval. The EC shall be notified immediately following the rescue operation.

Re-entry personnel that have been selected/chosen to exceed regulatory exposure limits should be volunteers(4), broadly familiar with the risks involved (radiosensitivity of fetuses, effects of acute exposures, etc.), whose normal duties have trained them for such missions.

Declared pregnant persons should not be used as on-site emergency workers.

Since, by their very nature, emergency exposures requiring immediate action are not planned, they are not controlled as a Planned Special Exposure. Dose received from exposure under emergency conditions will be added to the dose received during the current year, prior to the emergency, to determine compliance with the occupational dose limits in 10 CFR 20.

Doses above regulatory limits will require reporting pursuant to 10 CFR 20.2202 and 20.2203. Any dose in excess of the annual limits specified in Section 20.1201(a) will be accounted for in accordance with 10 CFR 20.1206(e). If an individual exceeds any of these limits, then that individual will not be available for additional dose under 20.1201(a).

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ENCLOSURE 2 (Page 2 of 2)

BASIS FOR EXPOSURE LIMITS FOR EMERGENCY RESPONSE PERSONNEL

For	the following missions, the exposure limit is(1).	Total Dose(2) (TEDE)	THYROID(3) (CDE)		
miti	formance of actions that would not directly igate the event, minimize escalation, or imize effluent releases.	5 REM	50 REM		
esca a <u>no</u>	formance of actions that mitigate the alation of the event, rescue persons from <u>m-life</u> threatening situation, minimize osures or minimize effluent releases.	10 REM	100 REM		
of the end	formance of actions that decrease the severity the event or terminate the processes causing event in an attempt to control effluent releases void extensive exposure of large populations. b, rescue of persons from a <u>life-threatening</u> atton.	25 REM	250 REM		
Reso (Vo	cue of persons from a life-threatening situation. lunteers(4) should be above the age of 45.)	(5)	(5)		
	NOTES		·		
	Both Total Dose (TEDE) and Thyroid Dose (CL controlling exposure.	DE) should be used for purp	poses of		
	Protective clothing, including respirators should be	e used where appropriate.	I		
(1)	Exposure limits to the lens of the eye are 3 times the	Total Dose (TEDE) value	s listed.		
(2)	Total Dose (TEDE) is the total whole body exposur sources - Total Effective Dose equivalent.	e from both external and i	nternal (weighted)		
(3)	Thyroid Dose (CDE) commitment from internal sources - Committed Dose Equivalent. The same dose limits also apply to other organs (CDE), skin (Shallow Dose Equivalent) and extremities (Extremity Dose Equivalent).				
(4)	Volunteers with full awareness of risks involved including numerical levels of dose at which acute effects of radiation will be incurred and numerical estimates of the risk of delayed effects.				
(5)	No upper limit for Total Dose (TEDE) and/or established because it is not possible to pre-judge th take to save the life of another. Also, no specific lin extreme case, complete thyroid loss might be an should not be necessary if respirators and/or thyroid as the result of adequate planning.	e risks that one person sho nit is given for thyroid exp acceptable sacrifice for a	ould be allowed to osure since in the		

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			IMENT 1 1 of 3)		
FLOR	IDA NUCLI	EAR PLANT EMH	ERGENCY NOTIFIC	ATION	FORM
1. A. 🗌 THIS IS A I 2. A. Time/Date cont	DRILL B. act made		FUAL EVENT B. Reported by: (Name/	Title)	
3. <u>SITE</u> A. CRIS	oer STAL RIVER UI	NIT 3 B. 🗍 ST	D. Reported from:	Control Re URKEY P	
4. ACCIDENT CLAS	SIFICATION		N OF UNUSUAL EVENT O		AREA EMERGEN
		B. 🗋 ALERT	D		IERAL EMERGENO
5. <u>CURRENT EMERGE</u> 6. <u>REASON FOR EMER</u>	NCY DECLAR RGENCY DECL	ATION: TIME: LARATION	DATE		
					·····
7. ADDITIONAL INFOR	MATION OR H				
7. ADDITIONAL INFOR					
8. INJURIES REQUIRIN	IG OFFSITE SI A. Wind direc	UPPORT: A. DNo D	Yes Unknown B. Contan		No 🛛 Yes 🗍 Unkn
8. <u>INJURIES REQUIRIN</u> 9. WEATHER DATA:	A. Wind direc B. Downwind A. [] No Rel	UPPORT: A. DNo C tion fromc	Yes Unknown B. Contan	.1	
 8. <u>INJURIES REQUIRIN</u> 9. WEATHER DATA: 10. <u>RELEASE STATUS:</u> 11. <u>OFFSITE RELEASE SERVICE</u> 11. <u>OFFSITE RELEASE SERVICE</u> 11. <u>OFFSITE RELEASE SERVICE</u> 	A. Wind direc B. Downwind A. Downwind B. A. No Rel B. A Rele SIGNIFICANCE not available a thin normal ope	UPPORT: A. □No □ ction fromc Sectors Affected (minin lease (Go to Item 12) ease is occurring <u>ECATEGORY (at the S</u> at this time erating limits (≤ 2.8 ci/se	Yes ☐Unknown B. Contan legrees. mum of 3):,, C. ☐ A Release o <u>ite Boundary)</u> ec noble gas, ≤ 3.7 E-4 ci/se	, ccurred, bu c iodine)	it stopped
 8. <u>INJURIES REQUIRIN</u> 9. WEATHER DATA: 10. <u>RELEASE STATUS:</u> 11. <u>OFFSITE RELEASE S</u> A. Information B. Release wi C. Non-Signifi 	A. Wind direc B. Downwind A. Downwind A. A Rele B. A Rele SIGNIFICANCE not available a thin normal ope cant Fraction of	UPPORT: A. □No □ ction fromc Sectors Affected (minin lease (Go to Item 12) ease is occurring <u>ECATEGORY (at the S</u> at this time erating limits (≤ 2.8 ci/se	Yes ☐Unknown B. Contan legrees. mum of 3):,,, C. ☐ A Release o <u>ite Boundary)</u> ec noble gas, ≤ 3.7 E-4 ci/set s > normal limits and < 500	, ccurred, bu c iodine)	it stopped
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The following supp	SUPPI plemental data is to be ent to Message Numbe <u>PLAN</u> <u>FUNCTIONS</u>	LEMENTAL DATA completed <u>after</u> the 1 r CONDITIONS INFOR	Y NOTIFICATION SHEET ISC or EOF is declared MATION	··· -
B. CORE ADEQUA C. ADEQUATE EMI FISSION PRODUCT		AILABLE (DIESELS)		
BARRIER	VINTACT		LOST	REGAINED
	No indication of clad damage	Clad is intact but losing subcooling, water level, etc.	Clad has failed, indicated by high temps., high containment rad, etc	Cooling restored, no further degradation expected
PRI. REACTOR COOLANT SYSTEM	Leakage is within normal charging or makeup pump capacity	Leakage is within safety injection capacity	injection capacity	to within injection capacity (system repaired)
CONTAINMENT	No evidence of containment leakage or tube rupture release is only through condenser	No leakage but containment pressure is at or above safety system actuation points	Evidence of containment leakage (known release path or rad surveys)	Repair Efforts have isolated leak or containment pressure has reduced to stop leakage
COMPLETED BY	Y:TIM	E:(DATE:	
1. <u>RELEASE STATI</u> 2. <u>RELEASE RATE</u>	US: A. D No Relea B. A Release	e is occurring	SMENT DATA Jired) C. 🗌 A Release	occurred, but stopped
A. Indext Noble Gasi B. Iodines: B. Type of Relea A. AIRBORNE:	ASE: Time/Date starte	es per second 🔲 M	easured Default easured Default LIQUID Time/Date st	
4. PROJECTED OF	FSITE DOSE RATE:	ed:	Time/Date st	opped:
DISTANCE Mile (Site Boundary Miles		mrem/hr	TOTAL DOSE RAT Bm	irem/hr
5 Miles	C E	mrem/hr		rem/hr
A. Wind Direction fro B. Wind Speed C. Stability Class	MPH	<u>ta):</u>		irem/hr
COMPLETED BY: Emergency Coordinat F-439:2/3 W97:JWB/ev	tor or Recovery Manage	TIME: or Approval	DATE:	

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0-EPIP-1102

Duties of the Recovery Manager

ATTACHMENT 1 (Page 3 of 3)

FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM

METEOROLOGICAL WORKSHEET

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARs should be L, M, N and P.

SECTOR INFORMATION:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348-11	S	ЫК
[B]	NNE	11-33	SSW	JKL
[C]	NE	33-56	SW	KLM
[D]	ENE	56-78	WSW	LMN
(E)	E	78-101	w	MNP
(F)	ESE	101-123	WNW	NPQ
[G]	SE	123-146	NW	PQR
[H]	SSE	146-168	NNW	QRA
[J]	S	168-191	N	RAB
[K]	SSW	191-213	NNE	ABC
[L]	SW	213-236	NE	BCD
[M]	WSW	236-258	ENE	CDE
[N]	W	258-281	E	DEF
[P]	WNW	281-303	ESE	EFG
[Q]	NW	303-326	SE	FGH
[R]	NNW	326-348	SSE	GHJ

STABILITY CLASSIFICATION REFERENCE:

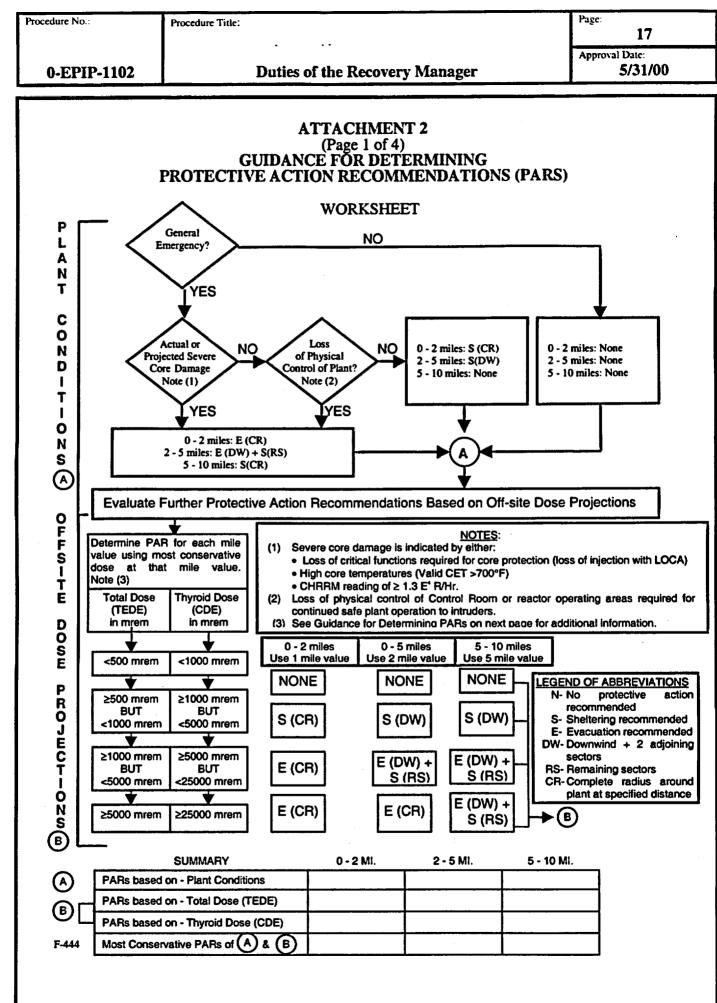
The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See 0-EPIP-20126, Off-site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY:

Stability <u>Classification</u>	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta <u>Range (Degrees)</u>
Extremely unstable	Α	ΔT ≤ -1.7	ST ≥ 22.5
Moderately unstable	В	-1.7 <∆T ≤ -1.5	22.5 > ST ≥ 17.5
Slightly unstable	С	-1.5 <∆T ≤ -1.4	17.5 > ST ≥ 12.5
Neutral	D	-1.4 <ΔT ≤ -0.5	12.5 > ST ≥ 7.5
Slightly stable	E	-0.5 <ΔT ≤ +1.4	7.5 > ST ≥ 3.8
Moderately stable	F	+1.4 <ΔT ≤ +3.6	3.8 > ST ≥ 2.1
Extremely stable	G	+3.6 <ΔT	2.1 > ST

Meteorological information needed to fill out the Florida Nuclear Plant Emergency Notification Form is available from the Dose Calculation Worksheet (0-EPIP-20126). The Worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.

F-439:3/3



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ATTACHMENT 2 (Page 2 of 4)

GUIDANCE FOR DETERMINING PROTECTIVE ACTION RECOMMENDATIONS (PARS)

FPL is required to provide county and state governmental authorities with recommendations for protective action to be taken by the public during radiological emergencies at the Turkey Point Nuclear Plant. The responsible authorities are the State Division of Emergency Management (DEM), Miami-Dade County Office of Emergency Management and Monroe County Office of Emergency Management.

Protective Action Recommendations (PARs) should be made utilizing all of the available data. This includes plant status, off-site dose projections and/or field monitoring data. The more conservative recommendations should be made.

Beginning at the top left side, answer the General Emergency question. If yes, continue on, following the arrows, and answering the other question blocks. Record the PARs based on Plant Condition (A) in the Summary Block at the bottom of the page. From the PAR based on Plant Condition's block continue following arrow to next box, and determine PARs based on Off-site Dose Projections (B) Total Dose (TEDE) and Thyroid Dose (CDE). In determining PARs, both plant conditions AND off-site doses must be considered for all PARs. If a release has not occurred, then proceed with issuance of PARs from the plant condition determination.

To determine PARS from off-site doses, find the blocks that correspond with the Total Dose (TEDE) and Thyroid Dose (CDE) at 1, 2 and 5 miles from the Dose Calculation Worksheet (0-EPIP-20126). Follow across to the column that indicates the distance where that dose was found i.e., first block for 1 mile, second block for 2 miles, or third block for 5 miles. (B) Record the PARs based on Off-site Doses in the Summary Block. Once PARs are determined for all mile sectors for both Total Dose (TEDE) and Thyroid Dose (CDE) (B), then a comparison with the Plant Condition PARs (A) is performed, and the most conservative PARs for each mile sector is selected for issuance to off-site agencies.

The following example is provided:

EXAMPLE

A release has occurred at the Turkey Point Plant. The wind direction is from the SSE and the projected off-site accumulated Thyroid Dose (CDE) is 5,000 mrem at 1 mile, 1,000 mrem at 2 miles, and less than 1,000 mrem at 5 miles. The plant is in a General Emergency with CHRRM at 100 R/hr, no core damage indicators, and no loss of physical control of the plant.

W97;JWB/ev

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0-EPIP-1102

Duties of the Recovery Manager

ATTACHMENT 2 (Page 3 of 4)

GUIDANCE FOR DETERMINING PROTECTIVE ACTION RECOMMENDATIONS (PARS)

Using the PAR Worksheet, the following recommendations should be made:

Based on our current assessment of all the information now available to use, Florida Power & Light Company recommends that you consider taking the following protective actions.

- A. EVACUATE all people between 0 and 2 miles from the plant.
- B. SHELTER all people between a 2 and 5 mile radius form the plant who are in Sectors Q, R and A (refer to Attachment 1).
- C. No protective actions is recommended between a 5 and 10 mile radius from the plant.

Due to the large political and legal ramifications of these recommendations and the potential impact on FPL, the following guidelines, format and content should be used.

(1) If the emergency has not been classified as a GENERAL EMERGENCY and the off-site doses are LESS THAN 500 mrem Total Dose (TEDE) or < 1,000 mrem Thyroid Dose (CDE) at 1 mile over the projected duration of the release, no protective action is recommended. When reporting to DEM and other off-site agencies who inquire, this should be reported in a manner similar to the following:

Based on our current assessment of all the information now available to us, Florida Power & Light Company recommends that you consider taking the following protective actions - NONE. This recommendation may change in the future, but we cannot now say when it may change or what the change may be.

(2) When available, both plume calculation and off-site monitoring results should be evaluated when making protective action recommendations. If significant discrepancies exist between field monitoring results and plume dispersion calculations, then the discrepancy should be reviewed, and the appropriate value should be selected in the determination of protective action recommendations.

W97;JWB/ev

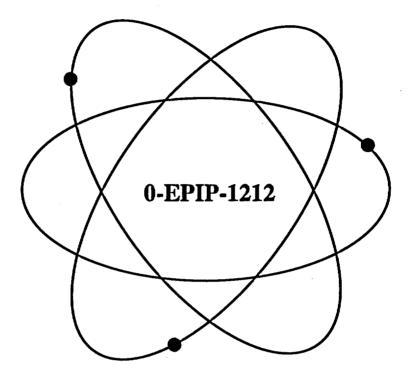
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	GUIDANCE FOR DETERMINING PROTECTIVE ACTION RECOMMENDATIONS (PARS)						
(3)	Thyroid Dose with EPA Gui	(CDE) Limits for PARs are based on adult thyroid. The delines based on the following criteria:	se limits are consistent				
	a. uncertai	nty and potential errors associated with age specific paramet	ers, and				
	b. level of	conservatism in the adult values.					
(4)	Coordinator b	ical control of the plant to intruders shall be determine based on the current operating mode requirements of the equipment required for continued safe operation.	ed by the Emergency ne unit/plant, and the				

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	PROTE	CTIVE ACTION RECO AND DIS	OMMENDAT	IONS (PAR) TEMS	WORKS	HEET		
1.	Date/Time	/						
2.	Emergency C	lassification: (circle)	NOUE	ALER	T	SAE	GE	
3.	PAR Formula							
	Distance	a. PAR based on PLANT CONDITIONS (Ops Advisor/Tech Assist)	b. PAR TOTAL DO (HP Mngr/I	SE (TEDE)	THYRO	AR based of ID DOSE (ngr/Dose Co	CDE)	
	0 - 2 Miles							
	2 - 5 Miles 5 - 10 Miles							
	Wind, RS = I Signatures:	n: E = Evacuate, S = Sh Remaining Sectors) RM OPS Advisor/Tech		HP Mar	ager/Dose	Assessment		
4.	Consideration	s: (check as applicable)		Y	es	No		
	a. Were Fi	eld Monitoring results use	d for projection	ons?			_	
	b. Was the	ere State and County coord	lination?				-	
5.	PARs to Issue	(Recovery Manager):						
	Distance		Most conservative PAR from Step 3, above		Selected PAR for Iss (IF different from MOST co THEN explain below		conservative	
	0 - 2 Miles							
	2 - 5 Miles 5 - 10 Mile							
6.		or deviation from Most co	nservative PA	R:			1	
7.	Approved:	Recovery Manager						
		Recovery Manager						
8.	Implemented	State/County Protective A	ctions, (enter	Sector/Zones)				
		e Sector/zone						
		Sector/zone						
I	None Se	ctor/zone						

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	RECOVERY M	ANAGER UPDATE WOI	RKSHEET	
Emergency Classifica	tion (circle one):		Date/Time:	//
Unusual Event	t Alert	Site Area Emergency	General E	Imergency
Plant Status:				
Unit 3				
<u>Unit 4</u>	~ *.			
Current Efforts at the S				
KEIEASE I	in Progress:			
Injured F	Personnel:			
Contami	nated Personnel:			
Other Information / Br	riefing to be provide	<u>d by:</u>		
Health P	hysics Representativ	<u>'e:</u>		
Engineer	ring Representative:			
Security	Representative:			
State Rep	presentative:			
County F	Representative:			
County F	Representative:			
		FINAL PAGE		

Florida Power & Light Company

Turkey Point Nuclear Plant



<u>Title</u>:

Emergency Operations Facility (EOF) Activation and Operation

Safety Related Procedure						
Responsible Department:	Emergency Preparedness					
Revision Approval Date:	5/31/00					
Periodic Review Due:	9/20/04					
Implementation Date: 6/1/00						

RTSs 96-0772P, 96-1431, 98-0670, 00-0248P

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0-EPIP-1212

Emergency Operations Facility (EOF) Activation and Operation

Approval Date: 5/31/00

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1.0 PURPOSE

- 1.1 This procedure identifies the steps involved for activation and operation of the Turkey Point Emergency Operations Facility (EOF).
- 1.2 Individuals specifically designated to perform assignments identified in this procedure are listed in the Turkey Point Emergency Response Directory (ERD).

2.0 <u>REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS</u>

2.1 <u>References</u>

- 2.1.1 Final Safety Analysis Report (FSAR)
 - 1. Section 12
- 2.1.2 Plant Drawings
 - 1. Turkey Point Units 3 and 4 as-built drawings
- 2.1.3 Procedures
 - 1. 0-EPIP-1102, Duties of the Recovery Manager
 - 2. 0-EPIP-1211, Duties of the Corporate Communications Emergency Response Organization
 - 3. 0-EPIP-1302, PTN Core Damage Assessment
 - 4. 0-EPIP-20126, Off-Site Dose Calculations

2.1.4 <u>Regulatory Guidelines</u>

- 1. 10 CFR 26, Fitness for Duty
- 2.1.5 <u>Miscellaneous Documents</u>
 - 1. Turkey Point Radiological Emergency Plan
 - 2. Turkey Point Nuclear Plant Recovery Plan
 - 3. Turkey Point Plant Physical Security Plan
 - 4. Turkey Point Safeguards Contingency Plan
 - 5. Nuclear Division Policy, NP-400
 - 6. Turkey Point Emergency Response Directory (ERD)
 - 7. Meteorology and Atomic Energy 1968

7 Approval Date: 9/21/99

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Records Required 2.2

Collect the following material and forward to the Emergency Preparedness 2.2.1 Coordinator for review and/or archival:

- 1. All attachments to this procedure or similar forms, worksheets, or reports.
- 2. Logs of emergency events and actions.

2.3 **Commitment Documents**

- QAS-EMP 90-1, Finding 4, April 6, 1990 2.3.1
- 2.3.2 QAS-EMP 89-3, Finding 4, February 27, 1990
- NRC IR 92-12; EW 92-12-02, May 6, 1992 2.3.3

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0-	EPIP	-1212	Emergency Operations Facility (EOF) Activation and Operation	8 Approval Date: 9/21/99	
3.0 <u>RESPONSII</u>		SPONSIE	BILITIES		
	3.1	The Re	covery Manager is responsible for:		
	3.1.1		Activating the EOF in accordance with 0-EPIP-1102, RECOVERY MANAGER.	DUTIES OF THE	
		3.1.2	Declaring the EOF operational in accordance with 0-EPIP- THE RECOVERY MANAGER	1102, DUTIES OF	
	3.2	The Em	ergency Security Manager (ESM) is responsible for:		
		3.2.1	Access and security of the EOF and ENC.		
		3.2.2	Assuring all requirements of 10 CFR Part 26, Fitness for Dup persons reporting for duty in pre-assigned EOF positions.	ty rules, are met by	
		3.2.3	Maintaining liaison with law enforcement agencies.		
		3.2.4	Coordinating with on-site security personnel to assist in security fu required.		
		3.2.5 Assuring prompt access to the TSC/EOF is granted for NRC respo		sponders.	
		3.2.6	Tracking the status of injured site personnel transported transported transported transported to facilities.	to off-site medical	
		3.2.7	Providing advice to the Recovery Manager in relation to secur plant emergency.	ity matters during a	
	3.3	The EO	F Supervisor is responsible for:		
		3.3.1	Coordinating and verifying facility operational readiness.		
		3.3.2	Ensuring accountability within the EOF is maintained.		
		3.3.3	Ensuring adequate operational and technical support for the RM	1.	
		3.3.4	Overseeing communication to the State, counties and NRC to e are performed in the required times.	ensure notifications	
	3.3.5 3.3.6		Ensuring plant data is provided to the facility personnel via boards, communicators or TV monitors.	a ERDADS, status	
			Providing direction to the EOF Administrative Supervisor for staff.	support to the EOF	
	3.3.7		Ensuring equipment is available and functional to support the e	vent.	

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3.4	The RM				
	3.4.1	4.1 Supporting the RM in the development of Protective Action Recommendation			
	3.4.2	I.2 Following plant status by means of EOF TSC Communicator, TV system, or o source.			
	3.4.3	Ensuring facility awareness of current EAL.			
	3.4.4	Routinely reviewing EOPs as necessary.			
	3.4.5	Assisting the RM with preparation and conduct of briefings.			
·	3.4.6	Acting as a relief to the RM when the RM exits the area.			
	3.4.7 Maintaining the RM logbook.				
3.5	3.5 The Technical Assistant to the RM is responsible for:				
	3.5.1	Determining present and potential Emergency Action Level St	atus.		
	3.5.2	Updating the 10-mile EPZ map with the Protective Actions iss	ued.		
	3.5.3	.5.3 Assisting the HRD Communicator with the completion of the state no forms as necessary.			
	3.5.4	Assisting the RM with preparation and conduct of briefings.			
	3.5.5	Acting as a relief to the RM when the RM exits the area.			
	3.5.6	Maintaining a log of activities.			
3.6	The Ad	ministrative Supervisor is responsible for:			
	3.6.1	Providing administrative support such as faxing, photocopying	, distributions, etc.		
	3.6.2	Ensuring operability of EOF equipment.			
	3.6.3	Ensuring adequate measures are in place to meet personnel r water, etc. both at the EOF and at the plant.	needs such as food,		
	3.6.4	Arranging hotel reservations and car rentals for incoming perso	onnel, as necessary.		
	3.6.5	Ensuring minutes of formal briefings are taken to record pe discussed.	ertinent information		

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3.7	The He	alth Physics Manager (HPM) / Dose Assessment Coordinator is	responsible for:		
	3.7.1	Ensuring Dose Assessment functions are being performed.			
	3.7.2 Providing radiological data to the RM and assist with briefings		s, as necessary.		
	3.7.3 Ensuring Field Teams are tracked and coordinated between Health – Bureau of Radiation Control.		the Department of		
	3.7.4	Providing radiological information to support the Emergency I	News Center.		
	3.7.5	Ensuring communications with the NRC via the HPN are adeq	uate.		
	3.7.6	Ensuring radiological data is posted on the boards.			
	3.7.7	Maintaining contact and comparing Dose Assessment results v	vith the TSC.		
3.8	The Em	ergency Technical Manager (ETM) is responsible for:			
	3.8.1	Supporting the TSC in problem solving based on engineering construction details.	design and as-built		
	3.8.2	Performing core damage assessments and providing result Manager.	s to the Recovery		
• •	3.8.3	Maintaining communications with the TSC.			
3.9	The Em	ergency Control Officer (ECO) is responsible for:			
	3.9.1	Maintaining awareness of plant conditions, media interest, and	news releases.		
	3.9.2	Ensuring support is available for offsite agencies and Corporate	e Communications.		
	3.9.3	Performing a technical spokesperson function.			
	3.9.4	Approving press releases.			
3.10	The Nuc	lear Division Duty Officer (NDDO) is responsible for:			
	3.10.1	Remaining available via either telephone or pager contact period.	for the entire duty		
	3.10.2	Functioning as the ECO until a designated ECO is obtained an has been given.	d a proper turnover		
	3.10.3	Serving as technical advisor and INPO interface.			
DEF	INITION	<u>15</u>			
4.1	None.				

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	*		Procedure		Page: 11	
 NOTE To assure timely activation, EOF responders shall be ready to assume their duties as soon as practical upon entering the EOF. 5.1 The First Emergency Responders to the EOF should perform the following: 5.1.1 For Activation: Upon arrival at the EOF, unlock the double entrance doors to the facility use of Corporate ID or assistance from General Office (G.O.) Securi Operations personnel. The doors should then be blocked open to allo access to responders arriving thereafter. Turn lights on to the facility using the light switches located on the left wall Sign in on the EOF Access Log (or a form similar to Attachment 6) at indicate FFD Status. Sign in on the EOF Staff Accountability Board. Report to your work area and proceed with any additional activation ster outlined in this procedure applicable to your emergency response position. Consult Figures 1 and 2 for directions to and layout of the EOF, necessary. The Turkey Point EOF is on the fifth floor of the General Office 	0-EPIP-1212			Emergency Operations Facility (EOF) Activation and Operation		
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 outlined in this procedure applicable to your emergency response position. a. Consult Figures 1 and 2 for directions to and layout of the EOF, necessary. b. The Turkey Point EOF is on the fifth floor of the General Official content of the General Content			4. Sig	n in on the EOF Staff Accountability Board.		
necessary. b. The Turkey Point EOF is on the fifth floor of the General Office				port to your work area and proceed with any ad- lined in this procedure applicable to your emergen	ditional activation step cy response position.	
b. The Turkey Point EOF is on the fifth floor of the General Office Building located at 9250 West Flagler Street in Miami.			а.	Consult Figures 1 and 2 for directions to and necessary.	layout of the EOF, a	
-			b.	The Turkey Point EOF is on the fifth floor Building located at 9250 West Flagler Street in	of the General Offic Miami.	
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0-EPIP-1212		Emergency Operations Fac Activation and Opera		Approval Date: 9/21/99
5.2 The l follow		Security Manager (ESM) and	d Security Personnel	should perform
5.2.1	For Acti	ation:		
		CAUTION		
Security soon as p	must perfor lossible to ti	n a security sweep of the EO e facility.	F and should be dispa	atched as
e		<u>NOTE</u>		
EOF perso process.	onnel already	in place should not be impacte	d or impeded by securit	y check-in
		Emergency Security Manag ity Operations of activation of		
	a.	The Emergency Security Operations that any individu ID, be granted access for the	al presenting a valid st	
	2. Upor	arriving at the EOF, the ESM	I shall ensure the follow	wing is performe
	a.	Sign in on the EOF Access security support personnel ha	Log, indicate FFD states the signed in and indicates the signed in an and indicates the signed in an	atus, and ensure ated FFD status.
	b.	Sign in on the EOF Staff Acc personnel have signed in.	countability Board and	l ensure that secu
	с.	Ensure controlled procedures	are retrieved and used	1.
	d.	Ensure security sweep of the	EOF has been perform	ned or is in progra
	e.	Ensure Intoxilizer has bee performed and calibration da		alibration has b
		CAUTION		
		e EOF should be established ers activating the EOF.	in a manner that will	minimize
	f.	Set up security checkpoint at	the EOF entrance.	
		(1) Verify that responders listed in the ERD.	to the EOF are present	ting valid IDs or

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	5.2.1.2.f (Cont'd)	
	(2) Verify that no media personnel are all	owed to access the EOF.
	(3) Verify that individuals are signing in c	on the EOF Access Log.
	(4) Verify that Fitness for Duty screening performed, as necessary.	ng requirements are being
	(5) Verify that responders are signing Accountability Board.	g in on the EOF Staff
	g. Ensure that an additional table is set up at entrance to process off-site agency EOF and	the G.O. South employee ENC responders.
	h. Ensure communication capability with the and Local Law Enforcement Agencies (LLE	TSC Security Supervisor A) is available.
	i. Ensure requirements for granting prompt ac responders to the TSC/EOF have been initial	cess for NRC Event Team ted as necessary.
	j. Obtain an update from the TSC Security Sup	ervisor.
	(1) Discuss alternate routes for accessing t	he site as necessary.
	3. Inform the Recovery Manager that activation steps	have been completed.
5.2.2	For Operation:	
	1. Supervise and maintain security in the EOF and EN	NC.
	a. Ensure that measures are in place to ve personnel are allowed into the EOF.	rify that only authorized
	b. Ensure that all EOF responders are logging and indicating their FFD status.	in on the EOF Access Log
	c. Ensure that press is not allowed to leave the l Phone Area.	ENC Auditorium and Press
	2. Ensure that provisions for Fitness For Duty maintained in the EOF in accordance with Nucl Security Instructions.	inquiry and testing are lear Division policies and

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		<u>5.2</u>	.2 Co	nt'd)	<u></u>
- — ٦				<u>NOTE</u>	1
			P	hone numbers for LLEAs are listed in the ERD.	ľ
		3.		vide liaison between LLEAs and the Site to address uding:	coordination needs
			a.	Request for bomb squads or law enforcement activities or civil unrest.	to address terrorist
			b.	Alerting law enforcement of press or curious public	near the plant site.
			c.	Coordination of access for fire/emergency medica emergency responders.	l vehicles and plant
			d.	Status of traffic flow leaving site if a site evacuation	n is ordered.
	4	4.	Ensu the T	are that requirements for granting prompt access for ISC/EOF have been completed.	NRC responders to
	4	5.	Usin	g Attachment 4, record actions taken in accordance w	vith this procedure.
	(6.	been	ntain status of injured or injured/contaminated individ transferred from the site to an off-site medical fa lar to Attachment 3.	
	-	7.	Info	rm the Recovery Manager of security issues as they o	ccur.
5.3 Th	ne <u>EOF</u>	Su	<u>ervis</u>	sor or designee should perform the following:	
5.:	3.1	Acti	vatio	n	
	1	Ι.	Sign Supe	in on the EOF Access Log, indicate FFD status rvisor staff sign in and indicate FFD status upon entr	s, and ensure EOF y.
			a.	RM Operations Advisor	
			b.	Tech Assistant to the RM	
			c.	HRD Communicator	
			d.	ENS Communicator	

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		5.3.1.1 (Cont'd)	
		e. ERDADS Operator	
		f. TSC Communicator	
		g. Administrative Supervisor	
		h. Administrative Staff	
		i. Status Board Keeper	
	2.	Sign in on the EOF Staff Accountability Board and ensu staff sign in upon entry and begin performing activation s	ure EOF Supervis teps.
	3.	Ensure all facility personnel sign in on the EOF Staff Acc	ountability Board
	4.	Ensure the steps outlined in Subsection 5.1, the First En Section of this procedure, have been completed.	nergency Respond
[— — — ·	-	NOTES	1
positions	s with opera	onnel who normally fill other positions may be used in minir required functions (i.e., notification/communication) to facilita bility of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Dur ager.	te fastest
positions possible Recover	s with opera y Man sitions n numi	required functions (i.e., notification/communication) to facilita ibility of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Dur ager. marked in red on the EOF Staff Accountability Board inc ber of personnel and positions required for EOF activation.	ties of the line line line the line line the line line line line line line line lin
positions possible Recover	s with opera y Man sitions n numi 5.]	required functions (i.e., notification/communication) to facilitation bility of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Durager. marked in red on the EOF Staff Accountability Board inclusion ber of personnel and positions required for EOF activation. Ensure the following EOF positions have been filled to staffing requirements prior to the RM declaring the EOF of	tie fastest ties of the licate the
positions possible Recover	s with opera y Man sitions n numl 5.]	required functions (i.e., notification/communication) to facilita ability of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Durager. marked in red on the EOF Staff Accountability Board incluser ber of personnel and positions required for EOF activation. Ensure the following EOF positions have been filled to staffing requirements prior to the RM declaring the EOF of a. Recovery Manager	tie fastest ties of the licate the
positions possible Recover	s with opera y Man sitions n num 5.	required functions (i.e., notification/communication) to facilitation bility of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Durager. marked in red on the EOF Staff Accountability Board indi- ber of personnel and positions required for EOF activation. Ensure the following EOF positions have been filled to staffing requirements prior to the RM declaring the EOF of a. Recovery Manager b. RM Operations Advisor	tie fastest ties of the licate the
positions possible Recover	s with opera y Man sitions n num 5.	required functions (i.e., notification/communication) to facilitation bility of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Durager. marked in red on the EOF Staff Accountability Board incomer of personnel and positions required for EOF activation. Ensure the following EOF positions have been filled to staffing requirements prior to the RM declaring the EOF of a. Recovery Manager b. RM Operations Advisor c. Hot Ring Down Communicator	tie fastest ties of the licate the
positions possible Recover	s with opera y Man sitions n numi 5. 1 5. 1 5. 1 5. 1 5. 1 5. 1 5. 1 5. 1	required functions (i.e., notification/communication) to facilita ability of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Dur- ager. marked in red on the EOF Staff Accountability Board inclu- ber of personnel and positions required for EOF activation. Ensure the following EOF positions have been filled to staffing requirements prior to the RM declaring the EOF of a. Recovery Manager b. RM Operations Advisor c. Hot Ring Down Communicator d. Dose Assessment Coordinators (2)	tie fastest ties of the licate the
positions possible Recover The pos minimum	s with opera y Man sitions n num 5. 1 5. 1 5. 1 5. 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 7 7 7	 required functions (i.e., notification/communication) to facilitation/bility of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Durager. marked in red on the EOF Staff Accountability Board incoder of personnel and positions required for EOF activation. Ensure the following EOF positions have been filled to staffing requirements prior to the RM declaring the EOF of a. Recovery Manager RM Operations Advisor Hot Ring Down Communicator Dose Assessment Coordinators (2) ERDADS Operator or TSC Communicator 	tie fastest ties of the ficate the
positions possible Recover The pos minimum	s with opera y Man sitions n num 5.	required functions (i.e., notification/communication) to facilitation bility of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Durager. marked in red on the EOF Staff Accountability Board income ber of personnel and positions required for EOF activation. Ensure the following EOF positions have been filled to staffing requirements prior to the RM declaring the EOF of a. Recovery Manager b. RM Operations Advisor c. Hot Ring Down Communicator d. Dose Assessment Coordinators (2) e. ERDADS Operator or TSC Communicator Take actions to fill position vacancies within the EOF.	the fastest ties of the flicate the so satisfy <u>minimu</u> operational.
positions possible Recover The pos minimum	s with opera y Man sitions n num 5. 1 5. 1 5. 1 5. 1 6. 1 6. 1 7. 1	 required functions (i.e., notification/communication) to facilitation/bility of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Durager. marked in red on the EOF Staff Accountability Board incoder of personnel and positions required for EOF activation. Ensure the following EOF positions have been filled to staffing requirements prior to the RM declaring the EOF of a. Recovery Manager RM Operations Advisor Hot Ring Down Communicator Dose Assessment Coordinators (2) ERDADS Operator or TSC Communicator 	the fastest ties of the flicate the so satisfy <u>minimu</u> operational.
positions possible Recover The pos minimum	s with opera y Man sitions n num 5. 1 5. 1 5. 1 5. 1 6. 1 6. 1 7. 1	required functions (i.e., notification/communication) to facilitat bility of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Durager. marked in red on the EOF Staff Accountability Board inco- ber of personnel and positions required for EOF activation. Ensure the following EOF positions have been filled to staffing requirements prior to the RM declaring the EOF of a. Recovery Manager b. RM Operations Advisor c. Hot Ring Down Communicator d. Dose Assessment Coordinators (2) e. ERDADS Operator or TSC Communicator Take actions to fill position vacancies within the EOF. Verify with the State and County Personnel that their equi-	the fastest ties of the flicate the so satisfy <u>minimu</u> operational.

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0-EPIP-1212				
	<u>5.3.1 (Cont'd)</u>	•		
	8. For Alert, Site Area Emergency or General Emergency Management notifies American Nuclear Insurers (ANI).	gency, ensure Ris		
	9. Inform the Recovery Manager that your activation completed.	n steps have been		
5.3.2	For Operation:			
	NOTE			
i i i	Communication links should not be left unattended.	l L L		
	1. Verify operability of communication and notification link	 (HRD, ENS, etc.)		
	2. Verify timeliness of notifications via HRD, ENS, etc.			
[— - —]	<u>NOTE</u>			
I Status b	oards should be updated approximately every 15 minutes or as nece	ssary.		
	3. Ensure the Plant Parameter Status Board is maintained wi			
	 Ensure the Plant Parameter Status Board is maintained wi Ensure the Sequence of Events Status Board is main information. 			
	 Ensure distributions are performed through the E Supervisor using Enclosure 3 as guidance. 	OF Administrative		
	 Discuss with the RM the need to halt deliveries to the sit deliveries, mail, etc.). 	e (major equipmen		
	a. As necessary, make contacts to halt deliveries.			
	7. Periodically check with the State and county personnel coperability of their equipment in the EOF (phones, faxes,	on the adequacy and etc.)		
	8. Resolve equipment and assessment capability problems.			
	9. Contact additional support as needed.			
	10. Schedule long term staffing as necessary.			
	11. Maintain a log of activities.			

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· · · · · · · · · · · · · · · · · · ·	212		Emergency Operations Facility (EOF) Activation and Operation	Approval Date	17 :: 1/99			
5.4	The <u>RM</u>	<u>1 Op</u>	erations Advisor should perform the following:					
	5.4.1	For	Activation:					
		1.	Sign in on the EOF Access Log and indicate FFD status.					
		2.	Sign in on the EOF Staff Accountability Board.					
		3.	Obtain copies of the PAR Discussion Items Form from (of the Recovery Manager, and begin filling out the forr update.					
		4.	4. Ascertain plant status from the EOF TSC Communicator, TV System, or other available source.					
		5.	5. Inform the RM that you have completed your activation steps.					
	5.4.2	For Operation:						
		1.	Provide updates to the RM using the PAR Discussion 0-EPIP-1102, Duties of the Recovery Manager, appro- minutes or upon significant changes.	n Items Fo	orm from every 45			
		2.	Follow plant status using the EOF TSC Communicator, available source.	rv System	, or other			
		3.	Remain current with emergency classification status classification is posted.	and ensure	e current			
		4.	Ensure the RM is aware of and updates the state and coursite evacuation and owner controlled area clearing progress	nties on the ss as approp	status of priate.			
		5.	Routinely review EOPs progress with the RM, as necessar	ry.				
		6.	Assume the duties of the RM while the RM is cond necessary.	ucting brie	fings, as			
		7.	Assist the RM in preparing for briefings, as necessary.					
		8.	Provide operations/plant status during briefings, as necess	ary.				
		9.	Maintain the RM logbook.					

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Procedure No.:	. 1	rocedure Title:	Page: 18
0-EPIP-12	212	Emergency Operations Facility (EOF) Activation and Operation	Approval Date: 9/21/99
5.5 1	The <u>Tech</u>	nical Assistant to the RM should perform the following:	
5	5.5.1 H	For Activation:	
	1	. Sign in on the EOF Access Log and indicate FFD status.	
	2	Sign in on the EOF Staff Accountability Board.	
	3	Determine present and potential future Emergency Actio	n Level Status.
	4	Ensure last notifications to off-site agencies correctl situation.	y portrayed presen
	5	Assist HRD Communicator with the completion of stat as necessary.	e notification form
	6	Acquire 0-EPIP-1102, Duties of the Recovery Manager, all applicable steps and inform the Recovery Manager of	ensure completion of the status.
	7	. Inform the Recovery Manager that you have completed y	our activation steps
5	.5.2 F	for Operation:	
	1	. Ensure all applicable steps of 0-EPIP-1102, Duties of the are completed.	e Recovery Manage
	2	. Update the 10-mile EPZ map with Protective Actions issue	ued.
	3	. Ensure the Plant Parameter Status Board and Sequen accurately reflect the event.	ce of Events Boar
	4	Assist the RM in preparing for briefings, as necessary.	
	5	. Provide operations / plant status during briefings, as nece	ssary.
	6	. Assume the duties of the RM while the RM is cond necessary.	lucting briefings, a
	7	. Maintain a log of activities.	

O-EPIP-1212 Emergency Operations Facility (EOF) Activation and Operation Approval Date: 5/31/00 5.6 The Hot Ring Down (HRD) Communicator should perform the following: 5.6.1 For Activation/Operation: 1 Sign in on the EOF Access Log and indicate FFD status. 2 Sign in on the EOF Access Log and indicate FFD status. 3 5.6.1 For Activation/Operation: 1 Sign in on the EOF Access Log and indicate FFD status. 3 5 Sign in on the EOF Access Log and indicate FFD status. 3 5 Sign in on the EOF Access Log and indicate FFD status. 3 5 Sign in on the EOF Access Log and indicate FFD status. 3 Sign in on the EOF Access Log and indicate FFD status. 3 Sign in on the EOF Access Log and indicate FFD status. 3 Sign in on the EOF Access Log and indicate FFD status. 3 Sign in on the EOF Access Log and indicate FFD status. 3 Sign in on the EOF Access Log and indicate FFD status. 3 Sign in on the EOF Access Log and indicate FFD status. 3 Sign in on the EOF Access Log and indicate FFD status. 3 Sign in on the EOF Access Log and indicate FFD status. Sign in on the state Warming Point is required within 15 minutes of an in proceedure. Image: Mage: Mage		ļ	Procedure 1	Title:	Page: 19
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c. Fax of previous Florida Nuclear Plant Emergency Notification			a.	Time of last update	
c. Fax of previous Florida Nuclear Plant Emergency Notification Forms, if applicable.			b.	Delegation of future notifications	
			с.	Fax of previous Florida Nuclear Plant Emergency J	Notification

Description Emergency Operations Facility (EOF) Activation and Operation Approval Date: 9721/5 5.6.1 (Cont'd) NOTE 1 Notification forms should be filled out as neatly and completely as possible. Abbreviations should not be used. 1 5. Complete a form similar to Attachment 1. a. Obtain Recovery Manager approval prior to transmitting information. 1 6. If the State and county representatives are not in the EOF, transm information over the Hot Ring Down System or Backup System, as requ 7. If the State and County Representatives are in the EOF, 15 r notifications should be met by transmitting the form through direct c with the State Representative. 5.7 The Emergency Notification System (ENS) Communicator should perform the follow 5.7.1 For Activation/Operation: 1. Sign in on the EOF Access Log and indicate FFD status. 2. Sign in on the EOF Accountability Board. CAUTIONS • Notification to the NRCOC is required immediately following a State Notification and within one hour of the emergency declaration. • Collection of Release rate data shall not delay NRC notification. • If a transitory event has occurred, notifications are still required using this procedure. 3. Obtain copies of the Event Notification Worksheet Form (form simi Attachment 2).	dure No.:	Procedure Title:	Page: 20
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3. Obtain copies of the Event Notification Worksheet Form (form simil	Collecti	on of Release rate data shall not delay NRC notification.	
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		3. Obtain copies of the Event Notification Worksheet For Attachment 2).	m (form simila

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5.7.1 (Cont'd)

- 4. Obtain a turnover from the TSC ENS Communicator to include the following:
 - a. Time of last update.
 - b. Delegation of future notifications.
 - c. Fax of previous Event Notification Worksheets Form (form similar to Attachment 2), if applicable.
 - d. Status of the ERDS link to the NRC and whether the NRC has been informed the link is in place.
- Notification forms should be filled out as neatly and completely as possible. Abbreviations should not be used.

NOTE

- 5. If a continuous line of communication has <u>not</u> been established with the NRC, then perform the following:
 - a. Every hour complete a form similar to Attachment 2, unless less frequent updates are agreed to, upon termination, or as conditions change (PARs, classification, significant plant conditions).
 - b. Obtain Recovery Manager approval by having him/her review and initial the Event Notification Worksheet Form (form similar to Attachment 2).

NOTE

The NRC may require a constant line of communication and both TSC and EOF may be requested to stay on the line.

- c. Contact the NRCOC, as required, using the numbers on the phone (or in the Immediate Notification Section of the ERD).
- d. Provide the information on the form.
- e. If the ERDS link has been established and if not previously informed by the TSC, inform the NRC that the ERDS link is available.
- f. If the NRCOC does not require a constant line of communication, notifications to the NRCOC should be performed as required.
- 6. Once a continuous line of communications has been established with the NRC, discontinue use of the form and record transmitted information and inquiries from the NRC in the logbook.

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	5.8	The <u>ER</u>	DADS Operator should perform the following:	
		5.8.1	For Activation:	
			1. Sign in on the EOF Access Log and indicate FFD status.	
			2. Sign in on the EOF Accountability Board.	
			3. Verify ERDADS operability:	
			a. Verify the displays indicate the correct unit.	
			(1) To change unit	
			(a) Press <clear></clear>	
			(b) Type PUP UNIT (3 or 4)	
			(c) Press <exec></exec>	
			(d) Unit Change Complete message shoul	d appear.
			b. Check that the following displays are available:	
			(1) Off-site Dose Radiological Data (R3/4)	
			(2) Emergency Plan Data (ED3/4)	
			(3) Environmental Trends (MC3/4ENV)	
			(4) Meteorological Parameter Verification (EP3/4	ENV)
			(5) PTN Status Unit ³ / ₄ (U3/4)	
			c. Check that the color plotter is operable.	
			d. Check that the two line printers are operable.	
		5.8.2	For Operation:	
			1. Call up ERDADS information as requested.	
			2. Provide printouts to the EOF Staff.	
			3. Observe ERDADS data during intervals between r significant changes and trends.	report printing for
			4. Report changes to the RM or RM Ops Advisor.	
	*/MR/bsc/bc/ev			

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5.8.2 (Cont'd)

- 5. If ERDADS is inoperable or printouts are unavailable, then:
 - a. Assist EOF Communicators in collecting plant parameter and radiological data.
 - b. Contact the TSC ERDADS operator to report the problem and request faxes, if necessary.
- 5.9 The <u>TSC Communicator</u> should perform the following:
 - 5.9.1 For Activation:
 - 1. Sign in on the EOF Access Log and indicate FFD status.
 - 2. Sign in on the EOF Accountability Board.
 - 3. Establish communications with the TSC using the numbers in the ERD.
 - 4. Request fax copies of the Emergency Coordinator Log and provide to the EOF RM Operations Advisor.
 - 5. Obtain a turnover from the TSC EOF Communicator, including all events and activities that have occurred up to this point (request fax copies of the TSC Sequence of Events Board and the TSC Plant Parameters Status Board).
 - 6. Update the Sequence of Events Board with the turnover information.
 - 5.9.2 For Operation:
 - 1. Maintain communications with the TSC.
 - 2. Update the Sequence of Events Board with current information.
 - 3. If ERDADS is out of service obtain plant status information through the phone in communication with the TSC

5.10 The <u>Administrative Supervisor</u> should perform the following:

5.10.1 For Activation:

- 1. Sign in on the EOF Access Log, indicate FFD status, and ensure EOF Administrative staff sign in promptly and indicate FFD status upon entry.
- 2. Sign in on the EOF Accountability Board and ensure EOF Administrative staff sign in and begin assisting with activation steps upon entry.
- 3. Ensure the Simu-Fax is operable per Enclosure 2.

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Due to hur avoid paper		ects on paper, copy paper and fax paper should be char	nged out to
	4. Co ha	opy machines in the Administrative Support and Do by been turned on and are functional.	ose Assessment areas
	5. Fa	ix machines have been turned on and are operable.	
	6. T ve	V monitors have been turned on and video and audio or rified as operable.	of the TSC have been
	a.	One TV should be viewing the TSC, the other sl ENC.	hould be viewing the
	b.	If problems with video or audio exist, contact the Communicator (phone number in ERD).	e TSC Site Corporate
	7. Ve spo	erify audibility of the speaker system throughout eakers as required.	the EOF and adjust
	8. Sy	nchronize all clocks in the facility using ERDADS tin	ne as official time.
5.10.2	For Op	eration:	
	1. En pro	sure correspondence is being faxed as necessary to ogrammed in the Simu-fax (also listed in the ERD, Sec	the phone numbers tion 5.0).
	2. En	sure distributions are performed as per Enclosure 3.	
	3. En dis	sure minutes of formal briefings are taken to record point cussed.	pertinent information
	4. En wa	sure adequate measures are in place to meet personal ter, etc. both at the EOF and the plant.	needs such as food,
		range hotel reservations and car rentals for inco	oming personnel as

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5.11 The <u>St</u>	tus Board Keeper should perform the following:	
5.11.1	For Activation/Operation:	
	1. Sign in on the EOF Access Log and indicate FFD sta	itus.
	2. Sign in on the EOF Accountability Board.	
	3. Ensure update of the Plant Data Status Board is i ERDADS printouts (Emergency Plan Data [ED3/4 Events Board.	
	4. If ERDADS is out of service obtain plant parameter in communication with the TSC.	r data through the phone
· · · ·	5. Make corrections to the board, when identified, by ci	rcling the corrected data.
	6. When all status board columns/blanks are fille columns/blanks, enter new data, with a different co space between the new and the old data.	d, erase the first two blored marker, leaving a
5.12 The <u>He</u> followi	alth Physics Manager (HPM) / Dose Assessment Coordin ag:	ator should perform the
5.12.1	For Activation:	
	1. Sign in on the EOF Access Log, indicate FFD state Assessment Staff sign in and indicate FFD status upo	us, and ensure all Dose n entry.
	a. Dose Assessment Coordinators	
	b. Dose Assessment Recorder	
	c. Field Monitoring Coordinator	
	d. Field Monitoring Recorder	
	e. HPN Communicator	
	2. Sign in on the EOF Staff Accountability Board Assessment Staff sign in upon entry and begin perfor	

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	<u>5.12.1 (Cont'd)</u>	
ŗ — - —	<u> </u>	1
If current of dose calcu	ose calculations from the TSC are available in the EOF, the perations by the EOF staff should not delay EOF activation.	rformance of
	3. Establish communications with the Dose Assessment and obtain an update on present or potential releases.	personnel in the TSC
	4. Request copies of previously performed dose assessme	nts from the TSC.
	5. Turn on the Dose Assessment Computer System and ve	erify operability.
	a. Synchronize the date and time of the computer with	ERDADS.
	6. Complete Class A Model QC check.	
	7. Ensure off-site dose calculations are initiated 0-EPIP-20126, Off-site Dose Calculations.	in accordance with
	8. Verify operability of the EOF Dose Assessment fax ma	chine.
	9. Acquire copies of the PAR Discussion Items form from of the Recovery Manager, and provide updates to the requested.	n 0-EPIP-1102, Duties Recovery Manager as
	10. Inform the Recovery Manager that you have completed	your activation steps.
5.12.2	For Operation:	
	1. Ensure off-site dose calculations are being performe 0-EPIP-20126, Off-Site Dose Calculations, in conjunction	d in accordance with on with the TSC.
	2. Obtain input data for the Class A model from ERDADS	5.
	3. Provide updates to the RM for the PAR Disa approximately every 45 minutes or upon significant cha	cussion Items Form nges.
	4. Ensure Field teams are tracked and coordinated betw DOH-BRC.	een the TSC and the
	5. Review/compare field monitoring results with dose calc	ulations.

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5.12.2 (Cont'd)

- 6. Coordinate Dose Assessment with the TSC.
- 7. Provide radiological information to support the ENC.
- 8. Ensure adequate communication is provided via the HPN.
- 9. Ensure status boards in the Dose Assessment Area are being updated by providing update information to the Dose Assessment Recorder.
- 10. Assist the RM in preparing for briefings, as necessary.
- 11. Provide radiological data in briefings, as necessary.
- 12. Maintain a log of activities.

5.13 The <u>Dose Assessment Recorder</u> should perform the following:

- 5.13.1 Operation:
 - 1. Sign in on the EOF Access Log and indicate FFD status.
 - 2. Sign in on the EOF Staff Accountability Board.
 - 3. Report to the EOF HP Manager or Dose Assessment Coordinator for special instructions.

5.13.2 For Operation:

- 1. Obtain data from Dose Assessment Coordinator.
- 2. Update the Dose Assessment and Process Radiation Monitoring System status boards in the Dose Assessment Area in a timely manner.
- 3. Make corrections to the board, when identified, by circling the corrected data.
- 4. When all status board columns/blanks are filled, erase the first two columns/blanks, enter new data, with a different colored marker, leaving a space between the new and the old data.

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5.14 The <u>Field Monitoring Coordinator</u> should perform the following:

5.14.1 For Activation:

- 1. Sign in on the EOF Access Log and indicate FFD status.
- 2. Sign in on the EOF Staff Accountability Board.
- 3. Establish contact with the TSC Offsite Team Leader.
- 4. Determine location of offsite field teams and indicate on EPZ maps.
- 5.14.2 For Operation:
 - 1. Coordinating FPL teams with DOH-BRC Control teams, and other offsite agencies, if present, and the TSC Offsite Team Leader.
 - 2. Request the TSC offsite Team Leader to send FPL field monitoring teams to survey locations.
 - 3. Compare field team results to dose calculations by performing calculations on Attachment 7 or a similar form.
 - 4. Provide field team data to the Health Physics Manager to supplement Protective Action Recommendations data and to assist in defining the level of emergency classification.
- 5.15 The Field Monitoring Recorder should perform the following:
 - 5.15.1 For Activation/Operation:
 - 1. Sign in on the EOF Access Log and indicate FFD status.
 - 2. Sign in on the EOF Staff Accountability Board.
 - 3. Assist the Field Monitoring Coordinator with update of EPZ maps and Field Monitoring Board.

5.16 The Health Physics Network (HPN) Communicator should perform the following:

5.16.1 For Activation:

- 1. Sign in on the EOF Access Log and indicate FFD status.
- 2. Sign in on the EOF Staff Accountability Board.
- 3. Establish connection on the NRC HPN conference bridge, as necessary.

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5.16.2 For Operation:

- 1. Maintain communications with the NRC through the Health Physics Network (HPN).
- 2. Log all questions from the NRC in the logbook.
- 3. Obtain answers to questions from the appropriate EOF personnel.
- 4. Maintain documentation of any significant information provided or received.
- 5. Assist the Health Physics Manager, as necessary.

5.17 The Emergency Technical Manager (ETM) should perform the following:

- 5.17.1 For Activation:
 - 1. Sign in on the EOF Access Log, indicate FFD status, and ensure that all Engineering staff sign in and indicate FFD status upon entry.
 - 2. Sign in on the EOF Staff Accountability Board and ensure that all Engineering staff sign in upon entry.

CAUTION

Use controlled documents and drawings for Engineering Assessments and Evaluations.

- 3. Obtain controlled procedures for use by Engineering staff.
- 4. Ensure staffing is in place and communications have been established with the TSC.
- 5. Obtain system availability status from System Operations or the TSC Lead Engineer.
- 6. Obtain an update from the TSC Engineering staff of previous and current events.

<u>NOTE</u>

See Enclosure 4 for ERDADS data point descriptions for Turkey Point Plant.

- 7. Obtaining data from ERDADS for use by EOF staff.
- 8. Ensure computers have been turned on and functionally checked.

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5.17.1 (Cont'd)

- 9. Ensure aperture card readers and microfiche readers are turned on and functional.
- 10. Inform the Recovery Manager when the Engineering staff is ready to perform the following:
 - a. Engineering assessment of the event.
 - b. Evaluation of long term plant actions to mitigate consequences of the event.
 - c. Core damage assessment in accordance with 0-EPIP-1302, PTN Core Damage Assessment.
- 11. Inform the Recovery Manager that you have completed your activation steps.

5.17.2 For Operation:

CAUTION

Engineering staff should not request or direct site staff to perform any operational actions. Engineering evaluations should be given to the ETM.

- 1. Promptly inform the Recovery Manger of engineering recommendations, determinations or analysis results.
 - a. The Engineering Technical Response Worksheet, Attachment 5, or similar form should be used to document engineering recommendations, determinations or results.
 - b. The Emergency Technical Manager Task Board should be used to track tasks assigned to the EOF Engineering Staff.
- 2. Ensure that the following items are performed:
 - a. Plant conditions via ERDADS are available to the EOF Engineering Staff.
 - b. Core damage assessment calculations are performed as appropriate.
- 3. Support the TSC in problem solving based on engineering design and as built construction details. This service shall be performed under the direction of the Recovery Manager.

5.17.2 (Cont'd)

- 4. Evaluate long-term plant actions to mitigate the consequences of the event.
- 5. Request occasional updates on TSC Engineering tasks via fax or phone, as necessary.
- 6. Inform the RM of engineering recommendations, determination or analysis results.
- 7. Assist the RM in preparing for briefings.
- 8. Participate in briefings, as necessary.
- 9. Maintain a log of activities.

5.18 The <u>Emergency Control Officer (ECO)</u> should perform the following:

- 5.18.1 For Activation:
 - 1. Sign in on the EOF Access Log, indicate FFD status, and ensure the EIM/ENC Technical Advisors and NDDO sign in and indicate FFD status upon entry.
 - 2. Sign in on the EOF Staff Accountability Board and ensure the EIM/ENC Technical Advisors and NDDO sign in upon entry.
 - 3. Ensure the EIM has the necessary EIM/ENC Technical Advisors.
 - 4. Ensure the ENC staff is available to support the EIM.
 - 5. Ensure the County EOC Technical Advisors are in place to support the county EOCs.
 - 6. Inform the Recovery Manager that you have completed your activation steps.
- 5.18.2 For Operation:
 - 1. Assist with governmental agency and Regulatory Affairs interface.
 - a. Updates to Tallahassee Governmental Affairs for Unusual Events may be performed on a case by case basis.
 - b. Information updates to Tallahassee Governmental Affairs should be performed for an Alert or higher classification.

O-EPIP-1212 Emergency Operations Facility (EOF) Activation and Operation Approval Date: 9/21/99 5.16.2 Cont'd) 2. When the EOF is activated: 9/21/99 9. When the EOF is activated: NOTE 9 9. When the EOF is activated: 9 9 9. Other activation 9 9 9. Dispatch a Governmental Affairs person to the State EOC to provid interface as directed. 9 9. Provide liaison functions to elected or appointed public officials. 9 9. Provide liaison functions to cleate for appointed public officials. 9 9. Provide liaison functions to cleate for appointed public officials. 9 9. Provide liaison functions to cleate for appointed public officials. 9 9. Provide liaison of Emergency Management 10 10. Nuclear Regulatory Commission 11 11. Nuclear Regulatory Affairs 11 12. Regulatory Affairs 11 13. Department of Health – Bureau of Radiation Control 12 14. County Emergency Monagement 13 15. Regulatory Affairs 11 16. Interface with the Governor's Advisor and with the County EOF. As practical, while enroute to the EOF. The NDDO should than proceed to the EO	Procedure No.:	Procedure 7	Fitle:	Page: 32
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		alrea	dy done, a news release should be issued as soon as	ews releases. If not s practical after the

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5.18.2 (Cont'd)

- 5. Continue to maintain awareness of plant conditions, media interest and news references, and governmental agencies' actions and concerns.
- 6. Perform a technical spokesperson function in news media briefings utilizing the guidelines in Enclosure 5 as necessary.
- 7. Ensure the RM is informed of activities involving the GAM, Regulatory Affairs, and Risk Manager.
- 8. Ensure the RM is aware of primary concerns of the media and the public.

5.19 The Nuclear Division Duty Officer (NDDO) should perform the following:

- 5.19.1 For Activation:
 - Sign in on the EOF Access Log and indicate FFD status. 1.
 - Sign in on the EOF Staff Accountability Board. 2.
 - 3. Serve as advisor to the EIM, GAM, Regulatory Affairs or Risk Manager on technical matters as necessary.
 - 4. Locate the ECO Logbook and initiate logkeeping for the ECO.
- 5.19.2 For Operation:
 - Serve as ECO in the EOF until a designated ECO is obtained and proper 1. turnover has been given, or during periods of time when the ECO leaves the facility.

NOTE

The phone number for INPO can be found in the ERD.

- For alert classifications or higher, notify INPO and provide a brief update of 2. the event.
 - a. Request INPO assistance to submit press over Nuclear Network, and informing FPL of any media inquiries or industry assistance of the event.
 - Document conversations in the ECO Logbook. b.
- 3. Provide support to the ECO as necessary.

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5.20 The <u>Er</u> Adviso	nergency Information Manager (EIM) / Emergency News Cen rs should perform the following:	ter (ENC) Technic
5.20.1	For Activation:	
	1. Sign in on the EOF Access Log and indicate FFD status.	
	2. Sign in on the EOF Accountability Board.	
	3. Report to the Emergency Information Manager for specia	l instructions.
5.20.2	For Operation:	
·	<u>NOTE</u>	
One Tech A while the ot	dvisor is normally assigned to support the EIM in the EOF with pres- her will assist the ENC with media briefings.	s releases
	1. Provide technical assistance to the EIM/ENC Manager an	d staff.
	2. Assist the EIM with preparation of press releases.	
	3. Provide technical expertise and answer questions duri media (Reference Enclosure 5).	ng briefings of th
	4. Provide technical expertise and answer questions for Public Information Officers.	the other agencies
	5. Maintain contact with the other technical advisor or R make sure that information is current and accurate and on issues discussed with the media.	
5.21 The <u>Co</u> followin	unty Emergency Operations Center (EOC) Technical Advisors	should perform th
5.21.1	For Activation/Operation:	
	1. Proceed to the assigned County EOC when instructed to d	lo so.
r — ·	<u>NOTE</u>	1
Phon	e numbers for the ENC and EOF may be found in the ERD, Section 4	l.O.
L		d
	2. Introduce yourself to the County EOC staff.	

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Procedure No.:

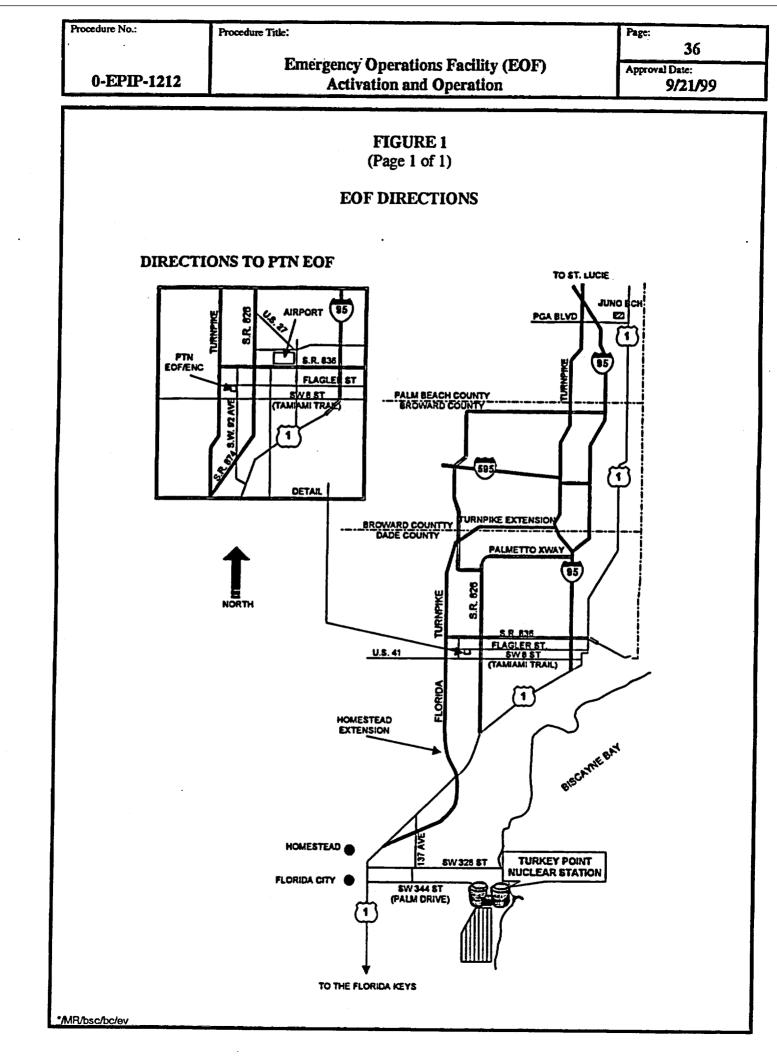
0-EPIP-1212

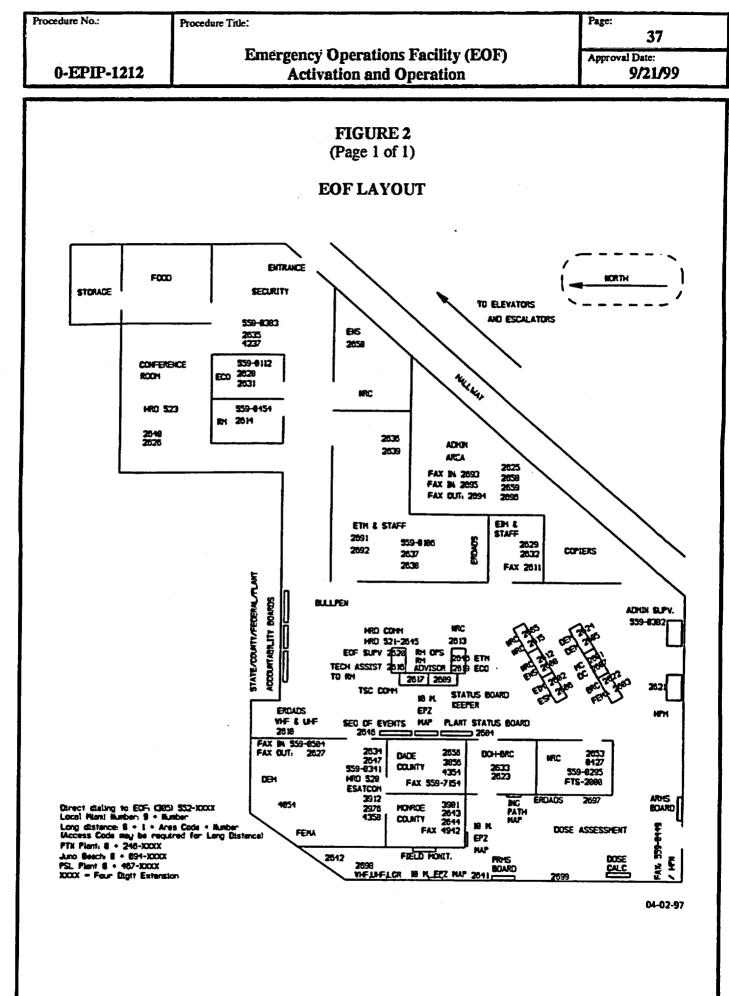
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- 3. Establish contact with a member of the EOF RM Staff to obtain technical information (emergency status information, reports on plant recovery, etc.).
- 4. Establish contact with the ENC Technical Advisor for non-technical, public concerns.
- 5. Provide contacts in the EOF/ENC with a number where you can be reached.
- 6. Advise the County EOC staff on the plant status and status of the emergency.
- 7. Participate in EOC briefings.
- 8. Advise the ENC of any county actions that have been taken or are under consideration, including Emergency Alert System messages and all protective actions initiated by the county.
- 9. Alert the ENC prior to activation of the EPZ Siren System by Dade County.
- 10. When county EOC personnel ask questions regarding activities taking place at any FPL facility, contact the ENC Technical Advisor or a member of the RM staff for answers.
- 11. Stay abreast of rumors that come into the County or State Rumor Control and pass on information (and responses) to the ENC so all responses will be consistent.
- 12. Verify receipt of any FPL news releases sent to the EOC.
- 13. Keep a log of all activities at the EOC and a record of questions called into the EOF/ENC and responses received.

END OF TEXT





/MR/bsc/bc/ev

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ENCLOSURE 1 (Page 1 of 1)

DIRECTIONS TO STATE EOC IN TALLAHASSEE

Directions:

From Tallahassee Regional Airport (TLH):

- Take Capitol Circle EAST, past Rt. 319 intersection to Centerview Drive (approximately 12 miles)
- At office complex on left (Koger Center), turn left on Centerview Drive
- Turn right into first parking lot. Located on lst floor, southeast side of building you will be facing the State EOC as you enter the parking lot.

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ENCLOSURE 2 (Page 1 of 2)

SIMU-FAX INSTRUCTIONS

- 1. In the Admin Area of the EOF, locate the computer with the scanner attached.
- 2. Ensure computer is on.
- 3. Login using your normal computer ID (SLID) and your password.
- 4. Once logged in, locate the fax icon located on the bottom right of the task bar.
- 5. Click on fax machine and denote the printer as VBXSA58/HPFAX or Rightfax printer.
- 6. Click on fax machine and then click on FaxUtil.
- 7. If prompted to login, use State Notification-Don Mothena without a password. This will get you the phonebook with all of the drill/emergency related fax machines. If logged in on your own SLID, access the top right scroll bar and change your phonebook to State_Notification, Don Mothena.
- 8. To fax, click on menu item Fax and then New.
- 9. The fax screen will open.
- 10. Click on Phonebook.
- 11. To fax to All Points, click the block to the left of ALL_STATE_NOT, then click OK.
- 12. After choosing the fax designation, you will be returned to the fax screen.
- 13. Click on the scan button and ensure the document to be sent is in the scanner.
- 14. Enter the number of pages you will be scanning in the designated block.
- 15. Click on scan.
- 16. You will be returned to the previous screen.
- 17. Ensure that the cover sheet option at the bottom left of the screen does not have a check in it (cover sheets are not desired).
- 18. Click on the Send button (top right).
- 19. You will be returned to the main screen where In-process faxes will show as line items.

Emergency Operations Facility (EOF) Activation and Operation

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ENCLOSURE 2 (Page 2 of 2)

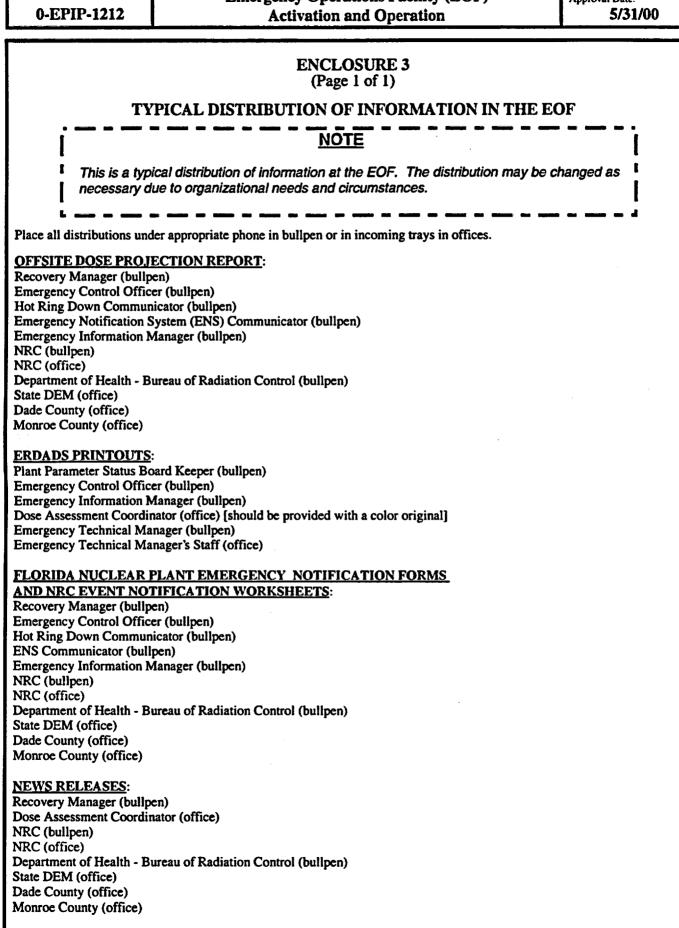
SIMU-FAX INSTRUCTIONS

- 20. Once the fax has been delivered, you can see it by choosing List from the Menu Bar, then clicking on Sent Fax List (Outbound). Only completed faxes will be listed here. If the fax remains in the in-process page, that means it has not been delivered. Attempts to continue delivering the fax will continue, if you note that a certain fax has not been delivered, you should attempt to confirm the fax number to that location.
- 21. Individuals may be added to the list as needed or just entered for a one time fax, if needed. To enter the fax one time, click on fax and new, put the individual's name and fax number in the appropriate location, scan your document and click send.

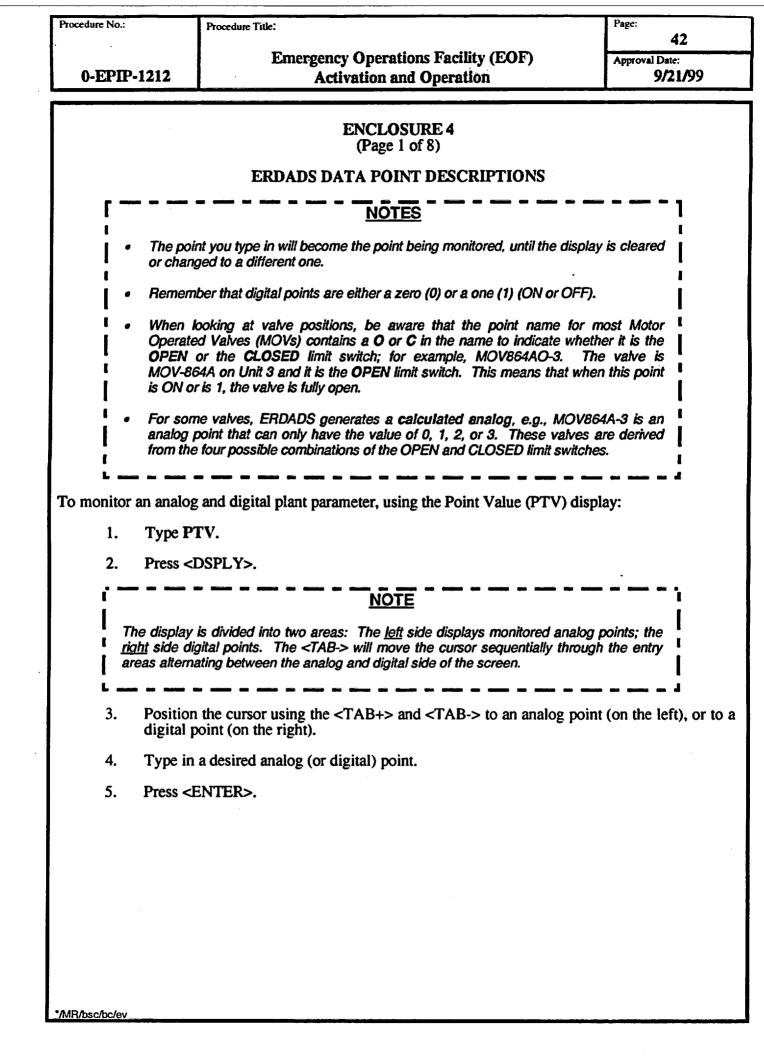
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rocedure No.:	Procedure Title:			· · · · · · · · · · · · · · · · · · ·		Page:
0-EPIP-1212				ency Operations Facil activation and Operat		43 Approval Date 9/21/99
The following data p Consult ERDADS M	point descript Janual, as neco	ions for T essary, for	urkev Point Plant co	ENCLOSURE 4 (Page 2 of 8) DATA POINT DESC rrespond with the data ID, point names or des	normally tracked on the Operations Parame	eters Status Board.
POINT DESCRIPTI		PT ID	POINT NAME	TYPE CALCULATION	NOTES	
Avg. HL Ten	np	885	THAVTEMP-3	Average	The average of the three loop average Th.	
RCS Pressure	e WR	759	RCSAVPRES-2	Average	The RCS pressure is the average of the channels. If one channel is good, then its v If both inputs are invalid, an average of the occur, and the result will be flagged as PT406 monitor the hot leg pressure of RC respectively.	value will be used. two channels will bad. PT404 and
Pressure Avg	; Level	785	PRZ-AVLVL-3	Average	The pressurizer average level is calculated sensor algorithm. At least two channels to 8% of the calculated rejection value for a Instrument range of 0-100% level is equivingly. Transmitters are hot calibrated at Protection signals include: High level tri low low level alarm at 6%. Controls include letdown isolation at 14% high level alarm LVL program + 5%, and low level program -5%.	nust agree within valid output. The alent to 600-9050 t 650 degrees F. p at 91% (2/3), a de: heaters off and and heater on at
Charging Flo	W.	439	FT122-3		Charging flow is provided by three e positive displacement pumps. The discharg header (flow is monitored on the common directed to a Loop A cold leg, PZR aux sp leg. Charging flow also provides reactor water flow. Charging flow rate is controlle	te is to a common header). Flow is ray or Loop C hot coolant pump seal
Core Exit Ter	mperature	787	CET-3	Highest	CET-3 is the highest of the two calcula CET temperature (QSPDS Train A or B) representative CET temperature is the aver eight valid CET temperatures for that trai has 26 CETS, Train B has 25.	. The calculated age of the highest
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0-EPIP-1212	Procedure Title:		—	ncy Operations Facil ctivation and Operat	• • •	Page: 44 Approval Date 9/21/99
				ENCLOSURE 4 (Page 3 of 8)		· · · · · · · · · · · · · · · · · · ·
			ERDADS I	DATA POINT DESC	RIPTIONS	
POINT DESCRIPTI		PT ID	POINT NAME	TYPE CALCULATION	NOTES	
RCS Subcool	ing	854	SMMILO-3	Lowest	The subcooling saturation margin is the (QSPDS Train A and B) calculated RCS s in degrees fahrenheit. The RCS subc margin is calculated using the highest RCS	aturation margins cooling saturation
Reactor Uppe Level	r Head	768	RXHDLVLLO-3	Lowest	Reactor head level consists of the top two set #2) of an eight sensor probe. The probe ext of the head to the top of the fuel align sensor consists of a heated and unheated th temperature difference between the thermo detect a void. Sensor one is 178.8 inches indicated head level when uncovered is 33 141.7 inches above active fuel; indicated uncovered is 0%.	tends from the top nent plate. Each ermocouple. The couples is used to above active fuel; 3%, sensor two is
Reactor Plenu Level	m Water	895	RNPLLVLLO-3	Lowest	Reactor plenum levels consists of the lower eight sensor probe. Each sensor consists unheated thermocouple. The temperature d the thermocouple is used to detect a void. S 4, 5, 6, 7 and 8, when uncovered, indicate 58%, 40%, 28%, 16%, and 0% plenum let location above active fuel is respectively 54.6, 40.1, and 23.7 inches. Note: ser correspond to the top, center and bottom of respectively.	of a heated and lifference between Sensor numbers 3, respectively 81%, vel. Each sensor's 127.6, 98.4, 69.1, nsors 5, 6 and 7
RHR System	Flow	437	FT605-3		FT605 measures the residual heat remo RHR is provided by two RHR pump discharges to its own associated heat exchan the heat exchanger are combined into a penetration into containment. Flow in this by FT-605. Flow is then directed to Loops legs.	s. Each pump nger. Flows from single header for line is measured
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dure No.:)-EPIP-1212	Procedure Title:			y Operations Facili vation and Operati		Page: 45 Approval Date 9/21/99
			1	ENCLOSURE 4 (Page 4 of 8)	•	
			ERDADS DA	TA POINT DESCH	RIPTIONS	
POINT DESCRIPTIO	ON	PT ID	POINT NAME	TYPE CALCULATION	NOTES	
HHSI Flow to Cold Legs	Bit to	452	FT943		FT943 measures HHSI flow to loops A, B a HHSI is provided by two electrically driv water supply is the respective unit's RWST discharge of each pump is directed to its ow The Unit 3 and 4 RWST and discharge hear cross-connected.	en pumps. The (322K gls). The neader. Note:
Containment Temperature		769	CTMTVTMP-3	Average	The containment temperature is the average (TE6700, TE6701, and TE6702). Each ch ohm platinum RTD. All channels are loca elevation at 120 degree intervals. TE670 normal containment cooler, TE6701 is near th containment filters.	annel uses a 200 ated on the 58 ft 20 is near the E ar the 3C norma
Containment I	Pressure	880			Note: Code chooses between current lo instrument values.	w or high range
Containment I	Pressure	865			Note: Code chooses between current lo instrument values.	w or high range
CTMT Hydro Concentration		788	CTMTG2CONC-3	Highest	Two channels of instrumentation are provide of which is being reported. A $\%$ hydeveloped by comparing the thermal reference sample with the conductivity of removing any hydrogen. The system hydrogen alarm at 7.5%, low and high cell f gas low pressure, reagent gas low pressure flow alarms.	drogen signal is conductivity o f a sample afte provides a high ailure, calibration
Steam Gen. A Range Level	Wide	375	LT477-3		The wide range instrument provides for 515 indication. This is equivalent to 750 gallon 27500 gallons at 100% level. The convergallons is (0 to 51.9%, each $\% = 187.5$ gl each $\% = 273.8$ gls); (73 to 100%, each Note: This instrument is cold calibrated.	s at 0% level and ersion from % to s); (52 to 72.9%

Procedure Tit	lie:	0	cy Operations Facilit livation and Operation	• • •	Page 46 Approval Date 9/21/99
			ENCLOSURE 4 (Page 5 of 8)		
POINT DESCRIPTION	PT ID	ERDADS DA POINT NAME	ATA POINT DESCR TYPE CALCULATION		
Steam Gen B Wide Range Level	379	LT487-3		The wide range instrument provides for 516 indication. This is equivalent to 750 gls 27500 gls. at 100% level. The conversion is (0 to 51.9%, each $\% = 187.5$ gls); (52 to 273.8 gls); (73 to 100%, each $\% = 416.6$ instrument is cold calibrated.	at 0% level an from % to gallon 72.9%, each %
Steam Gen. C Wide Range Level	383	LT497-3		This wide range instrument provides for 51 indication. This is equivalent to 750 gls 27500 gls at 100% level. The conversion f is (0 to 51.9%, each $\% = 187.5$ gls); (52 to 273.8 gls); (73 to 100%, each $\% = 416.6$ instrument is cold calibrated.	at 0% level an from % to gallor 72.9% , each %
Steam Generator Pressure A	806	SGA-AVPRES-3	Average	The S/G pressure is an average calculated b sensor algorithm. At least two channels is 120 psi of the calculated rejection value f The sensing line for S/G pressure is local header on the S/G side of the MSIVs. provide for the steam break ESFAS at (S/G of (Header Press) (2/3 for 1/3 S/G) and ESFAS at = 614 psi (2/3 S/G on protection Note: S/G press provides compensation channels.	must agree withit for a valid output ated on the stear These channe press) = 1000 pt low S/G pressur- ion set one only
Steam Gen. Pressure B	808	SGB-AVPRES-3	Average	channels. The S/G pressure is an average calculated sensor algorithm. At least two channels in 120 psi of the calculated rejection value for The sensing line for S/G pressure is local header on the S/G side of the MSIVs. provide for the steam break ESFAS at (S/G of (Header Press) (2/3 for 1/3 S/G) and ESFAS at = 614 psi (2/3 S/G on protect Note: S/G press provides compensation channels.	nust agree withi for a valid output ated on the stear These channe press) = 1000 p low S/G pressui ion set one only

cedure No.:	Procedure Title:					Page 47
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	· · · · · · · · · · · · · · · · · · ·			ENCLOSURE 4 (Page 6 of 8)		
			ERDADS DA	TA POINT DESCH	RIPTIONS	
POINT DESCRIPTI	ON	PT ID	POINT NAME	TYPE CALCULATION	NOTES	
Steam Genera Pressure C	ator	810	SGC-AVPRES-3	Average	The S/G pressure is an average calculated b sensor algorithm. At least two channels r 120 psi of the calculated rejection value f The sensing line for S/G pressure is loca header on the S/G side of the MSIVs. provide for the steam break ESFAS at (S/G of (Header Press) (2/3 for 1/3 S/G) and ESFAS at = 614 psi (2/3 S/G on protecti Note: S/G press provides compensation to channels.	nust agree within or a valid output ited on the steam These channels press) – 1000 ps low S/G pressure on set one only)
Containment (WR)	Radiation	790	CTMHRADW-3	Highest	CTMHRADW is the highest of the two inper- RAD6311A and RAD6311B. Both ch chamber detectors. RAD6311 is located in on the 25 ft elevation near the personnel ha is located at about the 64 ft. elevation of th near the pressurizer arms channel R-2. Th two high alarm setpoints. On a high alarm will be actuated.	annels used io nside containmer atch. RAD63111 ae S/G shield wa ese channels hav
Refueling Wa Level	iter Tank	844	RWSTLOLVL-3	Lowest	Each RWST level loop consists of a Rosem transmitter and Foxboro modules to pr indication functions. Alarms provided are: 60,000 gallons, low level at 155,000 gal level at 322,000 gallons, and high level at 3	ovide alarm an low-low level a
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EPIP-1212 Activation and Operation 9/21/99 ENCLOSURE 4 (Page 7 of 8) ENCLOSURE 4 (Page 7 of 8) EDADS DATA POINT DESCRIPTIONS POINT DESCRIPTION PT D POINT NAME TYPE CALCULATION NOTES Aux-Feedwater Flow A SG 821 SGAFWFLO-3 Sum The AFW flow is the sum of trains one and two for each S/ The aux feed is supplied by three steam driven pumps whild discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/GS. Administrative Pump A is aligned to Train one Pump B and C to Train two SG Aux Feedwater Flow B SG 824 SGBAFWFLO-3 Sum The AFW flow is the sum of trains one and two for each S/ The aux feed System. Aux Feedwater Flow C SG 827 SGCAFWFLO-3 Sum The AFW flow is the sum of trains one and two for each S/ The condensate storage tanks (250K, gis ea) are th normal supply to the Aux Feed System. Aux Feedwater Flow C 827 SGCAFWFLO-3 Sum Aux Feedwater Flow C 827 SGCAFWFLO-3 Sum Aux Feedwater Flow C 827 SGCAFWFLO-3 Sum The ArW flow is the sum of trains one and two for each S/ The aux feed is supplied by three steam driven pumps whid discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/GS. Administrative Pump A is aligned to train once	ure No.:	Procedure Title:		•	y Operations Facili		Page 48 Approval Date
(Page 7 of 8) ERDADS DATA POINT DESCRIPTIONS POINT PT POINT TYPE DESCRIPTION B21 SGAFWFLO-3 Sum The AFW flow is the sum of trains one and two for each S/C The aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flow to both units and may feed any of the S/Gs. Administrative: Pump A is aligned to Train one Pump B and C to Train two The condensate storage tanks (250K gls ea) are the norm supply to the Aux Feed System. Aux Feedwater Flow B 824 SGBAFWFLO-3 Sum The AFW flow is the sum of trains one and two for each S/C The aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flow to both units and may feed any of the S/Gs. Administrative pump A is aligned to Train one: Pumps B and C to Train two. The condensate storage tanks (250K gls ea) are the norm supply to the Aux Feed System. Aux Feedwater Flow C 827 SGCAFWFLO-3 Sum The AFW flow is the sum of trains one and two for each S/C The aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flow to both units and may feed any of the S/Gs. Administrative pump A is aligned to Train one: Pumps B and C to Train two. The condensate storage tanks (250K gls. ea.) are the norm the aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flow to both units and may feed any of the S/Gs. Administrative pump A is aligned to two redundant trains. Each train supplies flow to bothunits and may feed any of the S/Gs. Administ	•EP1P-1212			Act	ivation and Operation	on	9/21/99
POINT DESCRIPTIONPT IDPOINT NAMETYPE CALCULATIONNOTESAux-Feedwater Flow A SG821SGAFWFLO-3SumThe AFW flow is the sum of trains one and two for each S/C The aux feed is supplied by three steam driven pumps whic discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Gs. Administrative Pump A is aligned to Train one Pump B and C to Train two The aux feed is supplied by three steam driven pumps whic discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Gs. Administrative Pump A is aligned to Train one and two for each S/C The aux feed is supplied by three steam driven pumps whic discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Gs. Administrative pump A is aligned to Train one; Pumps B and C to Trai two. The condensate storage tanks (250K gls ea) are the normal supply to the Aux Feed System.Aux Feedwater Flow C SG827SGCAFWFLO-3SumThe AFW flow is the sum of trains one and two for each S/C The aux feed is supplied by three steam driven pumps whic discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Gs. Administrative pump A is aligned to Train one; Pumps B and C to Trai two. The condensate storage tanks (250K gls ea) are the normal supply to the Aux Feed System.Aux Feedwater Flow C SG827SGCAFWFLO-3SumThe AFW flow is the sum of trains one and two for each S/C The aux feed is supplied by three steam driven pumps whic discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Gs. Administrative pump A is aligned to train one; Pump B and C to train two the aux feed i							
DESCRIPTIONIDNAMECALCULATIONNOTESAux-Feedwater Flow A SG821SGAFWFLO-3SumThe AFW flow is the sum of trains one and two for each S/C The aux feed is supplied by three steam driven pumps whic discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Os. Administrative Pump A is aligned to Train one Pump B and C to Train two. The condensate storage tanks (250K gls ea) are the norm supply to the Aux Feed System.Aux Feedwater Flow B SG824SGBAFWFLO-3SumThe AFW flow is the sum of trains one and two for each S/C The aux feed is supplied by three steam driven pumps whic discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Os. Administrative pump A is aligned to Train one; Pumps B and C to Train two. The condensate storage tanks (250K gls ea) are th normal supply to the Aux Feed System.Aux Feedwater Flow C SG827SGCAFWFLO-3SumThe AFW flow is the sum of trains one and two for each S/C The aux feed is supplied by three steam driven pumps whic discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Os. Administrative pump A is aligned to Train one; Pumps B and C to Train two. The condensate storage tanks (250K gls ea) are th normal supply to the Aux Feed System.Aux Feedwater Flow C SG827SGCAFWFLO-3SumAux Feedwater Flow C SG827SGCAFWFLO-3SumAux Feedwater Flow C SG827SGCAFWFLO-3SumAux Feedwater Flow C SG827SGCAFWFLO-3SumAux Feedwater Flow C SG827SGCAFWFLO-3Sum <td></td> <td></td> <td></td> <td>ERDADS DA</td> <td>ATA POINT DESCR</td> <td>RIPTIONS</td> <td></td>				ERDADS DA	ATA POINT DESCR	RIPTIONS	
Flow A SGFlow A SGThe aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Gs. Administrative Pump A is aligned to Train one Pump B and C to Train two The condensate storage tanks (250K gls ea) are the norm supply to the Aux Feed System.Aux Feedwater Flow B SG824SGBAFWFLO-3SumThe AFW flow is the sum of trains one and two for each S/C The aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Gs. Administrative pump A is aligned to Train one; Pumps B and C to Train two. The condensate storage tanks (250K gls ea) are the normal supply to the Aux Feed System.Aux Feedwater Flow C SG827SGCAFWFLO-3SumAux Feedwater Flow C SG827SGCAFWFLO-3 <th></th> <th>ON</th> <th></th> <th></th> <th></th> <th>NOTES</th> <th></th>		ON				NOTES	
SGSGThe aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Gs. Administrative pump A is aligned to Train one; Pumps B and C to Train two. The condensate storage tanks (250K gls ea) are the normal supply to the Aux Feed System.Aux Feedwater Flow C827SGCAFWFLO-3SumAux Feedwater Flow C827SGCAFWFLO-3Aux Feedwater Flow C827SGCAFWFLO-3Aux Feedwater Flow C827SGCAFWFLO-3Aux Feedwater Flow C827 <td></td> <td>er</td> <td>821</td> <td>SGAFWFLO-3</td> <td>Sum</td> <td>The aux feed is supplied by three steam dri discharge to two redundant trains. Each the to both units and may feed any of the S/Gs. Pump A is aligned to Train one Pump B and The condensate storage tanks (250K gls e</td> <td>ven pumps whic rain supplies flo Administrative d C to Train two</td>		er	821	SGAFWFLO-3	Sum	The aux feed is supplied by three steam dri discharge to two redundant trains. Each the to both units and may feed any of the S/Gs. Pump A is aligned to Train one Pump B and The condensate storage tanks (250K gls e	ven pumps whic rain supplies flo Administrative d C to Train two
SG The aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flo to both units and may feed any of the S/Gs. Administrative Pump A is aligned to train one, Pump B and C to train two The condensate storage tanks (250K gls. ea.) are the norm		er Flow B	824	SGBAFWFLO-3	Sum	The aux feed is supplied by three steam dri discharge to two redundant trains. Each tu to both units and may feed any of the S/Gs. pump A is aligned to Train one; Pumps I two. The condensate storage tanks (250)	ven pumps whic rain supplies flor Administrativel B and C to Trai
		er Flow C	827	SGCAFWFLO-3	Sum	The aux feed is supplied by three steam dri discharge to two redundant trains. Each to to both units and may feed any of the S/Gs. Pump A is aligned to train one, Pump B and The condensate storage tanks (250K gls. each storage tanks)	ven pumps which rain supplies floo Administrative and C to train two

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			ENCLOSURE 4 (Page 8 of 8)		
POINT	РТ	ERDADS D. POINT	ATA POINT DESCH TYPE	RIPTIONS	
DESCRIPTION	iD	NAME	CALCULATION	NOTES	
Condensate Storag Tank Level	e 843	CSTLOGAL-3	Minimum	Lowest of the two tank level transmitters is used.	
Stm Dump to ATN Stm Gen A	1 OS 630	CV1606		Valve stem contact switch provides for a closed or n indication.	ot closed
Stm Dump to ATN Stm G B	1 OS 631	CV1607			
Stm Dump to ATN Stm G C	1 OS 600	CV1608			
Pressurizer PORV PT444	from H20	PCV455C		Valve position is calculated from current status of the valve position switches. Calculation will give on results based on the two input switches. Positions a Failed, Open, Closed, and Throttled.	e of four
Pressurizer PORV PT445	from H21	PCV456			

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ENCLOSURE 5 (Page 1 of 2)

GUIDELINES ON BRIEFING THE MEDIA

Information should be verified for accuracy prior to being released to the media.

Acronyms and power plant terminology should not be used during media briefings.

Media briefings should be held at set times whenever possible. If they are to be delayed, a courtesy announcement should be provided to the media.

EIM and PIOs should attend the briefing for the entire duration. If they must be excused, an explanation should be given to limit media confusion.

If press releases are passed out in a briefing, they should be addressed and explained to the media.

Conferring amongst the EIM, ECO, and PIOs while in front of the media is distracting and should be avoided.

Know what your main messages are before the briefing and emphasize their importance during your delivery.

Stick to the agenda; maintain control.

Try to begin and end the interview with a summary of your main message.

Try not to use phrases such as That's a good question, or I'm glad you asked that unless you need a few seconds to compose an answer.

Simplify technical explanations; try to relay the message in laymans terms.

Don't refer to the competition, even when asked. Speak only for your company or organization. If the story concerns an interview about your industry at-large, be certain you are the proper person to comment.

If you must own up to unfavorable facts, acknowledge them in a gracious, fair manner, such as, **Certainly there are instances of unethical behavior in every profession**, then quickly move on.

Do respond in a sincere, direct and cooperative manner.

Keep it short and keep it simple.

Listen carefully to the question; it it's negative, answer in the positive whenever possible.

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ENCLOSURE 5 (Page 2 of 2)

GUIDELINES ON BRIEFING THE MEDIA

Back up a claim you make with facts and stick to the facts.

Speak from the viewpoint of the public's interest.

When necessary, say I don't know, but I'll try to find out for you.

Be aware that everything you say is subject to being quoted – before, during and after your interview or news conference.

Do not speculate; never guess; avoid what if questions.

Don't talk off the record, there is no such thing.

Don't argue, get angry, ramble, joke or act superior.

Don't use the term no comment, offer a brief explanation, if appropriate, such as: that hasn't been determined, or we don't disclose that kind of information (i.e., customer or employee specific information).

Don't try to fool a reporter or indicate you know something you don't; be honest.

Avoid calling a reporter by name in a news conference that's being taped; it may keep competing broadcasters from using your answer.

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	Emerge	ency Operatio	ns Facility (EOF)	52 Approval Date:
0-EPIP-1212	A	Activation and	Operation	5/31/00
 A. THIS IS A D A. Time/Date conta C. Message Number SITE A. CRIST 	DA NUCLEAR PI RILL B.	ATTACHM (Page 1 o LANT EMER HIS IS AN ACTUA B. B. D. B. ST LU C. ST LU	ENT 1 of 3) GENCY NOTIFICAT AL EVENT Reported by: (Name/Titl Reported from: Co JCIE UNIT 1 D. TUF JCIE UNIT 2 E. TUF	FION FORM le) ontrol Room
			DATE	
7. ADDITIONAL INFORM	MATION OR UPDATE:	i 	· · · · · · · · · · · · · · · · · · ·	
 9. WEATHER DATA: 10. <u>RELEASE STATUS:</u> 11. <u>OFFSITE RELEASE S</u> A. Information B. Release with C. Non-Signific 	A. Wind direction from B. Downwind Sectors A. Downwind Sectors A. No Release (G B. A Release is o SIGNIFICANCE CATE not available at this tin thin normal operating li	mdeg s Affected (minimu Go to Item 12) occurring GORY (at the Site me imits (\leq 2.8 ci/sec i Range (release is $>$	nrees. m of 3):,,, C. □ A Release occ <u>Boundary)</u> noble gas, ≤ 3.7 E-4 ci/sec i	urred, but stopped
12. UTILITY RECOMM	ENDED PROTECTIVE	ACTIONS	· · · · · · · · · · · · · · · · · · ·	
A. 🗌 NONE OF	EVACL	TER ZONES/AREA JATE ZONES/ARI <u>NO ACTION</u>	AS:(Not for FPL Use) EA:(Not for FPL Use) EVACUATE SECTORS	SHELTER SECTORS
13. <u>HAS EVENT BEEN</u>	TERMINATED ?:	A. 🗋 NO	B. 🗌 YES Time	Date
EC or R	L FORM IS ATTACHE M Approval Signature EIVED BY: Name	e		Date Date

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Procedure No.:	Procedure Title:		······································	Page: 53				
	Emergency Operations Facility (EOF) Approval Date:							
0-EPIP-1212	Act	5/31/00						
ATTACHMENT 1 (Page 2 of 3) FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM SUPPLEMENTAL DATA SHEET The following supplemental data is to be completed after the TSC or EOF is declared operational at Alert								
of higher Supplement			MATION	-				
CRITICAL SAFETY FUNCTIONS A. REACTOR SHUTDOWN? B. CORE ADEQUATELY COOLED? YES NO C. ADEQUATE EMERGENCY POWER AVAILABLE (DIESELS) YES NO FISSION PRODUCT BARRIER STATUS: (Check one condition for each barrier)								
BARRIER		CHALLENGED	V LOST.					
FUEL CLADDING	No indication of clad damage	Clad is intact but losing subcooling, water level, etc.	Clad has failed, indicated by high temps., high containment rad, etc	Cooling restored, no further degradation expected				
PRI. REACTOR COOLANT SYSTEM	Leakage is within normal charging or makeup pump capacity	Leakage is within safety injection capacity	Leakage exceeds safety injection capacity	Leakage reduced to within Injection capacity (system repaired)				
CONTAINMENT	No evidence of containment leakage or tube rupture release is only through condenser	No leakage but containment pressure is at or above safety system actuation points	Evidence of containment leakage (known release path or rad surveys)	Repair Efforts have isolated leak or containment pressure has reduced to stop leakage				
COMPLETED BY:_	TIME:	:C	DATE:					
RADIOLOGICAL DOSE ASSESSMENT DATA 1. RELEASE STATUS: A. I No Release (no further data required) C. A Release occurred, but stopped B. A Release is occurring								
B. DIODINES: 3. <u>TYPE OF RELEAS</u>	A. NOBLE GASES: Curies per second Measured Default B. IODINES: Curies per second Measured Default 3. <u>TYPE OF RELEASE:</u> B. LIQUID Time/Date started:							
_	Time/Date stoppe	d:	Time/Date s	topped:				
4. <u>PROJECTED OFFSITE DOSE RATE:</u> <u>DISTANCE</u> <u>THYROID DOSE RATE (CDE)</u> <u>TOTAL DOSE RATE (TEDE)</u>								
1 Mile (Site Boundary) 2 Miles			Bn					
5 Miles	C E		Dn Fn					
10 Miles	G		Нп					
5. WEATHER DATA (used for the above data	<u>a):</u>						
A. Wind Direction from								
B. Wind Speed								
C. Stability Class		TIME						
COMPLETED BY: Emergency Coordinator								
F-439:2/3		· 4-14-14-14-14-14-14-14-14-14-14-14-14-14						

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FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM

METEOROLOGICAL WORKSHEET

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARs should be L, M, N and P.

SECTOR INFORMATION:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348-11	S	НЈК
(B)	NNE	11-33	SSW	JKL
[C]	NE	33-56	SW	KLM
[D]	ENE	56-78	WSW	LMN
[E]	E	78-101	W	MNP
[F]	ESE	101-123	WNW	NPQ
[G]	SE	123-146	NW	PQR
[H]	SSE	146-168	NNW	QRA
[J]	S	168-191	N	RAB
[K]	SSW	191-213	NNE	ABC
[L]	SW	213-236	NE	BCD
[M]	WSW	236-258	ENE	CDE
[N]	W	258-281	E	DEF
[P]	ŴNW	281-303	ESE	EFG
[Q]	NW	303-326	SE	FGH
[R]	NNW	326-348	SSE	GHJ

STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See 0-EPIP-20126, Off-site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY:

Stability <u>Classification</u>	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta <u>Range (Degrees)</u>
Extremely unstable	Α	ΔT ≤ -1.7	ST ≥ 22.5
Moderately unstable	В	-1.7 <∆T ≤ -1.5	22.5 > ST ≥ 17.5
Slightly unstable	С	-1.5 <∆T ≤ -1.4	17.5 > ST ≥ 12.5
Neutral	D	-1.4 <ΔT ≤ -0.5	12.5 > ST ≥ 7.5
Slightly stable	Е	-0.5 <∆T ≤ +1.4	7.5 > ST ≥ 3.8
Moderately stable	F	+1.4 <ΔT ≤ +3.6	3.8 > ST ≥ 2.1
Extremely stable	Ğ	+3.6 <ΔT	2.1 > ST

Meteorological information needed to fill out the Florida Nuclear Plant Emergency Notification Form is available from the Dose Calculation Worksheet (0-EPIP-20126). The Worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.

F-439:3/3

				Eme	roo	nev Ön	eration	s Facility (EC)F)			55 oval Date:	5
0-I	CPIP-1212				-			Operation			Appr	5/31/	/00
			I	EVEN	гл	(Pa	CHME ge 1 of		FFT				
NR	C FORM 361	<u></u>						US NI			ULATORY (TER	COMMISS	ION
NO	TIFICATION TI	ИE	FACILIT					CALLER'S NAM			CALL BA	CK: EN	s
EVE	ENT TIME & ZO	NE	EVENT D	DATE	11	-Hr Non-E	mergency	1 /		(v)	Lost Offs	ite Comm	15
				. /		0 CFR 50.				(vi)	Fire		
			<u> </u>			(i) (A) 1	rs Requir	ed S/D		(vi)	Toxic Ga	s	
POW	ER MODE BEFORE		POWER MC	DE AFTER		(i)(B) 1	IS Deviati	on		(vi)	Rad Rele	ase	
						(iii) C	Degraded	Condition		(vi)	Other Ha	mpering 8	Safe (
<u></u>						(ii) (A) L	Jnanalyze	ed Condition			4-Hr Non	-	-
	Event	Classifi	cations		Τ	(ii) (B) (Dutside D	esign Basis			10 CFR 5	0.72 (b) (2	2)
					Г	(II) (C) N	lot Cover	ed by OPs/EOPs		(1)	Degrade	While S/D)
Т	GENERAL EM	ERGE	NCY		1-	(iii) E	Earthquak	(e		(11)	RPS Act	ation (Sc	ram)
1	SITE AREA EN	ERGE	NCY		1	(ili) F	lood	<u>.</u>		(11)	ESF Actu	ation	
+	ALERT					(iii) Hurricane			-1-	(iii) (A) Safe S/D Capability			
╈	UNUSUAL EVE	ENT			1-	(111) 14	ce/Hall		-1-		(B) Rhr Ca		
T	50.72 NON-EM	ERGE	NCY		1-	(ili) L	ightning				(C) Contro		Releas
+	PHYSICAL SE	CURIT	Y (73.71)		1-	(iii) T	ornado			(iii)	(D) Accide	nt Mitigat	lon
+	TRANSPORTA	TION				(iii) C	Other Nati	ural Phenomenon			(A) Air Rel		
+	20.403 MATER	IAL/E)	POSURE		1-	(iv) E	CCS Dis	charge to RCS		<u> </u>	(B) Liq Rei		
+	OTHER				1-	(v) L	ost ENS	· · · · · · · · · · · · · · · · · · ·		(v)		Medical	
╈					+-		ost Emer	g. Assessment		(vi)	Offsite	Notificati	ion
سالحم						L	CRIPTI			L			
Inclu	ude: Svstems af	fected	. actuation	s & their i	nitiat	ing signals	, Causes	effect of event on	plant. ec	tions +	aken or nie	nned etc.	
NOT	TFICATIONS	YES		WILL				UNDERSTOOD?			YES	NO	
_	RESIDENT			BE	Din A	I SAGAET	EIMOTION				(Explain above)	-	
STA	TE(s) AL				UIU A	ul ștsiems	PUNCTION	AS REQUIRED?			YES	NO (Explai	n abovi
	IER GOV INCIES					E OF OPERAT		ESTIMATE FOR RESTART DATE:				ADDIT	ON INF

ocedure No.:	Pro	ocedure Title:		- · · · · · · · · · · · · · · · · · · ·		-			Pa	ge:	56	
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		F18.771		ATTACI (Page	2 of 2	2)					·	
NRC FORM 361		EVE	NI	NOTIFICA'			KKSHEEI		USNRC OP	ERAT	IONS CENTER	
RADIOLOGICAL	RELEASES	S CHECK OR FIL	LIN		S (spec	fic detail	s/explanations	shoul	d be covered	in eve	nt description)	
LIQUID RELEASE		OUS RELEASE		UNPLANNED RELEA	_		NED RELEASE		ONGOING		TERMINATED	
MONITORED	UNMO	NITORED		OFFSITE RELEASE		T.S. E	XCEEDED		RM ALARMS		AREAS EVACUATE	
PERSONNEL EXPOS	ED OR CON	TAMINATED		OFFSITE PROTE		TIONS RE	COMMENDED		*State rele	ase pa	th in description	
							T				- <u>r</u>	
		Release Ra (Cl/sec)		% T.S. LIMIT	ноо	GUIDE	Total Activi	ty (C	i) % T.S.	LIMIT	HOO GUIDI	
Noble Gas	· · · · ·	ļ				Cl/sec	ļ				1000 Ci	
lodine		<u> </u>	<u></u>			Ci/sec	 				0.01 Cl	
Particulate	-141	<u> </u>			1 u(Ci/sec						
Liquid (excluding t dissolved noble ge						Cl/min					0.1CI	
Liquid (fritium)					0.2 (ci/min					<u>5 Ci</u>	
		PLANT STA	CK	CONDENSER	/AIR EJI	ECTOR	MAIN STEA LINE	M	SG BLOWI	ww	OTHER	
RAD MONITOR REA	DINGS:			<u> </u>								
ALARM SETPOINTS: % T.S. LIMIT (If appl	ie eble)	<u> </u>									-	
RCS OR SG TUBE LEAK LOCATION OF THE					ataiis/ex	planatio	ns should be co	vered	d in event des	criplic	n)	
LEAK RATE:	UNITS	S: gpm/gpd	1.5	5. Umits:		ຣບ	dden or Lon	ig te	RM DEVELO	PMEN	T:	
LEAK START DATE:		TIME:	C	DOLANT ACTIVIT	Y & UN	ts: Prin	IARY -			SEC	ONDARY -	
LIST OF SAFETY RELA	TED EQU	IPMENT NOT O	PER/	ATIONAL:					_			
			EVE	INT DESCRIPTION	(Conti	nued fro	om front)					
42/1 2												
43/1:2		. 12										

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INJURED PERSON REPORT

Name:	Employer:)	JOB DESCRIPTION:			
TIME INJURED: TIME REPC		rted:	NATURE OF INJURY:				LOCATION WHERE INJURY OCCURRED:			
	WHAT BODY PARTS CONTAMINATED?		Level of Contaminatio					DPMCPM DPMCPM DPMCPM		
	PITAL?	HOW TRAN	ISPORTED?	NAME OF	HOSPI	FAL OR OTH	ER LOCA	TION		
ACTIVITY AT THE TIME	INJURY OC	CURRED		CURREN	T MEDIC	CAL CONDIT	ION			
MISC. INFO										

Name:				other	JOB DESCRIPTION:			
TIME INJURED:	TIME REPORTED:	NA	TURE OF INJURY	<i>!</i> :		LOCATION WHE	RE INJURY OCCURRED:	
IS THE VICTIM CONTAMINATED? WHAT BODY PART CONTAMINATED?			of AREA			_LEVEL DPMCPM _LEVEL DPMCPM _LEVEL DPMCPM		
		но	HOW TRANSPORTED?			NAME OF HOSP LOCATION	ITAL OR OTHER	
ACTIVITY AT THE TIME	E INJURY OCCURRED	0		CURRE	NT MEDICA	L CONDITION		
MISC. INFO								

Procedure No.:

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EMERGENCY PLAN SECURITY CHECKLIST

ITEM	EVENT/ACTION	START TIME	FINISH TIME
1	TYPE OF EVENT	N/A	N/A
A	LOCAL AREA EVACUATION		
В	CONTROL ROOM EVAUATION		
	S/O POSTED AT D840	N/A	
С	UNUSUAL EVENT		N/A
D	ALERT - PATROL DISPATCHED FOR OCA NOTIFICAITON		N/A
	SCHOOL/TRAINING/WELLNESS COMPLEX NOTIFIED	N/A	
	BOAT RAMP SIGNS POSTED/PERSONNEL NOTIFIED	N/A	
	RED BARN/SCOUT CAMP NOTFIED	N/A	
	SWITCHYARD PERSONNEL NOTIFIED	N/A	
	PERSONNEL IN TRAILERS SOUTH OF CRF NOTIFIED	N/A	
	PERSONNEL IN LAYDOWN AREA NORTH OF CRF NOTIFIED	N/A	
	FOSSIL CONTROL ROOM NOTIFIED	N/A	
	OCA NOTIFICAITONS COMPLETE	N/A	
E	SITE AREA MERGENCY		N/A
F	GENERAL EMERGENCY		N/A
2	DISPATCH SUPERVISOR AND S/O TO OPEN TSC		N/A
Α.	TSC POSTED	N/A	
3	DISPATCH 2 S/Os TO OPEN OSC		N/A
Α	OSC POSTED	N/A	
4	TSC SECURITY SUPERVISOR POSTED IN TSC	N/A	

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Emergency Operations Facility (EOF) Activation and Operation

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ATTACHMENT 4 (Page 2 of 3)

EMERGENCY PLAN SECURITY CHECKLIST

ITEM	EVENT/ACTION	START TIME	FINISH TIME
5	EVACUATION ROUTEPRIMARYALTERNATE	N/A	N/A
A	PRIMARY EVACUATION ROUTE	N/A	N/A
	DISPATCH S/O TO PRIMARY OSAA		N/A
	DISPATCH S/O TO FPL PROPERTY LINE		N/A
	S/O POSTED AT PRIMARY OSAA	N/A	
	S/O POSTED AT FPL PROPERTY LINE	N/A	
	S/O AT PROPERTY LINE RELOCATED TO LLEA CONTROL POINT	N/A	
В	ALTERNATE EVACUATION ROUTE	N/A	N/A
	DISPATCH S/Os TO TOWER GATE AND ALTERNATE OSAA		N/A
	S/O POSTED AT TOWER GATE	N/A	
	S/O POSTED AT ALTERNATE OSAA	N/A	
	S/O POSTED AT CARD SOUND ROAD	N/A	
6	PA ACCESS RESTRICTED TO ERD PERSONNEL		N/A
7	VISITORS DIRECTED TO LEAVE PA		N/A
Α	VISITORS ACCOUNTED FOR	N/A	
8	CONTRACTOR PERSONNEL DIRECTED TO LEAVE PA		N/A
A	CONTRACTOR PERSONNEL ACCOUNTED FOR	N/A	
9	PA EVACUATION DIRECTED		N/A
Α	ACCOUNTABILITY STARTED		N/A
В	INITIAL ACCOUNTABILITY COMPLETED	N/A	
С	ALL PERSONNEL ACCOUNTED FOR	N/A	
D	RCA SWEEPS STARTED		N/A
E	RCA SWEEPS COMPLETED	N/A	
F	PA SWEEPS STARTED		N/A
G	PA SWEEPS COMPLETED	N/A	

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Emergency Operations Facility (EOF) Activation and Operation

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EMERGENCY PLAN SECURITY CHECKLIST

ITEM	EVENT/ACTION	START TIME	FINISH TIME
10	SAFEGUARDS	N/A	N/A
A	MODIFIED		N/A
В	SUSPENDED		N/A
С	SAS CLOSED	N/A	
D	CAS CLOSED	N/A	
E	N.E.B CLOSED	N/A	
11	EVACUATION OF SECURITY PERSONNEL	N/A	N/A
A	NON-ESSENTIAL SECURITY EVACUATION STARTED		N/A
В	NON-ESSENTIAL SECURITY EVACUATION COMPLETED	N/A	
12	SECURITY ACCESS BUILDINGS	N/A	N/A
A	MTG CLOSED	N/A	
В	WTG CLOSED	N/A	
13	SECURITY EQUIPMENT	N/A	N/A
A	WEAPONS SECURED	N/A	
В	KEYS SECURED	N/A	
14	RESTORATION OF SAFEGUARDS BEGUN		N/A
15	RESTORATION OF SAFEGUARDS COMPLETE	N/A	

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	(P	ACHMENT 5 age 1 of 1)	
	INEERING TECHNI	ICAL RESPONSE WORKSH	EET
SUBJECT			
DATE & TIME RECE	IVED	REQUESTER	
REQUEST			
RESPONSE			
		BY	CHECKED
		EMERGENCY TE	CHNICAL MANAGER
		DATE & TIME:	

-

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					EOF ACCESS LOG							
Day of Week	Month	Day	Year						Sheet # of			
TIME IN	TIME OUT (optional)	PR	INT NAM	E	DEPARTMENT OR COMPANY	ERO POSITION OR COAMPANY TITLE		YOU FIT DUTY?***	*			
					·····		Yes	No	Initial			
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Procedure No.:		Procedure Title:	FI	ELD M		Ac	tivat ATT	peration ion and ACHMI (Page 1 of D PLUN	Op EN of 4	eration F 7		RESULTS				Page: 63 Approval Date 5/31/00
	·											RESULT			/ /ii	
SAMPLE		MPLE SITE DATA	MILES		DOWN WIND			EY RESULTS				OJECTIONS		RATIO:	PIELD PROJ	
TIME	SURVEY TEAM	REFERENCE LOCATION	PLANT	PLANT	DIRCTN	PLUME (DDE) mR/Hr	ן בשו 77	THYROID (CDE) mREM/Hr	ę	PLUME (DDE) mR/Hr	THYROID (CDE) mREM/Hr	PLUME E.T.A. WIND M.P.H.	PRINT OUT	PLUME (DDE)	THYROID (CDE)	NOTES/COMMENTS
	+															
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Emergency Operations Facility (EOF) Activation and Operation

ATTACHMENT 7 (Page 2 of 4)

FIELD MONITORING AND PLUME PROJECTION RESULTS

Guidance for Completing the FIELD MONITORING AND PLUME PROJECTION RESULTS FORM

<u>SAMPLE TIME</u> – Time of sample acquisition

SURVEY TEAM - FPL teams, team named by TSC

SAMPLE SITE DATA – Location of sampling activities

<u>REFERENCE LOCATION</u> - Used only if at a pre identified location; those locations on the survey maps

MILES FROM PLANT - Best approximation from map; plant to survey location

DIRECTION FROM PLANT - Compass degrees from plant to survey location

DOWNWIND DIRECTION - The indicated, at plant, downwind direction at the time of sampling

(the difference between direction from plant and downwind direction yields a relative to centerline distance)

FIELD SURVEY RESULTS

- Plume (DDE) mR/Hr Team will report the Deep Dose Equivalent (DDE) meter reading
- I uCi/cc Team reports Iodine 131 concentration
- Thyroid (DCE) mRem/Hr Team reports thyroid dose rate
- CL Enter Y if the team is on the centerline, i.e., the direction from plant = downwind direction

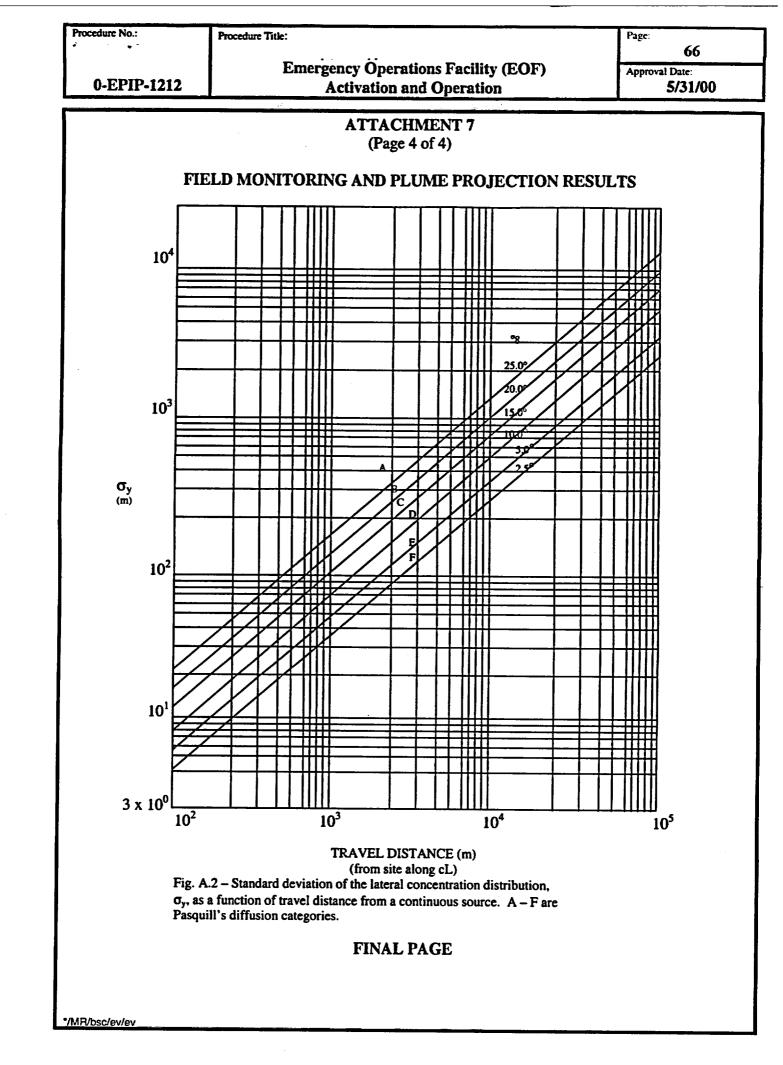
PLUME PROJECITONS -

Determine the printout to be used for comparison as follows:

- a. Divide the field Monitoring Team MILES FROM PLANT by the average wind speed, answer is hours
- b. Subtract the hours from the actual SAMPLE TIME, this estimates the release time of day for the portion of the plume being sampled.
- c. Select the latest printout that has a release Observation time before the estimated time of day
- d. From that printout, Enter the plume DDE, Thyroid CDE and printout #
- e. Enter the average wind speed used above for WIND M.P.H.
- <u>RATIO</u>-i. IF the team sampled centerline at 1, 2, 5, 7.5, 10, 15, 20, 25 miles OR at a predesignated sampling location, THEN the ratios are the Team Values divided by the Printout Values.
 - ii. IF the team is off centerline (e.g., left or right) THEN a centerline value may be estimated using Relationship 2. (1609 meters = 1 mile)
 - iii. IF the team is not at one of the distances noted in i, above, THEN a value at one of those distances may be estimated using Relationship 1.

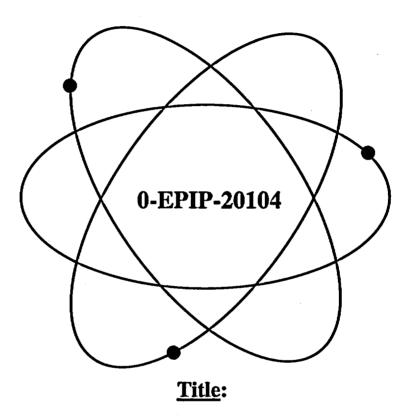
*/MR/bsc/bc/ev

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				·					
	ELD MO	JNITOR	ING AND PI	LUME PROJEC	TION RESUL	TS			
. Action									
			TIFY HPM		Possible Class	sification	1		
			imes or < 1/2 proje at 1 mile site bour		Alert				
				release >1/2 hr., or					
• >500 n	nR/hr DDE o	or >2500 mR	em/hr Thy. (CDE) I	or release >2 min.	Site Area Emerge	ncy			
• >1 R/h	r DDE or >5	Rem/hr Thy	. (CDE) at 1 mile si		General Emergen				
			(SOI	JRCE - RADIOLOGICA	L EMERGENCY PL	AN)	4		
Allowable F	ield Team D	ose – 3 R Di	DE, 25 Rem Thyroi	d (CDE)	(Source - 0-EPIP-	20129)			
Dose Conve	ersion - Fiel	d Measured	l-131 μCi/cc x 1.72		d Thy Dose rate mF	lem/hr.	1		
					OURCE - 0-EPIP-20	129,			
							-		
Relationship	and the second se			rom Field Sample					
Dose at dr	iterent dista	nce from Pla	nt	. Dose	at distance from Ce	interLine			
Estimated Dose = Given [Dose	Given Dos	e Distance	Off CenterLine	CenterLine	-1/2	1 41		
		Estimated D	ose Distance	Dose Value	= Dose Value		$\left\langle \frac{\sigma_{1}^{2}}{\sigma_{1}^{2}}\right\rangle$		
Where	e X S	tability Class	1						
	2.0	A or B	5	Where:	y = distance off Cen	terLine (m)			
	1.5 1.0	C or D E or F			$\sigma_{r} = value from tal$	ble in			
				Source reference (m) Graph on next page					
(SOURCE -	EPA 520/1-	75-001-a Re	v 10/91)	(SOURCE - Meteoro	logy and Atomic En	argy 1968, D.G.	Slade)		
			Sector D	istances					
			Sectors						
			1 mile = 5280 ft.	or 1609 meters					
			Circle	Sector					
			Radius (Afilos)	Arc Length					
			(Miles) 0.5	(feet / meters) 1037/316					
			1	2073/632					
			2	4146/1264					
			3 4	6219/1896 6292/2528					
			5	10365/3160					
				,-,,-,-					



Florida Power & Light Company

Turkey Point Nuclear Plant



Emergency Response Organization Notifications/Staff Augmentation

Safety Related Procedure						
Responsible Department:	Emergency Preparedness					
Revision Approval Date:	5/31/00					
Periodic Review Due:	7/30/01					
Implementation Date:	6/1/00					

RTSs 96-0772P, 00-0248P

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Emergency Response Organization Notifications/Staff Augmentation

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9	05/31/00
10	05/31/00
11	05/31/00
12	05/31/00
13	05/31/00
14	05/31/00
15	05/31/00
16	05/31/00
. 17	05/31/00
18	05/31/00
19	05/31/00
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Emergency Response Organization Notifications/Staff Augmentation

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	Florida Nuclear Plant Emergency Notification Form	21

0-EPIP-20104 Emergency Response Organization Notifications/Staff Augmentation Approval Date: 5/31/00 1.0 PURPOSE 1.1 This procedure provides instruction for activation of the Emergency Respon Organization and implements the Turkey Point Plant Radiological Emergency Plan.	rocedure No.:	I	Procedure Title:	Page:					
 1.1 This procedure provides instruction for activation of the Emergency Respon Organization and implements the Turkey Point Plant Radiological Emergency Plan. 1.2 When the Emergency Plan is activated, certain notifications should be made. The procedure outlines the call structure to be used to ensure these notifications occur. NOTE Atthough the Emergency Coordinator is responsible for specific notifications, his notifications are not outlined in this procedure. Emergency Coordinator notifications are outlined in 0-EPIP-20101, Duties of the Emergency Coordinator. 2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS 2.1 Plant Procedures 1. 0-ADM-018, Fitness for Duty 2. 0-ADM-115, Notification of Plant Events 3. 0-EPIP-1211, Duties of the Recovery Manager 4. 0-EPIP-1211, Duties of the Corporate Communication Emergency Respon Organization 5. 0-EPIP-1212, Emergency Operations Facility (EOF) Activation and Operation 6. 0-EPIP-20101, Duties of the Emergency Coordinator 	0-EPIP-201	04		Approval Date:					
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Operation6. 0-EPIP-20101, Duties of the Emergency Coordinator				Emergency Response					
				ctivation and					
7. EPIP-20132, Technical Support Center (TSC), Activation and Operation			5. 0-EPIP-20101, Duties of the Emergency Coordinator						
			. EPIP-20132, Technical Support Center (TSC), Activat	ion and Operation					
8. EPIP-20133, Operations Support Center (OSC), Activation and Operation			EPIP-20133, Operations Support Center (OSC), Activation	ation and Operation					

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2.1.2 <u>Miscellaneous Documents</u> (PC/M, Correspondence etc.)

- 1. Turkey Point Plant Radiological Emergency Plan
- 2. Emergency Response Directory
- 3. Security Force Instruction 6307, Emergency Evacuation

Notifications/Staff Augmentation

2.2 Records Required

- 2.2.1 None
- 2.3 Commitment Documents

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2.3.1 None

3.0 <u>RESPONSIBILITIES</u>

NOTE

Fitness for Duty Responsibilities for Emergency Responders are identified in 0-ADM-018, Fitness for Duty.

- 3.1 The following individuals are responsible for initiating notifications to personnel specified in the Emergency Response Directory outlined in this procedure.
 - 3.1.1 The Duty Call Supervisor
 - 3.1.2 Shift Technical Advisor
 - 3.1.3 TSC Security Supervisor (Security Shift Specialist)
 - 3.1.4 Assistant to the Duty Call Supervisor
- 3.2 Emergency Response Organization members who report to the Technical Support Center, Operations Support Center, or the Emergency Operations Facility are responsible for the following:

NOTE

Emergency Response personnel should have available, at all times, the relevant sections of the Emergency Response Directory, their callout lists, or call out card for their augmentation responsibilities.

- 3.2.1 Making notifications, if applicable, to personnel specified in the Emergency Response Directory as outlined in this procedure.
- 3.2.2 Assembling promptly at the appropriate Emergency Response Facility.

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- 3.2.3 Notifying the Emergency Preparedness Coordinator when a change pertinent to information appearing in the Emergency Response Directory occurs.
- 3.2.4 Maintaining a copy of pertinent sections of the Emergency Response Directory or their call out card available during off-normal hours.
- 3.3 The Emergency Preparedness Coordinator is responsible for quarterly verification and updating of the Emergency Response Directory.

4.0 **DEFINITIONS**

- 4.1 <u>Emergency Response Directory (ERD)</u> The directory containing names and phone numbers of Emergency Response Organization personnel.
- 4.2 <u>On Call Roster</u> Weekly schedule of plant management who are on call. This schedule is issued in the Plan-of-the-Day on Fridays.
- 4.3 <u>Normal Business Hours</u> Hours between 7:30 a.m. and 4:00 p.m., Monday through Friday, excluding holidays.
- 4.4 <u>Off-Normal Business Hours</u> Hours between 4:00 p.m. and 7:30 a.m., Monday through Friday, all day during holidays, Saturdays, and Sundays.
- 4.5 <u>Call Out Card</u> Emergency Response Call out Card containing the necessary information for responders to make their required call outs for activating the Emergency Response Facilities. These cards are usually a reduced version of the notification pages in the Emergency Response Directory. A date should appear at the top of each card for verification of the most current information as listed in the current quarterly revision of the Emergency Response Directory.

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Emergency Response Organization Notifications/Staff Augmentation 7

5.0 **PROCEDURE**

Defines activities to be performed if the emergency plan is being activated and the Emergency Response Facilities <u>ARE NOT</u> being activated.

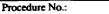
NOTE

- The Shift Technical Advisor, Duty Call Supervisor, and Assistant to the Duty Call Supervisor have responsibilities defined in both Subsections 5.1 and 5.2.
- Phone numbers necessary to complete the following call outs can be located in the Emergency Response Directory or on the Plant On Call Roster.
- During Off-Normal Business Hours, notifications should be made by contacting the responder using home phone number first, and if no response is received, the responder's pager number should be used.
- During Normal Business Hours, the primary means for notification of the Emergency Response Organization for activation of the Emergency Response Facilities is by Plant Page. If requested by an Emergency Response Organization Supervisor to make notifications, the responder's office phone number should be called first, and if no response is received, the responder's pager number should be used.
- 5.1 If the Emergency Plan is being activated and the Emergency Response Facilities are not being activated (Unusual Event), the following steps should be performed:
 - 5.1.1 The Shift Technical Advisor or designee should perform the following:
 - NOTE

If long distance access is needed, an FPL ITN Number can be obtained from the NPS.

1. Obtain a copy of the Florida Nuclear Plant Emergency Notification Form (Form similar to Attachment 1) completed by the Emergency Coordinator or designee.

Procedure No.:	Procedure Title:	Page: 8								
0-EPIP-20104	Emergency Response Organization Notifications/Staff Augmentation	Approval Date: 5/31/00								
	<u>5.1.1 (Cont'd)</u>									
	CAUTION									
Manageme	The Duty Call Supervisor is required to make additional notifications to Plant Management as required by 0-EPIP-20104, therefore, it is necessary for him to be notified as quickly as possible.									
r	<u>NOTE</u>									
Duty Call S Notifications	upervisor phone numbers are listed in the ERD in Section 1,	Immediate								
	 If the emergency has occurred during normal busines Duty Call Supervisor should be made by calling his first. 	s hours, contact to a office phone number								
	3. If the emergency has occurred during off-normal busine Duty Call Supervisor should be made by calling his first.	ess hours, contact to a home phone number								
	4. If no answer, use beeper.									
	5. If no answer, use cellular phone number, if listed.									
	6. If no answer, notify the Emergency Coordinator to acqu to make the Duty Call Supervisor notifications.	ire additional support								
	7. If the Duty Call Supervisor answers, relay applicable inf the Florida Nuclear Plant Emergency Notification Form Attachment 1).	ormation from (form similar to								
	a. Instruct the Duty Call Supervisor to make notif using this procedure as listed in the Duty Call Sup 2 in the Emergency Response Directory.									
	8. When requested by the Emergency Coordinator or design Call Supervisor of changes in plant conditions or upd event.	gnee, notify the Duty on termination of the								



Procedure Title:

0-EPIP-20104

Emergency Response Organization Notifications/Staff Augmentation

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The Duty Call Supervisor should perform the following: 5.1.2

CAUTION

If a Plant Event has occurred, not requiring Emergency Classification the Duty Call Supervisor shall use 0-ADM-115, NOTIFICATION OF PLANT EVENTS, for making notifications.

> Fill out the Florida Nuclear Plant Emergency Notification Form (form 1. similar to Attachment 1) from the information given by the Shift Technical Advisor or designee.

NOTE

The Duty Call Supervisor should make notifications for each position by contacting responders, in the order given in the Emergency Response Directory or for On Call positions, the person designated on the On Call Roster may be contacted.

- If the emergency has occurred during normal business hours, contact to one responder for each position listed in the Emergency Response Directory Duty Call Supervisor Call List No. 2 should be made by completing the following steps:
 - Call the office number of the first responder. а.
 - If the responder answers, relay applicable information from the **b**. Florida Nuclear Plant Emergency Notification Form.
 - If no answer, go to the next responder. C.
 - Call the office number of the next responder. (1)
 - Repeat the preceding Substeps 5.1.2.2.b and 5.1.2.2.c until one d. responder for the position has been notified or all office numbers have been attempted.
 - If the position has not been notified using office numbers, call the e. beeper of each responder.
 - When a responder for the position calls back, relay (1) applicable information from the Florida Nuclear Plant **Emergency Notification Form.**

Procedure No.:	Proced	lure Title:		Page: 10		
0-EPIP-20104		Emergency Response OrganizationApprovalNotifications/Staff Augmentation4				
	<u> </u>	5.1.2.2 (0	Cont'd)			
	:	f. Go	to the next call out position.			
		(1)	Repeat the preceding Substeps 5.1.2.2.a one responder for the position has been numbers have been attempted.	through 5.1.2.2.d unti notified or all office		
			ne position has not been notified using of per of each responder.	fice numbers, call the		
		(1)	When a responder for the position calls bac applicable information from the Florida Nu Emergency Notification Form.			
	1	h. Got	to the next call out position.			
		(1)	Repeat the preceding Substeps 5.1.2.2.a t all positions listed in the Duty Call Supe and Nuclear Division Duty Officer Call notified.	rvisor Call List No. 2		
	i		are that the Emergency Coordinator is info could not be notified.	rmed of any position		
]	one respon	ergency has occurred during off-normal bus nder for each position listed in the Emergen Supervisor Call List No. 2 should be ma steps:	cy Response Directory		
	4	a. Call	the home number of the first responder.			
	1		e responder answers, relay applicable inform ida Nuclear Plant Emergency Notification Fo			
	(c. If no	answer, go to the next responder.			
		(1)	Call the home number of the next responde	er.		
	(resp	eat the preceding Substeps 5.1.2.3.b and onder for the position has been notified or a attempted.	d 5.1.2.3.c until one all home numbers have		
			e position has not been notified using hom beeper of each responder.	e phone numbers, cal		
		(1)	When a responder for the position calls bac applicable information from the Florida Nu Emergency Notification Form.			

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0-EPIP-20104		Emergency Response Organization Notifications/Staff Augmentation	Approval Date: 5/31/00					
	<u>5.1</u>	.2.3 (Cont'd)						
	f. Go to the next call out position.							
		(1) Repeat the preceding Substeps 5.1.2.3.a all positions listed in the Duty Call Su have been notified.	a through 5.1.2.3.f, untipervisor Call List No. 2					
	g. Ensure that the Emergency Coordinator is i that could not be notified.							
[<u>NOTE</u>	1					
		port Center has been activated, and if directed by ot be necessary to perform the following steps.	the Emergency					
	4. Remain accessible by telephone for further updates unless							
	 When notified that the emergency condition has changed of contact previously notified personnel as listed in the Em Directory. 							

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5.2

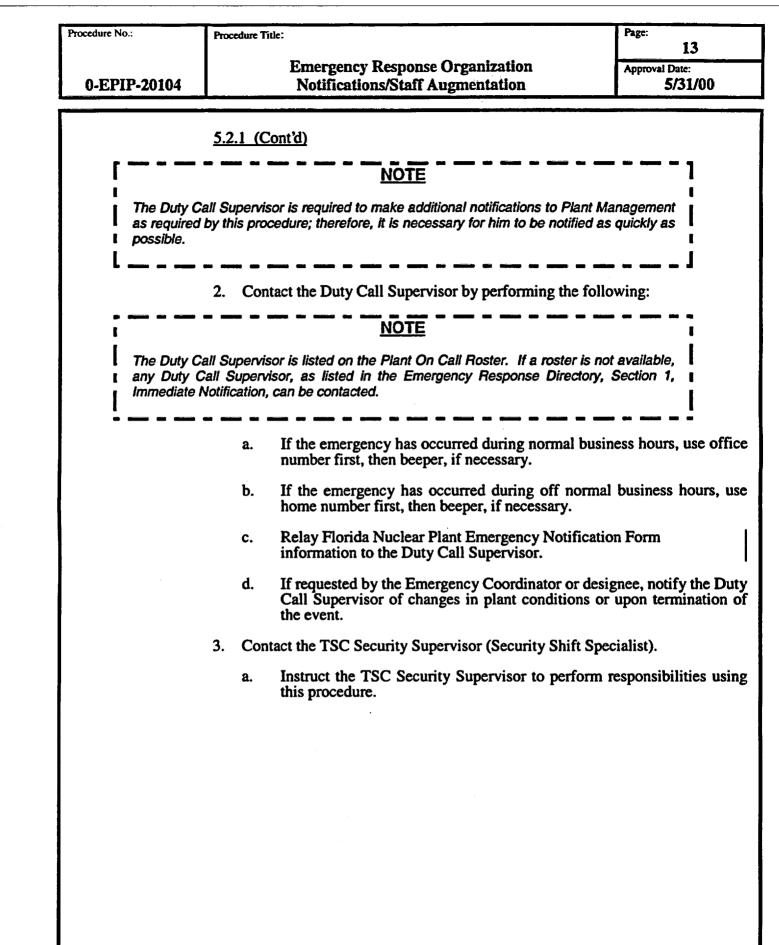
NOTES Subsection 5.2 defines activities to be performed if the Emergency Plan is being activated and the Emergency Response Facilities ARE being activated. The Shift Technical Advisor. Duty Call Supervisor, and Assistant to the Duty Call Supervisor have responsibilities defined in both Subsections 5.1 and 5.2. Phone numbers necessary to complete the following call outs can be located in the Emergency Response Directory or on the Plant On Call Roster. During Off-Normal Business Hours, notifications should be made by contacting the responder using home phone No. first, and if no response is received, the responder's pager No. should be used. During Normal Business Hours, the primary means for notification of the Emergency Response Organization for activation of the Emergency Response Facilities is by Plant Page. If requested by an Emergency Response Organization Supervisor to make notifications, the responder's office phone No. should be called first, and if no response is received, the responder's pager No. should be used. If the Emergency Plan is being activated and the Emergency Response Facilities are being activated (Alert or higher classification or at the discretion of the Emergency Coordinator), the following steps should be performed:

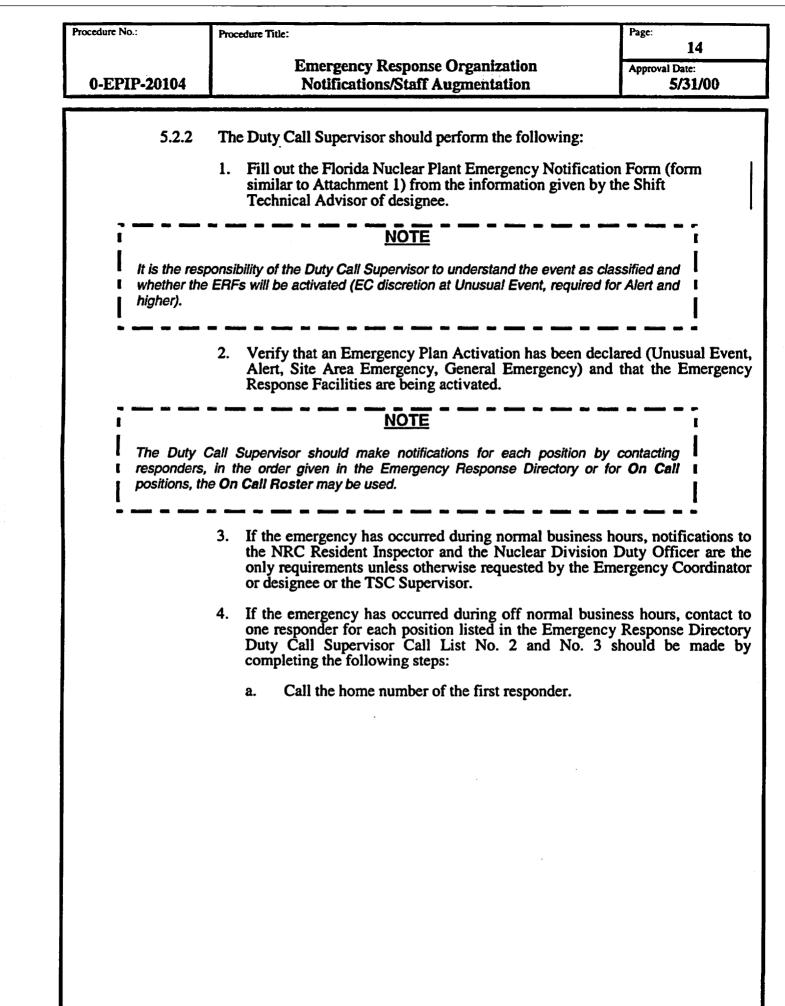
NOTE

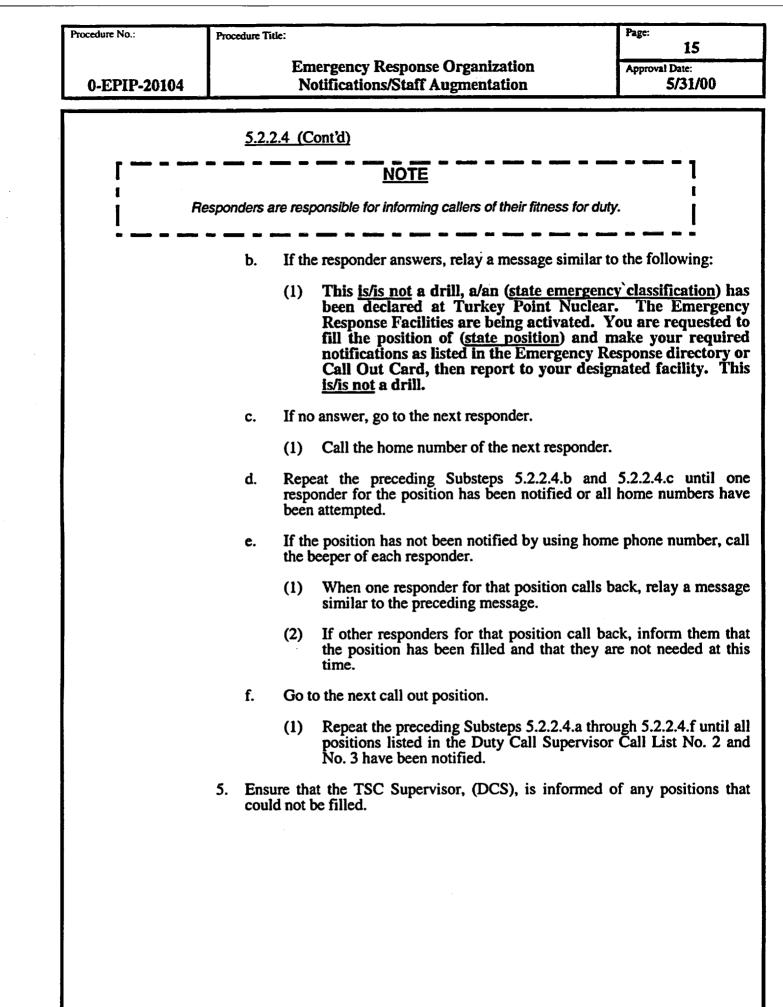
The STA is to make these notifications unless these actions will interfere with his accident assessment responsibilities. If the STA is not available to make these notifications, the Emergency Coordinator is responsible for ensuring these notifications are delegated to another on shift individual.

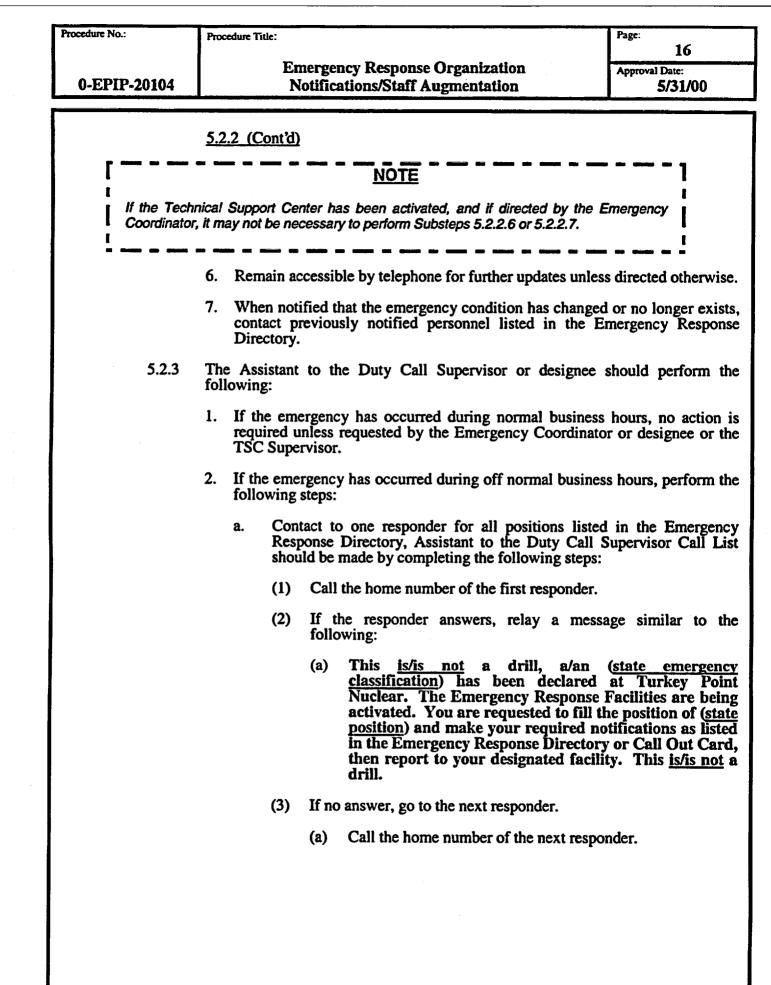
- 5.2.1 The Shift Technical Advisor or designee should contact the positions as listed in the Emergency Response Directory Shift Technical Advisor Call List by completing the following steps:
 - Obtain a copy of the Florida Nuclear Plant Emergency Notification 1. Form (form similar to Attachment 1) completed by Emergency Coordinator or designee.

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	<u>5.2.3.2.a (Cont'd)</u>	
	(4) Repeat the preceding Substeps 5.2.3.2.a(2 one responder for the position has been numbers have been attempted.	
	(5) If the position has not been notified b number, call the beeper of each responder.	by using home phon
	(a) When one responder for that positi message similar to the preceding mes	
	(b) If other responders for that position that the position has been filled a needed at this time.	
	(6) Go to the next call out position.	
	(a) Repeat the preceding Substeps 5.2.3.2.a.(6) until all positions listed Duty Call Supervisor Call List have b	in the Assistant to th
	3. Ensure that the TSC Supervisor, (DCS) are informed could not be filled.	l of any positions the
5.2.4	The TSC Security Supervisor (Security Shift Specialist following:) should perform th
	1. Send 1 Security Officer to the Technical Support Cente	r with the TSC Key.
	a. Instruct the Officer to perform his duties as outlir	ned in SFI 6307.
	2. Send 1 Security Officer to the Operations Support Ce for all vital areas and access gates.	nter with a set of key
	a. Instruct the Officer to perform his duties as outlin	ned in SFI 6307.
	 Report to the Technical Support Center and perform Security Supervisor as described in 0-EPIP-20132, Tec (TSC) Activation and Operation. 	

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0-EPIP-20104			nergency Response Organization otifications/Staff Augmentation	Approval Date: 5/31/00
5.2.5	All	emergency	responders should perform the following:	
		Emergenc	ergency Classification of Alert or higher y Coordinator uses discretion for activa s shall immediately report to their designated ERF).	ation, all emergency
			n arrival at the ERF, responders should period in the appropriate procedures:	erform their duties as
		(1)	0-EPIP-1102, Duties of the Recovery Mana	ager
		(2)	0-EPIP-1211, Duties of the Corpor Emergency Response Organization	rate Communication
		(3)	0-EPIP-1212, Emergency Operations Facili and Operation	ty (EOF) Activation
		(4)	0-EPIP-20101, Duties of the Emergency Co	pordinator
		(5)	0-EPIP-20132, Technical Support Center Operation	(TSC) Activation and
		(6)	0-EPIP-20133, Operations Support Center Operation	(OSC) Activation and
	2.	If the En following	business hours, the	
		resp posi	n receiving notification to activate the E onsible for further notifications, contact on tion listed in the appropriate call list in the ctory.	e responder for each
		(1)	Call the home number of the first responder	r.

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0-EPIP-20104		-	ency Response Organization cations/Staff Augmentation	Approval Date: 5/31/00
	4	5.2.5.2.a	(Cont'd)	
[• •• ••••	NOTE	1
0-ADM-018, F	itness for D	outy: Call-	informing callers of their fitness for duty. out of Personnel, For Cause Testing, and Re er qualified responder is not available.	
	(the responder answers, relay a mess owing:	age similar to the
		(a)	This <u>is/is not</u> a drill, a/an <u>classification</u>) has been declared Nuclear. The Emergency Response activated. You are requested to fill the <u>position</u>) and make your required not in the Emergency Response directory then report to your designated facilit drill.	at Turkey Poin Facilities are being he position of (<u>state</u> otifications as listed y or Call Out Card
	((3) If n	o answer, go to the next responder.	
		(a)	Call the home number of the next respo	onder.
	(one	peat the preceding Substeps 5.2.5.2.a.(2) a responder for the position has been n nbers have been attempted.	nd 5.2.5.2.a.(3) unti- otified or all home
			sition has not been notified by using home or of each responder.	e phone number, cal
	(en one responder for that position calls ba ilar to the following message:	ack, relay a messag
		(a)	This <u>is/is not</u> a drill, a/an <u>classification</u>) has been declared Nuclear. The Emergency Response activated. You are requested to fill the <u>position</u>) and make your required not in the Emergency Response directory then report to your designated facility drill.	at Turkey Poin Facilities are being he position of (<u>stat</u> otifications as listed y or Call Out Card
	(other responders for that position call bac position has been filled and that they ar e.	

5.2.5 (Cont'd)

- 3. After each position has been filled or if all numbers have been tried and the position is not filled, report to the designated ERF.
 - a. If a position could not be filled, re-attempt to fill the position after arrival at the designated ERF.
- 4. If a position could not be filled, ensure that the appropriate supervisor (TSC Supervisor in the TSC, OSC Supervisor in the OSC or Recovery Manager in the EOF) is notified of the unfilled position.
- 5.3 Emergency Response Directory (ERD)
 - 5.3.1 The Emergency Preparedness Coordinator shall ensure the ERD is updated at least once per calendar quarter.
 - 5.3.2 All emergency responders should notify the Emergency Preparedness Coordinator or designee when changes to their phone numbers or other pertinent information listed in the ERD has occurred.
 - 5.3.3 All emergency responders who have notification requirements should maintain a copy of pertinent sections of the Emergency Response Directory or their call out card at their disposal during off normal business hours.
 - 5.3.4 Supervisors responsible for the filling of positions should notify the Emergency Preparedness Coordinator or designee when emergency response personnel changes are necessary.

END OF TEXT

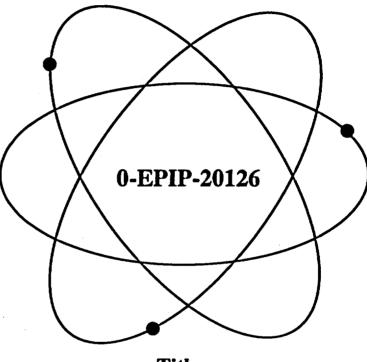
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O-EPIP-20104Emergency Response OrganizationNotifications/Staff Augmentation			Approval Date: 5/31/00				
[
	ATTACHMENT 1 (Page 1 of 2)						
FLORI	FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM						
1. A. 🗌 THIS IS A DRILL B. 🔲 THIS IS AN ACTUAL EVENT							
2. A. Time/Date contact made B. Reported by: (Name/Title)							
3. SITE A. CRIS	C. Message Number D. Reported from: Control Room TSC EOF 3. SITE A. CRISTAL RIVER UNIT 3 B. ST LUCIE UNIT 1 D. TURKEY POINT UNIT 3						
4. ACCIDENT CLAS			OF UNUSUAL E				
	B. 🗌 ALI	ERT		D. GEN	IERAL EMERGENCY		
	<u>INCY DECLARATION:</u>						
					· · · · · · · · · · · · · · · · · · ·		
7. ADDITIONAL INFOR	MATION OR UPDATE:						
	·····		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	······		
·····							
8. INJURIES REQUIRING OFFSITE SUPPORT: A. No Yes Unknown B. Contaminated: No Yes Unknown							
9. WEATHER DATA: A. Wind direction fromdegrees. B. Downwind Sectors Affected (minimum of 3):,,,,							
10. <u>RELEASE STATUS:</u>	10. <u>RELEASE STATUS:</u> A. D No Release (Go to Item 12) B. A Release is occurring						
11. OFFSITE RELEASE	11. OFFSITE RELEASE SIGNIFICANCE CATEGORY (at the Site Boundary)						
A. Information not available at this time							
B. ☐ Release within normal operating limits (≤ 2.8 ci/sec noble gas, ≤ 3.7 E-4 ci/sec iodine) C. ☐ Non-Significant Fraction of PAG Range (release is > normal limits and < 500 mR TEDE and 1000 mR CDE)							
D. ☐ PAG Range (≥500 mR TEDE or ≥1000 mR CDE)							
12. UTILITY RECOMMENDED PROTECTIVE ACTIONS							
	B. 🗌 SHELTER	ZONES/ARE	AS: <u>(Not for</u>	FPL Use)			
	EVACUAI	TE ZONES/AR	EA: (Not for EVACUATE S		TER SECTORS		
	0-2						
	2-5 _ 5-10 _			_			
13. <u>HAS EVENT BEEN TERMINATED?</u> : A. NO B. YES Time Date							
14. <u>SUPPLEMENTAL FORM IS ATTACHED?:</u> A. DNO B. DYES							
EC or F	M Approval Signature		Ti				
15. <u>MESSAGE REC</u> F-439:1/3	EIVED BY: Name		Tin	ne Date	·		
W97:WDJ/dt/ev							

D-EPIP-20104 Emergency Response Organization NotificationsStaff Argeneritation Approval Dut: \$751/00 ATTACHMENT 1 (Page 2 of 2) FLORIDA NUCLEAR PLANT EMRCENCY NOTIFICATION FORM SUPPLEMENTAL DATA SHEET The following supplemental data is to be completed after the TSC or EOF is declared operational at Alert of higher Supplement to Message Number: ELANT CONDITIONS INFORMATION CHITICAL SAFETY FUNCTIONS A. REACTOR SHUTDOWN?	Procedure No.:	Procedure Title:			Page: 22			
(Page 2 of 2) FLORIDA NUCLEAR PLANE EMERGENCY NOTIFICATION FORM SUPPLEMENTAL DATA SHEET The following supplemental data is to be completed after the TSC or EOF is declared operational at Alert of higher Supplement to Message Number	0-EPIP-20104		Approval Date:					
Image: Styled: No evidence of containment leakage or tube repture release is ontainment pressure is at or above safety system actuation points Evidence of containment leakage or containment isolated leak or containment pressure is at or above safety system actuation points Evidence of containment leakage (nown) release path or red surveys) COMPLETED BY:	The following supplement of higher Supplement CRITICAL SAFETY FUL A. REACTOR SHUTD B. CORE ADEQUATE C. ADEQUATE EMER FISSION PRODUCT BA BARRIER	ATTACHMENT 1 (Page 2 of 2) FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM SUPPLEMENTAL DATA SHEET The following supplemental data is to be completed <u>after</u> the TSC or EOF is declared operational at Alert of higher Supplement to Message Number						
RADIOLOGICAL DOSE ASSESSMENT DATA 1. RELEASE STATUS: A. No Release (no further data required) C. A Release occurred, but stopped B. A Release is occurring 2. RELEASE RATE: A. Release is occurring 2. RELEASE RATE: Curies per second Measured Default 3. TYPE OF RELEASE: Curies per second Measured Default 3. TYPE OF RELEASE: Curies per second Measured Default 4. AIRBORNE: Time/Date started: 5. DOSE RATE: B. LIQUID Time/Date started: 6. DISTANCE THYROID DOSE RATE (CDE) 1. Mile (Site Boundary) A. mrem/hr 6. mrem/hr B. mrem/hr 7. Miles C. mrem/hr 7. Miles C. mrem/hr 8. Miles C. mrem/hr 7. Miles Release is not data: 7. Miles Miles 7. Miles Miles 8. Wind Direction from degrees. 8. Wind Speed MPH C. Stability Class TIME: 7. COMPLETED BY: TIME: 7. DATE: DATE: 7. Emergency Coordinator or Recovery Manager Approval	Property of the second s	No evidence of containment leakage or tube rupture release is	containment pressure is at or above safety	containment leakage (known release path or rad	repaired) Repair Efforts have isolated leak or containment pressure has reduced to stop			
1. BELEASE STATUS: A. No Release (no further data required) C. A Release occurred, but stopped B. A Release is occurring 2. RELEASE RATE: A. NOBLE GASES: Curies per second Measured Default 3. TYPE OF RELEASE: Curies per second Measured Default 3. TYPE OF RELEASE: Curies per second Measured Default 3. TYPE OF RELEASE: Curies per second Measured Default 3. TYPE OF RELEASE: Time/Date started: B. LIQUID Time/Date started: A. AIRBORNE: Time/Date started: B. LIQUID Time/Date started: Time/Date stopped: 4. PROJECTED OFFSITE DOSE RATE: DISTANCE THYROID DOSE RATE (CDE) TOTAL DOSE RATE (TEDE) 1 Mile (Site Boundary) A. mrem/hr B. mrem/hr 2 Miles C. mrem/hr D. mrem/hr 5 Miles E. mrem/hr F. mrem/hr 10 Miles G. mrem/hr H. mrem/hr 5 WEATHER DATA (used for the above data): A. Wind Direction fromdegrees. MPH C. Stability Class C MPH DAT	COMPLETED BY:							
2. RELEASE RATE: Curies per secondMeasuredDefault ANOBLE GASES:Curies per secondMeasuredDefault 3. TYPE OF RELEASE: AAIRBORNE: Time/Date started:BLIQUID Time/Date started:Time/Date stopped:Time/Date stopp	1. <u>RELEASE STATUS</u>	1. <u>RELEASE STATUS:</u> A. No Release (no further data required) C. A Release occurred, but stopped						
4. PROJECTED OFFSITE DOSE RATE: DISTANCE THYROID DOSE RATE (CDE) TOTAL DOSE RATE (TEDE) 1 Mile (Site Boundary) Amrem/hr Bmrem/hr 2 Miles Cmrem/hr Dmrem/hr 5 Miles Emrem/hr Dmrem/hr 10 Miles Gmrem/hr Hmrem/hr 5. WEATHER DATA (used for the above data): A. Wind Direction fromdegrees. 8. Wind SpeedMPH C. Stability Class TIME:DATE: COMPLETED BY: TIME:DATE:	A. NOBLE GASES B. IODINES: 3. TYPE OF RELEASE	2. RELEASE RATE: A. NOBLE GASES: B. IODINES: 3. TYPE OF RELEASE: A. AIRBORNE: Time/Date started:B.						
5 Miles Emrem/hr Fmrem/hr 10 Miles Gmrem/hr Hmrem/hr 5. WEATHER DATA (used for the above data): Hmrem/hr 5. WEATHER DATA (used for the above data): Mind Direction fromdegrees. 8. Wind SpeedMPH C. Stability Class COMPLETED BY: TIME:DATE: Emergency Coordinator or Recovery Manager Approval	DISTANCE 1 Mile (Site Boundary)	4. PROJECTED OFFSITE DOSE RATE: DISTANCE THYROID DOSE RATE (CDE) 1 Mile (Site Boundary) Amrem/hr						
B. Wind SpeedMPH C. Stability Class COMPLETED BY:TIME:DATE: Emergency Coordinator or Recovery Manager Approval	5 Miles 10 Miles	E G	mrem/hr mrem/hr	Fm	rem/hr			
Emergency Coordinator or Recovery Manager Approval	A. Wind Direction fromB. Wind SpeedC. Stability Class	degrees. MPH		DATE:				
	Emergency Coordinator							

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Florida Power & Light Company

Turkey Point Nuclear Plant



Title:

Off-site Dose Calculations

Safety Related Procedure				
Responsible Department:	Emergency Preparedness			
Revision Approval Date:	6/1/00			
Periodic Review Due:	5/1/03			
Implementation Date:	6/8/00			

RTSs 97-1404P, 99-0286, 00-0212

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1.0 PURPOSE

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- 1.1 This procedure provides a method for estimating Emergency Off-site Doses to support Protective Action Recommendation (PAR) formulation.
- 1.2 This procedure provides a method for reporting Reportable Quantities (RQ) of radionuclides releases pursuant to 40 CFR 302 and 40 CFR 355.

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 <u>References</u>

- 2.1.1 Plant Procedures
 - 1. 0-ADM-115, Notification of Plant Events
 - 2. 0-EPIP-20101, Duties of Emergency Coordinator
 - 3. 0-NCAP-104, Primary to Secondary Leak Detection

2.1.2 <u>Regulatory Guides</u>

- 1. 10 CFR 20, Appendix B
- 2. 40 CFR 302, Reportable Quantity Adjustment Radionuclides
- 3. 40 CFR 355, Emergency Planning and Notification
- 2.1.3 <u>Miscellaneous Documents</u> (i.e., PC/Ms, Correspondence)
 - 1. Turkey Point Plant Radiological Emergency Plan
 - 2. Turkey Point Units 3 and 4 Off-site Dose Calculation Manual
 - a. Section 2.0, Table 2.2-1
 - b. Section 3.0, Tables 3.1-1, 3.2-1
 - 3. Class A, Emergency Off-site Dose Calculation System User's Manual
 - 4. EPA-520, Rev 6/79

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2.1.3 (Cont'd)

- 5. NRC Response Technical Manual, RTM-91
- 6. JPE-PTPO-85-74, Containment Break Calculations
- 7. JPE-LR-87-033, Steam Generator Tube Rupture FSAR Model PTN 3 and 4
- 8. PTN-ENG-SENS-97-088, Revision 1, Engineering Evaluation Related to Pre-planned Alternative Monitoring for the Containment High Range Radiation Monitors
- 9. PSL-BFJM-93-032, Revision 0, Method to Estimate Post-Accident Containment Release

2.2 Records Required

- 2.2.1 Records of meteorological conditions used to calculate dose rates and doses shall be kept on the attached worksheets or forms containing similar information.
- 2.2.2 A copy of the completed Dose Calculation Worksheet, or computer generated forms conveying similar information, shall be given to the Emergency Coordinator, and shall contain:
 - 1. Meteorological conditions (wind speed, wind direction, and affected sectors).
 - 2. Emergency Off-site Doses at 1, 2, 5 and 10 miles, including sectors affected.
 - 3. Default values or actual measurements that were used for dose estimates.
- 2.2.3 Completed copies of the below listed item(s) constitute Quality Assurance Records and shall be transmitted to QA Records for retention in accordance with Quality Assurance Records Program requirements:
 - 1. A form similar to Attachment 2 or computer generated forms conveying similar information.
- 2.3 <u>Commitment Documents</u>
 - 2.3.1 None

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3.0 **RESPONSIBILITIES**

- 3.1 The Emergency Coordinator is responsible for directing the performance of emergency off-site dose calculations during an emergency which involves a release of radioactivity to the environment.
- 3.2 The HP/Chemistry Department representatives are responsible for performing the following:
 - 3.2.1 Calculations in accordance with this procedure.
 - 3.2.2 Ensuring that the Emergency Coordinator receives the most current dose calculations as soon as possible after request of emergency off-site dose information.
 - 3.2.3 Performance of Reportable Quantity (RQ) calculations, as necessary.
 - 3.2.4 Notifying the Chemistry Supervisor or designee as soon as practical for verification of release data. Notification to the Emergency Coordinator will not be delayed because of notification process with the Chemistry Supervisor.
 - 3.2.5 Ensuring that the initial EOF Responders are updated with copies (e.g., facsimile) of dose calculations. The dose calculation summary sheet, if using the computer method, contains the minimum information needed by the initial EOF Responders. Attachment 2 contains the minimum information needed if using the manual calculation method.

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4.0	DEF	INITIO	NS	<u> </u>
	4.1	<u>Core O</u> by:	verheating/Melting - Severe core damage, beyond gap failure	, typically indicated
		4.1.1	The core being uncovered, by coolant, for 30 minutes or more	
		4.1.2	CHRRM reading 1.3 E+4 R/hr or more.	
	l po l in	int for pot an overhe g., Bariun	NOTE core exit thermocouple value used in other procedures signifies the ential core melting. The value used in this procedure signifies that t eat condition, melting is imminent and the release may include particle his, Cesiums, Strontiums, etc.).	the core is I articulates, I I
		4.1.3	Valid Core Exit Thermocouple reading(s) in excess of 1700°F	
	4.2	equivale	ose Equivalent (DDE) - Applies to External Whole Body Expo ent at a tissue depth of 1cm. The computerized version of es a plume immersion dose (DDE), which is a best estimate of eading.	this procedure also
	4.3	Emerger as either release.	ncy Off-site Doses - The Total Dose (TEDE) and Thyroid Dos r rates of exposure to the dose commitment or the total dose	e (CDE), calculated committed from the
	4.4	ten time radioact	- During any declared emergency, any effluent monitor increases, or one decade above pre-transient values, or Health Physicivity levels in excess of 25 percent DAC outside of plant buildent directly associated with the declared plant emergency.	cs detected airborne
	4.5	Thyroid the radio	Dose (CDE) - The Committed Dose Equivalent to an adult the plume.	yroid from inhaling
	4.6	whole b	ose (TEDE) - The Total Effective Dose Equivalent, the sum ody from immersion in a plume containing radioactive mater the plume, and an assumed four days of exposure to plume dep	rial, the CEDE from
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rocedure No.:	Procedure Title:	
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5.0 PROCEDURE

CAUTIONS

- Doses determined in this procedure will be given to the Emergency Coordinator, who will evaluate doses and plant conditions with criteria listed in 0-EPIP-20101, Duties of Emergency Coordinator.
- Dose Projections should be made on a best estimate basis by projecting the duration of the release, if possible. If no reasonable duration of release can be projected, the default value listed in Part D of Attachment 3 should be used.
- Releases greater than Off-site Dose Calculation Manual limits or Reportable Quantities shall require reports or notifications to the NRC even if no off-site action is required. Ensure reports are performed as required by 0-ADM-115, Notification of Plant Events.
- The following steps apply to the use of this procedure for the performance of a manual calculation. As soon as possible, the computerized Emergency Off-site Dose Calculation Method should be used for dose calculations. The instructions for using the computer program, which parallels this procedure, are in Enclosure 2.

5.1 Discussion

5.1.1 During any emergency involving release of radioactivity to the environment, the Emergency Plan requires Emergency Off-site Doses be calculated for areas up to 10 miles from the plant. This information will be used in making Protective Action Recommendations and will be an input to the State of Florida Division of Emergency Management (DEM) in determining what off-site protective actions should be taken. When the Technical Support Center or the Emergency Operations Facility are operational, the function of dose calculation will be shifted to one of these locations.

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5.1.2	The Chemistry Department Representative should use the computer dose calculation model in the Technical Support Center, when time and manpower resources are available, along with this procedure for estimating Emergency Offsite Doses when releases of radioactivity occur during an emergency. The computer model closely parallels this procedure. The instructions for using the computer program, which parallels this procedure, are in Enclosure 2. Additional instructions for use of the computer are located in the Emergency Off-site Dose Calculation User's Manual located in the Health Physics/Chemistry Area of the TSC and the EOF.
5.1.3	ERDADS may be used to display effluent monitor and meteorological data required by this procedure and the computerized Emergency Off-site Dose Calculation Method.
5.1.4	The various meteorological data processing methods deal with sea-breeze. Sea- breeze is a coastal phenomena where an artificial ceiling may exist. Our methods assume that this ceiling acts as a limit to vertical mixing; that is, the plume is below the ceiling. This leads to a slightly higher concentration for a given stability class. The computer program will state Sea-breeze: Yes when the procedure states No impact. The computer model is stating that sea-breeze may exist although there is no impact; the ceiling is too high to affect the vertical mixing within 10 miles of the plant.
5.1.5	The various release rate determination methods in the procedure and computer program require asking the Emergency Coordinator if the core is overheating or melting (typical indications listed in the definitions section). The purpose of the question is to determine:
	1. if there is a core damage sequence in progress, or
	 if there is a core damage sequence in progress, or if the damage has gone beyond gap failure?
5.1.6	2. if the damage has gone beyond gap failure? <u>IF</u> there is overheating or melting in progress, <u>THEN</u> the off-site TEDE dose multiplier is increased to 4.4 to reflect the additional dose from the presence of particulates in the plume.
5.1.6	 2. if the damage has gone beyond gap failure? <u>IF</u> there is overheating or melting in progress, <u>THEN</u> the off-site TEDE dose multiplier is increased to 4.4 to reflect the additional dose from the presence of particulates in the plume. Pursuant to 40 CFR 302, Radionuclides are designated as a hazardous substance, which if released, other than federally permitted, (within Technical Specification limits) in a quantity equal to or greater than the revised Reportable Quantities
5.1.6	 2. if the damage has gone beyond gap failure? <u>IF</u> there is overheating or melting in progress, <u>THEN</u> the off-site TEDE dose multiplier is increased to 4.4 to reflect the additional dose from the presence of particulates in the plume. Pursuant to 40 CFR 302, Radionuclides are designated as a hazardous substance, which if released, other than federally permitted, (within Technical Specification limits) in a quantity equal to or greater than the revised Reportable Quantities
5.1.6	 2. if the damage has gone beyond gap failure? <u>IF</u> there is overheating or melting in progress, <u>THEN</u> the off-site TEDE dose multiplier is increased to 4.4 to reflect the additional dose from the presence of particulates in the plume. Pursuant to 40 CFR 302, Radionuclides are designated as a hazardous substance, which if released, other than federally permitted, (within Technical Specification limits) in a quantity equal to or greater than the revised Reportable Quantities

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5.2	<u>Meteor</u> 5.2.1	ological Conditions Determination Complete applicable worksheets in Attachment 1. The three r preferential order. Use the next method, in order to suppleme Indicate the method used on the selected worksheet in Attachm	nt any missing data.
		CAUTIONS	
	Sigma-	t Tower Data for Wind Speed, Wind Direction, Delta Tempera Theta are averaged over 15 minutes by the instrumentation for d p charts and ERDADS.	
•	Theta v	ological Wind Speed, Wind Direction, Delta Temperature, and ralues should vary with time, i.e., Chart Recorders in the Contu- not be straight lining. Investigate data that is unchanging.	
		 Plant Meteorology Towers - Data from the primary and b evaluated by following the instructions of Attachment 1, I Met Tower data, with backup Met Tower data being used primary Met Tower data. 	Part A. Use primary
[_ [_	• • • • • •	NOTE	1
i_		Meteorological data from the NWS is not required to be averaged.	i
		2. National Weather Service (NWS) - Meteorological obser NWS are evaluated by following the instructions on Attac	
		3. Default Values - Daytime and nighttime default va Attachment 1, Part C.	alues are listed in
5.3	Dose Ca	alculation Worksheets	
	5.3.1	Select the appropriate Dose Calculation Worksheet from A worksheets, numbered 1 through 10, are tied to the Stability C impact. The class and impact are noted on the first row of the	lass and Sea-breeze

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	<u>5.4</u> .	1 (Cont'd)		
[— - — ·		<u>NOTE</u>	·i	
accident (LC vent monito isolation is p design leak	DCA) or real orevel rate f	nitor should be used in addition to Methods 1 or 2, if a has occurred. For example, if the CHRRM reading is hig ding is approximately normal, this probably indicates the nting a release from containment to the plant vent. Howe from containment should still be taken into consideration, a s may not register on effluent monitors.	h but the plant I at containment I ever, the FSAR f	
	3.	Containment High Range Radiation Monitor (CHR are evaluated by following the instructions on Attach	RM) -CHRRM reading ment 3, Part C.	
	4.	Default Values - default noble gas and iodine re Attachment 3, Part D, for the following accidents:	lease rates are listed i	
		a. Loss of Coolant (LOCA)		
		b. Steam Generator Tube Rupture (SGTR)		
		c. Spent Fuel Handling		
	5.	Attachment 4 provides methods to adjust or replace t rates based on known plant parameters. Guidance with containment failure releases, either rapid depre- penetration size failure.	e is provided for copin	
	6.	Attachment 5 provides methods to adjust the steam g rupture default release rates based on known plant pa is also provided for estimating a release rate using su the Main Steam Line.	rameters. Guidance	
	7.	Attachment 6 provides a method, using factors in th a release rate from field team centerline survey meter	is procedure, to estimate readings.	

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rocedure No.:	Procedure Title:	Page: 14
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5.5 <u>Dose R</u>	ates and Projected Doses	
[]	<u>NOTE</u>]
giving a cop	emistry Supervisor or designee as soon as practical to verify release by of the dose calculation worksheet to the Emergency Coordinator ations to the Emergency Coordinator.	
5.5.1	Dose rates and projected doses are calculated by following Attachment 2 selected at Subsection 5.3.	the instructions on
5.6 <u>Compu</u>	terized Emergency Off-site Dose Calculation Method	
5.6.1	The computerized Emergency Off-site Dose Calculation Met for dose calculations, (in preference to manual method). S instructions on use of computer program.	thod should be used the Enclosure 2 for
5.7 <u>Evaluat</u>	ing EPA Reportability	
	<u>NOTE</u>	
[I	Attachment 7 contains forms to assist in this activity.	
 • 5 .7.1	Determine if the following condition has occurred during the R	adioactive release:
۱ – – – ۱		
or damage t	ncident means any occurrence of bodily injury, sickness, disease, deal to property or loss of use of property (Off-site Evacuation) resulting toxic, explosive, or other hazardous properties of source, special n	from the
	1. Dose exceeds any applicable Technical Specification, Off-site Dose Calculation Manual (ODCM) <u>AND</u> the re- under a nuclear incident.	or section of the lease is <u>not</u> exempt

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If the condition in Substep 5.7.1.1 is not met, proceed to Subsection 5.8. 5.7.2

Off-site Dose Calculations

- Using Radionuclide Reportable Quantities (RQs) listed in Appendix B to 40 CFR 5.7.3 302.4, determine if a RO limit has been exceeded using the following criteria.
 - If the identity and quantity (in curies) of each Radionuclide in a mixture or 1. solution is known, the ratio between the quantity released and the RQ for the Radionuclide must be determined for each Radionuclide. An RQ is reached if the sum of the ratios of the Radionuclides is equal to or greater than one. [Grab Sample method only]
 - 2. If the identity of each Radionuclide in a released mixture or solution is known, but the quantity of one or more of the radionuclides is unknown, a RO is reached if the total quantity (in curies) of the mixture or solution released is equal to or greater than the lowest RQ of any Radionuclide in the mixture or solution. (Methods other than Grab Sample]
 - 3. If the identity of one or more of the Radionuclides in a released mixture or solution is unknown, a RQ is reached if the total quantity (in curies) released is either equal to or greater than one curie or the lowest RQ of any known individual Radionuclide in the mixture or solution, whichever is lower. [Methods other than Grab Sample]
- If the release exceeds the permissible RQ limits, complete Attachment 7 5.7.4 accordingly.
- Request the Chemistry Supervisor, or designee to notify the agencies listed in 5.7.5 Attachment 7, of the release.
 - Provide each agency with the information required in Attachment 7. 1.
 - Record Date/Time and name of person contacted for each agency. 2.
- This event shall be reportable to the NRC. Ensure notifications and reports 5.7.6 required by 0-ADM-115, Notification of Plant Events, are made.

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5.8 <u>Cont</u>	inue Monitoring and Evaluation of Releases	· · · · · · · · · · · · · · · · · · ·
[· - - - ı
	t wind direction changes (into new sector) or wind speed changes the attention of the Emergency Coordinator for evaluation.	should be
5.8.1	The Emergency Coordinator or designee shall monitor meteorological conditions.	r release rates a
5.8.2	If using the Manual Method (e.g., worksheets), dose rate updated once every hour unless:	estimates should
	1. Monitor reading increases by two or more times,	
	OR	
	2. Stability class changes.	
	If the above conditions occur, then dose calculations should b	e re-evaluated.
5.8.3	If using the computerized version, dose calculation forecasts dose PARs) should be performed every 15 or 30 minute selected Advection Step.	s (to obtain projec s, depending on
5.8.4	Comparisons between field monitoring results and plume ca performed and the results of the comparisons may be used data for the manual or computerized dose calculations.	
5.8.5	Dose Calculation activities will remain in effect until the Em designates otherwise.	ergency Coordina
	END OF TEXT	

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Off-site Dose Calculations

ENCLOSURE 1 (Page 1 of 3)

SYSTEM PARAMETERS AND CONVERSION FACTORS

The following system parameters and conversion factors are provided for use in emergency response activities. Some values may be approximated in that the values have been rounded to the nearest tenth of an order of magnitude; for example, 1.2 E+04 rather than 12,345:

System Volumes

Containment 4.4 E+10 cc Spent Fuel Pit: 60,000 ft3 (1.7 E+9 cc) Level Indicator: 650 gal/in 40 ft=312,000 gal Accumulators 6545 gal each RCS 70,000 gal Steam Generators secondary 40,000 gal max 20,000 gal operating, primary 6921 gal max Pressurizer 9725 gal max 5835 gal operating RWST 320,000 gal VCT 748 gal liquid and 200 ft3 gas CCW 35,000 gal 525 ft3 Gas Decay Tank Containment Sump 629,326 gal max 10 gal/in 0-32 in 1376 gal/in 32-489 in

System Flows

Steam Dump @ 1100 psi	28 lbm/sec	Each ADV = $1.3 E+4 cc/sec$
Aux Feed Flow	800 gpm each	
Standby Feedwater	1350 gpm	
Containment Exhaust 7000 scf	m (3.304 E+6 cc/se	ec)
Spent Fuel Pit Exhaust 20,000	scfm (9.44 E+6 cc/	/sec)
RCP 88,500 gpm per pump		
Air ejector	30 scfm (1.42 E	i+4 cc/sec)
Instrument Air Bleed	U-3 20 scfm (94	440 cc/sec) U-4 25 scfm (11800 cc/sec)
Safety Injection	375 gpm	
Charging Pump	77 gpm each	

Process Radiation Monitoring System

Monitor	Description	Units	Range Min - Max	Typical Routine Reading	Typical response factor (uCi/cc/cpm)
R-11	Containment Particulate	uCi/cc	1.0E-09 - 1.0E-06	1.0E-08	7.36E-12
R-12	Containment Gas	uCi/cc	1.0E-06 - 1.0E-03	1.0E-05	3.48E-08
R-14	Plant Vent Gas	cpm	0-300,000	500	5.0E-09
R-15	Air Ejector Gas	cpm	0-300,000	400	2.5E-08
R-17	CCW	cpm	0-250,000	750	2.0E-07
R-18	Liquid Rad Waste	cpm	0-250,000	5000	2.0E-08
R-19	S/G Blowdown	cpm	0-250,000	750	5.0E-09
R-20	Letdown	mr/hr	0.1 - 10,000	100	
DAM-1	Main Steam	uCi/cc	1.0E+00 - 1.0E+05	1.0E-01	
SPINGs					,
Ch-5	Low Range Noble Gas	uCi/cc	1.0E-07 - 6.0E-02	5.0E-07	
Ch-7	Mid Range Noble Gas	uCi/cc	2.5E-02 - 4.0E+02	1.0E-04	**********
Ch-9	High Range Noble Gas	uCi/cc	1.0E+00 - 1.0E+05	1.0E-01	

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ENCLOSURE 1

Off-site Dose Calculations

(Page 2 of 3)

SYSTEM PARAMETERS AND CONVERSION FACTORS

The Core:

 \approx 8.7 E 7 Curies I-131 DEQ (assume 15% in the gap for estimating purposes) \approx 3.5 E 8 Curies of 'core mix'(gross) noble gas

For LOCA

25% of total core iodine inventory is assumed to be available for release. 100% of total core gas inventory is assumed to be available for release. Design base leak rate is 1273 cc/sec. (0.25% per day) Dose at the site boundary for a LOCA is 93 Rem thyroid and 3.1 Rem whole body.

For Steam Generator Tube Rupture

Isolation of steam generators should occur within 30 minutes. 102,700 lbs of RCS will leak into the steam generator. 55,000 lbs of steam will be discharged into the atmosphere. With 1% defective fuel: Approximately 11,196 Ci of noble gas is released Approximately 7.6 Ci of I-131 DEQ is released Dose at the site boundary <1.0 Rem thyroid, <0.1 Rem whole body

Primary to Secondary Leak Rate

Leak Rate (gallons/hour) = $\frac{S/G \ \mu Ci/ml}{RCS \ \mu Ci/ml} = X = \frac{Blowdown (lbm/hr)}{8.33 (lbm/gallon)}$

Ci/sec = (Leak Rate, gph)*(3785 ml/gal)*(2.78 E-04 hr/sec)*(RCS μ Ci/ml)*(1.0 E-6 Ci/ μ Ci)

Conversion Factors

1 lb/Ft3 x 0.0160 = g/cm3

1 Ft3 = 28317 cm31CFM x 472 = cc/sec

1 meter/sec x 2.23 = miles per hour

(class F, 4.5 mph)

1 lbm/hr steam x 0.126 = ml/sec condensed liquid

1 lb x 454 = grams

1 mph x 0.447 = meter/sec

1 mph ö 1.15 = knot knot x 1.15 = mph 1 mile = 1609 meters

1 μ Ci/cc equilibrium noble gas = 3.6 E+5 mrem/hr (DDE) immersion dose rate

1 μ Ci/cc Iodine-131 (or mix as DEQ) = 1.3 E+9 mrem/hr (CDE) Adult Thyroid from inhalation

X/Q (FSAR default) = 1.5 E-4 sec/meter3

ENCLOSURE 1 (Page 3 of 3)

SYSTEM PARAMETERS AND CONVERSION FACTORS

Use this method IF there is not radiological data (e.g., CHRRM, containment grab sample, etc.,) <u>AND</u> the accident has progressed past gap failure <u>AND</u> the containment has undergone catastrophic failure (e.g., know there should be pressure and there is none).

Note that the following method provides DOSES, not release rates. Doses based on stability class D and 4 mph wind speed.

		innent izakage		
Core <u>Condition</u>	Containment <u>Status</u>	Mitigating <u>System</u> <u>Status (*)</u>	Acute Dose (<u>Release @</u>	rem) 1 Hour <u>1 mile (**)</u>
			WB	THY
	Early Total	No Mitigation	1000+	10 ⁵ +
	Failure (< 1hr)	Mitigated	250	104
MELT Release _ From Core 4500°F	Late Total Failure – (2-12hr)		250	104
	Major Leakage (100% / day)	<i></i>	10	10 ³
	Design Leakage		10-2	1
	Early Total	No Mitigation	<u> </u>	104
	Failure (< 1hr)	— Mitigated —	10	10 ³
Con Delvers	Late Total Failure		5	10 ³
Gap Release From Core – 1500°F	Major Leakage (100% / day)		10 ⁻¹	10
	Design Leakage	<u></u>	- 10-4	10 ⁻²
 Sprays, filters hour cloud immersion 	ion and inhalation p	lus 3 hours of ground	l shine	
BASIS: NRC's Response 7	Cechnical Manual R	TM-91 Vol. 1, Rev. 1	, pg C-2	

REACTOR ACCIDENT CONSEQUENCE OVERVIEW Containment Leakage

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Off-site Dose Calculations

ENCLOSURE 2 (Page 1 of 6)

OFF-SITE DOSE CALCULATIONS - COMPUTER METHOD

1.0 Discussion

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1.1 The computer based Class A Dose Calculation Program utilizes inputs and processes similar to the manual procedure. However, the refinements available in the computer based process allow for a wider range of input information and mathematical complexity than available in the manual method. This procedure provides guidance for using the computer based process to derive calculated off-site doses in a manner similar to that discussed for the manual calculation. Personnel having expertise in dose calculation methodology may utilize this expertise in combination with the advanced methods available through the screen driven menus to modify and refine these basic calculations.

<u>NOTE</u>: If the EOF and TSC are manned and operational, dose assessment personnel at these locations should coordinate their efforts in order to calculate the most accurate available off site dose assessment.

A. <u>Computer Startup</u>

- 1. Energize the uninterruptible power supply to the computer, to prevent data loss if a power interruption occurs.
- 2. Ensure that the floppy disk drive is empty.
- 3. <u>IF turned off, THEN</u> turn on the display monitor, the printer, the computer and the print buffer if attached.
- 4. Acquire the Class-A User's Manual while computer is starting up.
- 5. Following system startup, the computer may prompt the user to enter the current date. If the prompt appears, then:
 - a. Enter the current date in the displayed format and depress the ENTER key.
 - b. Enter the current time (to the nearest whole minute) in the displayed format and depress the ENTER key.
- 6. <u>IF</u> in the TSC, <u>WHEN</u> the computer displays the C drive prompt (C>), <u>THEN</u> type FPL <u>AND</u> depress the ENTER key to initiate the dose assessment program.

NOTES

Log-off when computer is no longer required.

• FPL Class-A will open in a window. To expand to full screen, press Alt-Enter.

7. IF in the EOF, THEN

- a. Log into the LAN by entering your SLID and password.
- b. Double click on the icon FPL Class A to launch Off-Site Dose Calculation software.

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	ENCLOSURE 2 (Page 2 of 6)	
OF	F-SITE DOSE CALCULATIONS - COMPUTER METHO	D
В.	Pre-Use QC Check	
	1. <u>IF</u> time and manpower permit, <u>THEN</u> a pre-use verify input data from the User's Manual should be performed dose calculations.	fication check using prior to conducting
	2. <u>WHEN</u> the pre-use check is completed, <u>THEN</u> exit to the proceed to Step 3 of Conducting Calculations, below.	ne Main Menu, <u>AND</u>
C.	Conducting Calculations	
	1. <u>WHEN</u> the plant site menu is displayed, <u>THEN</u> depre (i.e., F3-Unit 3 or F4-Unit 4) to select the affected Turkey	ss the Function Key y Point Plant Unit.
	2. <u>WHEN</u> the program asks, Is this an exercise [Y/N appropriately and depress the ENTER key.	N]?, <u>THEN</u> answer
	3. <u>WHEN</u> the Main Menu is displayed, <u>THEN</u> select the start calculations.	F1 Function Key to
	4. <u>WHEN</u> prompted by the program, Warning - Star destroy previous dose values. OK [Y/N]?, <u>THEN</u> ENTER key to reinitialize the data files.	t calculations will depress Y and the
r	<u>NOTES</u>	
	inute advection steps are normally used except for fuel handing acc 5 minutes advection time steps should be used.	vidents, for
	lvection time is selected, it should not be changed while running th nt generating errors.	e program
6 mm m m m		
	5. <u>SELECT</u> from the screen functions displayed on th Information Worksheet to edit the type of accident, reac start time, and advection step in the format shown depressing the corresponding Function Keys, F1, F2, F3 then depress ENTER after each new entry.	tor trip time, release on the screen by
	6. <u>WHEN</u> the correct accident type, reactor trip time, relea advection time step have been entered, <u>THEN</u> depress to to accept the inputs.	se start time, and the the F5 Function Key

.

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ENCLOSURE 2 (Page 3 of 6)

OFF-SITE DOSE CALCULATIONS - COMPUTER METHOD

- 7. <u>WHEN</u> the Input Menu is displayed, <u>THEN</u> depress the F1 Function Key to bring up the Meteorological Data menu.
- 8. <u>WHEN</u> the Meteorological Data Summary Menu is displayed, <u>SELECT</u> the data sheet corresponding to the source of the data [i.e., Site Tower [ERDADS, chart recorder), Airport (NOAA, NWS), Default].

CAUTION

When determining the atmospheric stability class, the Class A computer program will select the most recently entered Indicator (Delta-T or Sigma-Theta) of stability. Since Delta-T is the preferred indicator, ensure that Delta-T data is entered last when available.

- 9. <u>ENTER</u> the meteorological data gathered in the format shown using the displayed Function Keys, THEN depress the ENTER key after each new entry.
- 10. <u>WHEN</u> all necessary meteorological data has been entered, <u>THEN</u> depress the appropriate Function Key to ACCEPT the data and go to the Meteorological Data Summary Menu.
- 11. Review the entered meteorological data, Depress the F5 Function Key to accept the data and then return to the Input Menu.
- 12. <u>WHEN</u> the Input Menu is displayed, <u>THEN</u> depress the F2 Function Key to bring up the Source Term Data menu.

NOTE If editing is required, edit the information in accordance with the displayed instructions.

- 13. <u>IF</u> the accident type is a LOCA or SGTR, <u>THEN</u> respond appropriately to the question about the Core Damage Situation.
- 14. <u>IF</u> the accident type is a LOCA, <u>THEN</u> respond appropriately to the question about the Iodine Removal System Status.
- 15. <u>WHEN</u> the Source Term Summary Menu is displayed, <u>THEN</u> select the data sheet corresponding to the source of the data (i.e., Grab Sampling, Effluent Monitors, CHRRM, Default).

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O	F-SITE DOSE CALCULATIONS - COMPUTER MI	ETHOD			
	16. <u>ENTER</u> the source term data gathered in the format shown using the displayed Function Keys, <u>THEN</u> depress the <u>ENTER</u> key after each new entry.				
	17. <u>WHEN</u> the input of source term information has be <u>THEN</u> depress the appropriate Function Key to Au return to the Source Term Summary Menu.	een completed, CCEPT the data and			
	 <u>IF</u> the entered source term data is acceptable, <u>THE</u> function key and return to the INPUT menu, <u>OR</u> go the data. 	N depress the F7 to Step 15 to re-enter			
19. <u>IF</u> a final check of data accuracy is needed, <u>THEN</u> depress the F3 Function Key to review a summary of the meteorological and source term data. Depress the F1 Function Key to print or the F2 Function Key to exit.					
20. <u>IF</u> the meteorological or source term data needs to be revised, <u>THEN</u> go to Step 7 or Step 12 above, respectively.					
 <u>DEPRESS</u> the F4 Function Key at the screen prompt, Proceed with calculations [Y/N]?, <u>AND</u> answer Y, <u>THEN</u> depress the ENTER key to begin calculations. 					
22. <u>WHEN</u> the Output Menu is displayed, <u>THEN</u> depress the F3 Function Key to select Print Reports.					
	23. <u>WHEN</u> the Printed Report Menu is displayed, <u>TH</u> Function Keys to select the desired reports.	EN depress the displayed			
	CAUTION				
proceeding	the printer and print buffer, if used, are on line and ready with the printing task. If either device is not ready for use dose calculation program.				
	24. <u>DEPRESS</u> lower case x to escape from the task or a begin printing.	any other key to			
	25. <u>WHEN</u> the Output Menu is displayed, <u>THEN</u> dep to select the Run Mode Menu.	press the F6 Function Key			

26. <u>WHEN</u> the Run Mode Menu is displayed, <u>THEN</u> depress the F1 Function Key to select the Actual Calculation Mode and perform the next advection step (cumulative dose calculation) OR depress the F2 Function Key to select the Forecast Calculation Mode.

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OF	F-SITE DOSE CALCULATIONS - COMPUTER METH	OD
, <u> </u>	<u>NOTES</u>	
1	t periods are typically 2 hours.	Ī
1 2. Forecasi constant	ted doses assume release rates and meteorological condition to the forecasting period chosen.	ons remain t
3. Consider release r	r the reasonableness of assuming constant meteorological con rates for forecasting periods exceeding 2 hours.	ditions and L
ه منده بب همن ۴	27. Edit the forecast period as desired using the displayed in	
	 <u>WHEN</u> the forecast period has been accepted, the In Calculation mode will be displayed, <u>THEN</u> Depress th Keys to review and/or edit the inputs as necessary. 	put Menu: Forecast
	29. When all inputs are acceptable, <u>THEN</u> depress the perform calculations, at the screen prompt, Proceed [Y/N]?, <u>AND</u> answer Y, and depress the ENTER key to	d with calculations
	30. <u>WHEN</u> the Output Menu - Forecast Calculations mode depress the F3 Function Key to select Print Reports .	is displayed, <u>THEN</u>
	31. <u>WHEN</u> the Printed Report Menu is displayed, <u>THEN</u> Function Keys to select the desired reports.	depress the displayed
	CAUTION	
Ensu	ire that the printer and print buffer, if used, are on line and read	dy.
p === = == = [<u>NOTES</u>	
1. The Eme doses, Pi doses.	ergency Coordinator should be provided with a printout of actual rotective Action Recommendations (PARs), and as requested,	calculated forecasted
2. The Eme actual or p	rgency Coordinator should be updated every 30 minutes during potential off-site release.	periods of
• • • • • • • • • • • • • • • • • • •	 <u>WHEN</u> the reports have been printed, <u>THEN</u> return to to update information and repeat the dose calculation print to release rate or meteorological changes. 	the Run Mode Menu rocess as needed due

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OFF-SITE DOSE CALCULATIONS - COMPUTER METHOD

- 33. <u>DEPRESS</u> the F1 Function Key for the Actual Calculation Mode OR the F2 Function Key for the Forecast Calculation Mode OR the F3 Function Key to return to the Main Menu and quit.
- 34. <u>REVIEW</u> the Summary of Met and Source Data displays for all subsequent calculations even if the inputs do not change so that they can be reviewed and accepted. Also ensure that the Noble Gas Reduction Factor is reset to its proper value.

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0-EI	PIP-2012	6		Off-site Do	se Ca	lculations			Approval Date: 6/1/0	0		
	ATTACHMENT 1 (Page 1 of 7) METEOROLOGICAL DATA WORKSHEET											
	METEOROLOGICAL DATA WORKSHEET											
Part A - MET Tower Worksheet												
1. Date and Time of observations:/,,												
 If using ERDADS, press the purple RAD key on the ERDADS keyboard. For a terminal outside the Control Room, to change from one unit to the other, type PUP (space) UNIT# (where # is either 3 or 4) and press EXEC (execute). 												
3.	Copy the	e obser	vations into t	he following ta	ble:							
				Sour	ce of t	he Met Data			1	7		
		Desire	d Data	Primary	1	Backup	,	Value	Unit			
		Wind	Speed	10m Tow	er	So Dade (6 Tower	0m)		mph			
	Win	d (from) Direction	10m Tower		So Dade (6 Tower	0m)		degrees			
	Prim	ary Sta Indic	ability Class So Dade (60m) cator Tower Delta-T, ΔT		///////////////////////////////////////	///		deg F / 50 meters				
	Alterr	nate Sta Indic	ability Class ator	//////////////////////////////////////			degrees					
	Ambie	ent Air	Temperature	ERDADS Airport					degrees F			
	NOTE:	If th an a exar be L	e wind direct dditional sect nple, if the w , M, N, and P		on the dded from	e edge of two to the protect 78°, then the	sector ive act affect	rs (e.g., 1 ion record ed sector	mmendations	s. F shou		
			cted Sectors	Wind From		cted Sectors			Affected Se			
	8 - 11 1 - 33		I J K J K L	123 - 146 146 - 168		P Q R Q R A		3 - 281 - 303		F G		
	3 - 56			168 - 191		RAB		- 303 - 326		<u>н</u>		
	6 - 7 8	i		191 - 213		ABC		6 - 348	GH			
, J	- 101	N		213 - 236		BCD			Note:	-		
I	101 - 123 N P Q							<u>Note</u> : there is no sector I and O				

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Off-site Dose Calculations

ATTACHMENT 1 (Page 2 of 7)

METEOROLOGICAL DATA WORKSHEET

Part A - Met Tower Worksheet

5. Using the Stability Class Indicator, determine and circle the Stability Class:

If using Delta-T, ΔT	if using Sigma-Theta, σθ	Stability Class
ΔT ≤ −1.7	σ θ ≥ 22.5	A
-1.7 < ΔT ≤ -1.5	22.5 > σθ ≥ 17.5	В
-1.5 < ΔT ≤ -1.4	17.5 > σθ ≥ 12.5	С
$-1.4 < \Delta T \leq -0.5$	12.5 > σθ ≥ 7.5	D
-0.5 < ΔT ≤ +1.4	7.5 > σθ ≥ 3.8	E
+1.4 <ΔT ≤ +3.6	3.8 > σθ ≥ 2.1	F
+3.6 < ΔT	2.1 > σθ	G

6.

Evaluate Seabreeze Impact, if any of the following four is No, then Impact is NO.

CIRCLE IMPACT: YES NO

- a. Stability Class is A, B, or C
- b. Time of day is 6 a.m. to 7 p.m.
- c. Wind is from: \geq 20 degrees to \leq 220 degrees.
- d. Observed Air Temperature is above (i.e., warmer than) value in table (default is YES)

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
66	68	73	77	80	84	86	85	84	80	74	69

7. <u>Select the Dose Calculation Worksheet (Attachment 2).</u>

lf Stability Class Is	And Seabreeze Impact Is	Then Use Worksheet #	lf Stability Is	And Seabreeze Is	Then Use #
A	YES	1	С	NO	6
A	NO	2	D	N/A	7
В	YES	3	Е	N/A	8
В	NO	4	F	N/A	9
C	YES	5	G	N/A	10

8. Copy information to Attachment 2:

- a. WIND DIRECTION, AFFECTED SECTORS and METHOD to Line A.
- b. WIND SPEED to Lines 2 and 9.
- c. Place a check in the blank to the left of Met Tower on Line A.
- 9. This worksheet is completed, proceed to release rate determination, Attachment 3.

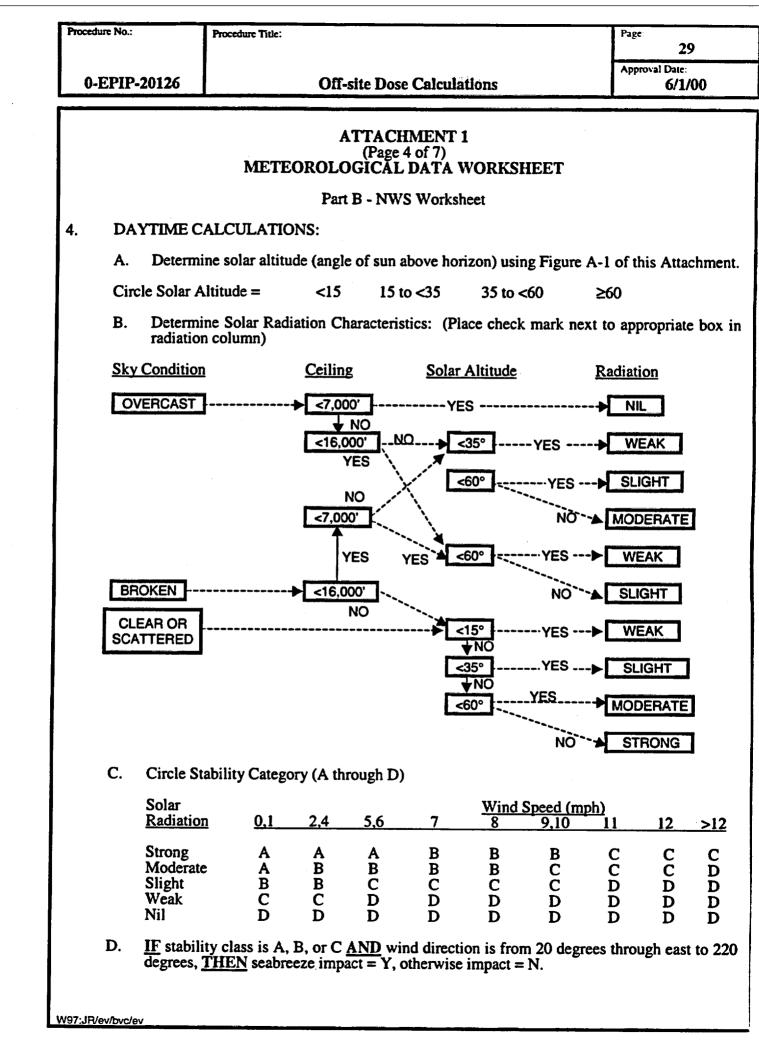
		F							P	28
0.	-EPIP-	20126		Off-s	ite Dos	e Calcul	ations		^	Approval Date: 6/1/00
				A		HMENT 3 of 7)	'1			
			METE	OROLO	•	-	WORKS	HEE	ſ	
				Part]	B - NW	'S Works	sheet			
in the	: event d	ata is unavaila	ible from the π	ieteorologic	al strip c'	hart record	der or ERD	ADS, us	e the follow	ving procedure:
1.	GAT	THER DATA								
	· A.	Date:		Time:_			of	observa	tions	
	В.		onal Weather S							ted to lead forecas
	C.	Copy Curre conditions a		WIND WIND	DIREC	TION: :	Clear or Scattere Broken:	r ed:	Degre	H)
				THEN		ling heigh	ıt:			·
2.	<u>IF</u> D.	AYTIME (1 h	our after sunri	se to 1 hour	001010.0		-21.7 80 10 1	· · ·	• •	
2. 3.			our after sunri				<u></u> go to t			
		HTTIME CAL		5			<u></u> 60 to 1			
	NIGH A.	HTTIME CAL	CULATIONS	5	stics:			diation		
	NIG I A. <u>Sky C</u>	HTTIME CAL Determine S	CULATIONS	n Characteri:	stics:	YES		diation		
	NIGH A. <u>Sky C</u> OV	HTTIME CAL Determine S Condition /ERCAST	CULATIONS	Characteri	stics:		Rac > NO			
	NIGH A. <u>Sky (</u> OV	HTTIME CAL Determine S Condition ERCAST	CULATIONS	Characteri	stics:		<u>Rac</u> ▶	NIL	LOSS	
	NIGH A. Sky (OV BR(HTTIME CAL Determine S Condition /ERCAST	CULATIONS Solar Radiation	n Characteri: Ceiling 	stics:		<u>Rac</u> ▶	NIL		
	NIGH A. Sky C OV BR(CLI B.	HTTIME CAL Determine S Condition ERCAST	CULATIONS	Ceiling	stics: 3 30 [•] 3 3)	YES	<u>Rac</u> ▶	NIL	LOSS	
	NIGH A. Sky (OV BR(HTTIME CAL Determine S Condition ERCAST	CULATIONS Solar Radiation	Ceiling	stics:	YES	<u>Rac</u> ▶	NIL	LOSS	DVE
	NIGH A. <u>Sky C</u> OV BR(CLH B. Solar	HTTIME CAL Determine S Condition ERCAST	CULATIONS Solar Radiation	h Characteri: Ceiling <7,00 L- D through C <u>Winc</u>	stics: 3 30 [•] 3 3)	YES	Rac NO	WEAK I	LOSS G LOSS	Dve
	NIGH A. <u>Sky C</u> OV BR(CLH B. Solar	HTTIME CAL Determine S Condition ERCAST CERCAST CITCLE STADIA Circle Stabil Circle Stabil Mil Weak Loss	CULATIONS Solar Radiation	D through C <u>Winc</u> D through C <u>Winc</u> D	stics: 200 G) d Speed (7 D E	YES (<u>mph)</u> 8 D D	Rac NO NO NO NO NO NO NO NO NO NO NO NO NO	NIL WEAK I STRONG	LOSS G LOSS 12 and abo D D	ove

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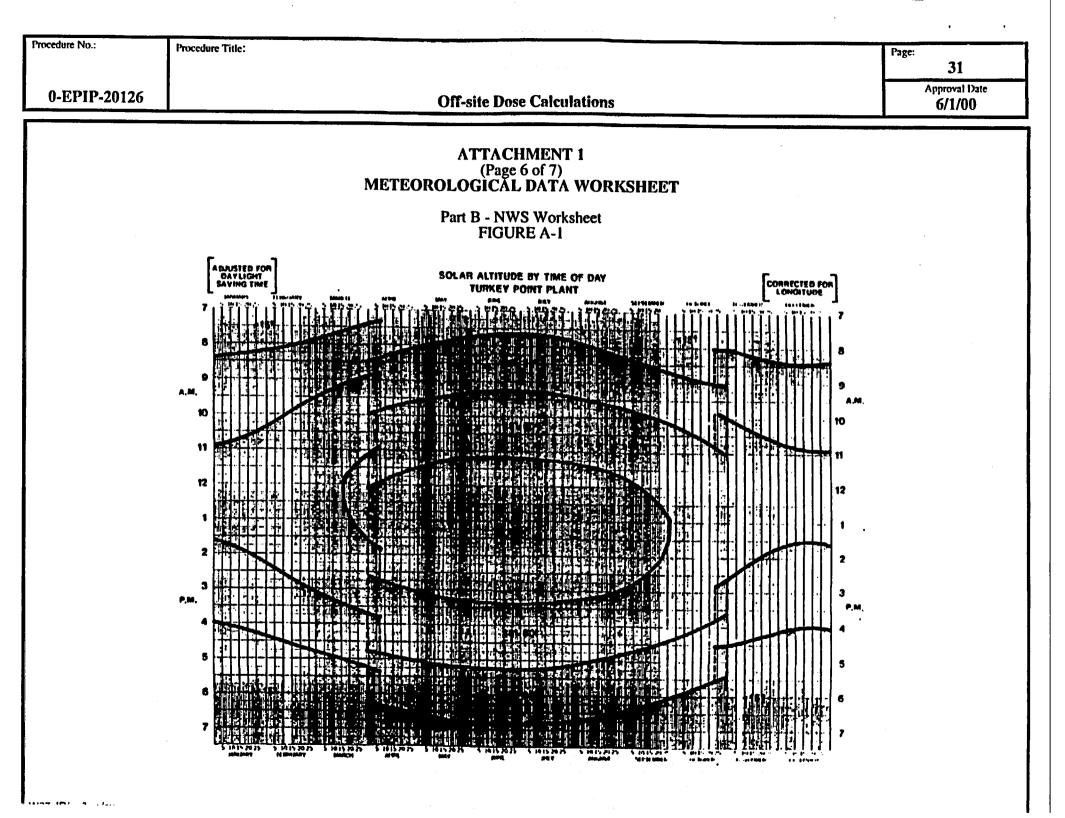
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	0-EPIP-2012	6		Off-site Dose	e Calculations			Арг	oroval Date: 6/1/0	0		
	ATTACHMENT 1 (Page 5 of 7) METEOROLOGICAL DATA WORKSHEET Part B - NWS Worksheet											
3.	5. Using the Wind (from) Direction, circle the AFFECTED SECTORS in the table:											
	<u>NOTE</u> : If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARs should be L, M. N, and P.											
	Wind From	Affe	cted Sectors	Wind From	Affected Sector	ors	Wind Fro	m	Affect Secto			
	348 - 11		нјк	123 - 146	PQR		258 - 28	1	DE	F		
	11 - 33		JKL	146 - 168	QRA		281 - 303		EF	G		
	33 - 56		KLM	168 - 191	RAB		303 - 32	6	FG	Н		
	56 - 78		LMN	191 - 213	ABC		326 - 34	8	GН	J		
	78 - 101		MNP	213 - 236	BCD			No	<u>te</u> :			
	101 - 123	<u> </u>	NPQ	236 - 258	CDE		there i	s no s	sector I or (2		
6.	Select the	e Dose	e Calculation V	Vorksheet (Attac	chment 2).							
	li Stab Cla Is	ility ss	And Seabreeze Impact Is	Then Use Worksheet #	lf Stability Is	Se	And abreeze Is	•	Then Use #			
	A	•	YES	1	С		NO		6			
	A		NO	2	D		N/A		7			
	В		YES	3	E		N/A		8			
	B		NO	4	F		N/A		9			
	C		YES	5	G		N/A		10			
7.	••		on to Attachmolike	ent 2. AFFECTED SH	ECTORS and N	MET	HOD to Li	ine A				
	b. WI	ND S	PEED to Line	s 2 and 9.								
	c. Pla	ce a cl	neck in the blan	nk to the left of I	NWS on Line A	\ .						

8. This worksheet is completed, proceed to release rate determination, Attachment 3.

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Off-site Dose Calculations

ATTACHMENT 1 (Page 7 of 7)

METEOROLOGICAL DATA WORKSHEET

Part C - Default Met Worksheet

<u>NOTE</u>: This method is to be used only if Site Tower and National Weather Service Data is not available.

1. WIND DIRECTION may be based on local observations or other suitable methods of estimation. If Wind Direction is available, determine Affected Sectors, using the table below.

IF WIND DIRECTION DATA IS NOT AVAILABLE, THEN AFFECTED SECTORS IS ALL (SECTORS)

Observed Wind Direction_____, Affected Sectors_____ at Date_____Time____

<u>NOTE</u>: If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARs should be L, M, N, and P.

Wind From	Affected Sectors	Wind From	Affected Sectors	Wind From	Affected Sectors
348 - 11	НЈК	123 - 146	PQR	258 - 281	DEF
11 - 33	JKL	146 - 168	QRA	281 - 303	EFG
33 - 56	KLM	168 - 191	RAB	303 - 326	FGH
56 - 78	LMN	191 - 213	АВС	326 - 348	GHJ
78 - 101	MNP	213 - 236	BCD	No	<u>te</u> :
101 - 123	NPQ	236 - 258	CDE	there is no s	ector I or O

2. IF Daytime Hours (1 hour after sunrise and 1 hour before sunset) THEN:

Select DOSE CALCULATION WORKSHEET 8, (Stability Class E, Seabreeze Impact = N/A)

Check DEFAULT method in Line A

Wind Speed = 5 mph in line 2 and 9

Copy Affected Sectors, from Step 1, to Line A

Use of this method is complete, proceed to release rate determination, Attachment 3

3. IF Not Daytime Hours THEN:

Select DOSE CALCULATION WORKSHEET 9, (Stability Class F, Seabreeze Impact = N/A)

Check DEFAULT method in Line A

Wind Speed = 5 mph in line 2 and 9

Copy Affected Sectors, from Step 1, to Line A

Use of this method is complete, proceed to release rate determination, Attachment 3

ocedure No.:	:	Procedure Title:				Page:	33	
0-EPIP-20126 Off-site Dose			se Calculations				oroval Date: 6/1/00	
		ATTAC (Page DOSE CALCULAT	HMENT 2 1 of 10) ION WOF		rs			
. Me Ch	HEET 1 et Summary: eck method u lease Rate det	STABILITY CLASS = A Wind Direction (from) sed: Met Tower ermined by:	A N Grab	Affected Sect WS	orsDefault Effluent M	t Ion		
ate and tin	ne of starting	calculations:						
		Follow the instructions t	o calculat	te doses	ø		Use	
Line	Instruc	tions for THYROID DOSES	1 mile	2 miles	5 miles	10 miles	Code	
1	Enter the lo	odine Release Rate, Ci/sec		· · · · · · · · · · · · · · · · · · ·			SNF	
2	Enter the V	Vind Speed, mph					SNF	
3	Divide Line	1 by Line 2						
4	lodine Dos	e Factors	2.2 E+ 4	8.1 E+3	2.2 E+3	7.8 E+2		
5		e 3 by Line 4 to obtain DOSE (CDE) RATE, mrem/hr					SNF	
6	Enter Dura	tion of release, hours					SNF	
7		e 5 by Line 6 to obtain DOSE (CDE), mrem					PAR	
• SNF	(State Notif	lication Form); PAR (Protective	Action Reco	mmendatio	n Workshee	et)		
Line		for TOTAL WHOLE BODY DOSES	1 mile	2 miles	5 miles	10 miles		
8	Enter Nobl	e Gas Release Rate, Ci/sec		.			SNF	
9	Enter the V	Vind Speed, from Line 2 above						
10	Divide Line	8 by Line 9						
11	Enter the P	articulate Factor (PF)						
12	Multiply Lin	e 10 by Line 11						
13	Noble Gas	Dose Factors	6.1	2.3	0.64	0.22		
14	Multiply Lin	e 12 by Line 13						
15	Enter (Line	5 multiplied by 0.04)						
16		4 and Line 15 to obtain SE (TEDE) RATE, mrem/hr					SNF	
17	Enter Dura	tion of release, hours						
18		e 16 by Line 17 to obtain SE (TEDE), mrem					PAR	
19	Forward thi	is worksheet (or a copy) to the E	nergency C	oordinator {	RM if done	in EOF}		
20		lations completed; continue mor						

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		Procedure Title:				Page:	34
0-EPI	P-20126	Off-site D	ose Calcula	ose Calculations			
		ATTA (Pag DOSE CALCULA	CHMENT c 2 of 10) TION WO	2 RKSHEE'	TS		· · · · · · · · · · · · · · · · · · ·
. –	SHEET 2	STABILITY CLASS = A	SEABRE	EZE IMPA	CT = NO	UN	IT
C	heck method us	Wind Direction (from) ed: Met Tower	N	IWS	Defau	lt l	
. R	elease Rate det	ermined by:	Grab	A	Effluent N	10n	Defa
ate and ti	me of starting o	calculations:	CINCU	*		nt	
		Follow the instructions	to calcula	te doses	Ø		Use
Line	Instruct	tions for THYROID DOSES	1 mile	2 miles	5 miles	10 miles	Code
1	Enter the lo	dine Release Rate, Ci/sec					SNF
2	Enter the W	ind Speed, mph				·	SNF
3	Divide Line	1 by Line 2					
4	Iodine Dose	Factors	3.6 E+3	1.8 E+3	7.7 E+2	3.9 E+2	-
5	Multiply Line	e 3 by Line 4 to obtain OSE (CDE) RATE, mrem/hr					SNF
6	Enter Durat	ion of release, hours					SNF
7	Multiply Line	5 by Line 6 to obtain OSE (CDE), mrem					PAR
· SNE	- (State Notific	cation Form); PAR (Protective	Action Beco	mmendation	Workshee	f)	
Line		or TOTAL WHOLE BODY DOSES	1 mile	2 miles	5 miles	10 miles	
8	Enter Noble	Gas Release Rate, Ci/sec			0.111.00		SNF
9	Enter the Wi	nd Speed, from Line 2 above					0
10	Divide Line 8						
11	Enter the Pa	rticulate Factor (PF)			,		
12	Multiply Line	10 by Line 11					
13	Noble Gas	Dose Factors	1.0	0.5	0.22	0.11	
14	Multiply Line	12 by Line 13	1				
15	Enter (Line 5	multiplied by 0.04)					
16	Add Line 14 TOTAL DOS	and Line 15 to obtain E (TEDE) RATE, mrem/hr					SNF
17		on of release, hours	••••··································				
18	Multiply Line	16 by Line 17 to obtain E (TEDE) mrem					PAR
19	Forward this	worksheet (or a copy) to the Er	nergency Co	ordinator (F	RM if done i		
20		tions completed; continue mon				•	

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rocedure No.	-	Procedure Title:					Page:	35
0-EPI	P-20126		se Calculations				Approval Date: 6/1/00	
		DOSI	ATTAC (Page E CALCULAT	HMENT 2 3 of 10) ION WOI		ſS		· _
. M	HEET 3 et Summary:	Wind Direction	CLASS = B (from)	/	Affected Sect	tors		Т
. Re	lease Rate det	termined by:	_ Met Tower	Grab		Effluent M	lon	Defa
		calculations:		CHRRM	, 	_ Attachme	ht	
	ne or surring		nstructions to	o calculat	te doses	6	· · · · · · · · · · · · · · ·	Use
Line	Instruc	tions for THYR			2 miles	5 miles	10 miles	Code
	Enter the k	odine Release I	Rate, Ci/sec		<u> </u>	1	1	SNF
2		Vind Speed, mp						SNF
3		1 by Line 2	<u> </u>			······································		
4	Iodine Dos	• · · · ·		3.0 E+4	1.1 E+4	3.0 E+3	1.1 E+3	
5	Multiply Line 3 by Line 4 to obtain THYROID DOSE (CDE) RATE, mrem/hr							SNF
6	Enter Duration of release, hours					L		SNF
7	Multiply Line 5 by Line 6 to obtain THYROID DOSE (CDE), mrem							PAR
* SNF	F (State Notif	ication Form); F	PAR (Protective A	Action Record	nmendation	n Workshee	t)	
Line	Instructions	for TOTAL WHOL	E BODY DOSES	1 mile	2 miles	5 miles	10 miles	
8	Enter Nobl	e Gas Release	Rate, Ci/sec					SNF
9	Enter the W	/ind Speed, from	n Line 2 above					
10	Divide Line	8 by Line 9	· · · · · · · · · · · · · · · · · · ·					
11	Enter the P	articulate Factor	(PF)					
12	Multiply Lin	e 10 by Line 11						
13	Noble Gas	Dose Factors		8.3	2.9	0.84	0.30	
14	Multiply Lin	e 12 by Line 13						
15	Enter (Line	5 multiplied by ().04)					
16	Add Line 14 and Line 15 to obtain TOTAL DOSE (TEDE) RATE, mrem/hr							SNF
17	Enter Dura	tion of release,	hours					
18		e 16 by Line 17 SE (TEDE), mre					PAR	
19	Forward thi	s worksheet (or	a copy) to the En	nergency Co	oordinator {	RM if done	in EOF}	
20			ed; continue mon		<u>`</u>		· · · · ·	· · · · ·

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0-EPIP-20126 Off-site Dos				se Calculations			
		ATTA (Pa DOSE CALCUL	ACHMENT (age 4 of 10) ATION WO		ſS		
N	SHEET 4 fet Summary:	Wind Direction (from)		Affected Sect	tors		IT
C R	heck method us elease Rate det	sed: Met Tower ermined by:	N Grab CHRRM	rws	Defaul Effluent M	t Aon	De
e and t	ime of starting	calculations:		·			
		Follow the instruction	s to calcula	te doses	0		Us
Line	Instruc	tions for THYROID DOSES	1 mile	2 miles	5 miles	10 miles	Cod
1	Enter the lo	odine Release Rate, Ci/sec					SNF
2	Enter the W	/ind Speed, mph				·	SNF
3	Divide Line	1 by Line 2					
4	Iodine Dose	e Factors	2.3 E+4	5.9 E+3	1.1 E+3	5.7 E+2	
5		e 3 by Line 4 to obtain DOSE (CDE) RATE, mrem/hr					SNF
6	Enter Dura	tion of release, hours		* <u> </u>			SNF
7		e 5 by Line 6 to obtain DOSE (CDE), mrem					PAR
• SN	F (State Notif	ication Form); PAR (Protectiv	ve Action Reco	mmendation	n Workshee	et)	
Line	Instructions f	or TOTAL WHOLE BODY DOSE	S 1 mile	2 miles	5 miles	10 miles	
8	Enter Noble	e Gas Release Rate, Ci/sec		I			SNF
9	Enter the W	Ind Speed, from Line 2 abov	e				
10	Divide Line	8 by Line 9					
11	Enter the Pa	articulate Factor (PF)					
12	Multiply Line	e 10 by Line 11					-
13	Noble Gas	Dose Factors	6.4	1.6	0.31	0.15	
14	Multiply Line	e 12 by Line 13					
15	Enter (Line	5 multiplied by 0.04)					
16		and Line 15 to obtain SE (TEDE) RATE, mrem/hr					SNF
17	Enter Durat	ion of release, hours		· · · · · · · · · · · · · · · · · · ·			
18	Multiply Line	e 16 by Line 17 to obtain SE (TEDE), mrem					PAR
19	Forward this	worksheet (or a copy) to the	Emergency C	oordinator {	RM if done	in EOF}	
20	Dose Calcul	ations completed; continue m	onitoring relea	ses and ass	sessing dos	es.	

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Procedure No.: Procedure Title:						Page:	37	
0-EPII	P-20126	· .	se Calculat		pproval Date: 6/1/00			
		DOSI		HMENT 2 5 of 10) ION WOI				
VORKS	HEET 5	STABILITY	CLASS = C	SEABRE	EZE IMPA(CT = YES	UNI	IT
. Me	et Summary:	Wind Direction ((from) Met Tower	/	Affected Sec	tors		
. Re	lease Rate det	termined by:		Grab	wo	Effluent N	1 10n	Defa
ate and tin	ne of starting	calculations:		CHRRM		_ Attachmer	nt	
			nstructions to	o calculat	te doses	Q		Use
Line	Instruc	tions for THYRO		1 mile	2 miles	5 miles	10 miles	Code
1		odine Release R			6 1111-0	0	10111100	SNF
2		Vind Speed, mpt						SNF
3		1 by Line 2		<u> </u>	<u> </u>			SNF
4	Iodine Dose		······	5.9 E+4	1.7 E+4	3.7 E+3	1.5 E+3	
5	Multiply Line 3 by Line 4 to obtain THYROID DOSE (CDE) RATE, mrem/hr					0		SNF
6	Enter Duration of release, hours							SNF
7	Multiply Line 5 by Line 6 to obtain THYROID DOSE (CDE), mrem					i		PAR
• SNF	· · · · · · · · · · · · · · · · · · ·		AR (Protective A	Action Recor	mmendatio	n Workshee	et)	1
Line		for TOTAL WHOLE		1 mile	2 miles	5 miles	10 miles	
8	Enter Noble	e Gas Release F	Rate, Ci/sec					SNF
9		/ind Speed, from				<u> </u>		
10	Divide Line	****						
11	Enter the Pr	articulate Factor	(PF)					
12	Multiply Line	e 10 by Line 11						i
13	Noble Gas	Dose Factors		16.0	4.6	1.1	0.42	ĺ
14	Multiply Line	e 12 by Line 13						
15	Enter (Line	5 multiplied by 0	.04)					
16	Add Line 14 and Line 15 to obtain TOTAL DOSE (TEDE) RATE, mrem/hr							SNF
17	Enter Durat	tion of release, h						
18	Multiply Line	e 16 by Line 17 to SE (TEDE), m rer					PAR	
19	Forward this	s worksheet (or a	a copy) to the Em	hergency Co	ordinator {	RM if done	in EOF}	
			d; continue moni					

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rocedure No.	•	Procedure Title:				Page	38
0-EPII	P-20126	Off-site Do	ose Calculat	tions		Approval I	bate: 5/1/00
A. Me	HEET 6 et Summary: eck method u lease Rate det	(Page DOSE CALCULA' STABILITY CLASS = C Wind Direction (from) sed: Met Tower termined by:	SEABRE	RKSHEET EZE IMPA Affected Sec WS	CT = NO tors Defaul Effluent M	t Ion	
ate and tir	ne of starting	calculations:	CHRRM /	·	Attachmer	nt	
		Follow the instructions	to calculat	te doses	Ø		Use
Line	Instruc	tions for THYROID DOSES	1 mile	2 miles	5 miles	10 miles	Code
1	Enter the lo	odine Release Rate, Ci/sec					SNF
2	Enter the W	Vind Speed, mph				<u></u>	SNF
3	Divide Line	1 by Line 2				<u> </u>	
4	Iodine Dos	e Factors	5.9 E+ 4	1.7 E+4	3.1 E+3	9.1 E+2	
5		e 3 by Line 4 to obtain DOSE (CDE) RATE, mrem/hr				SNF	
6	Enter Dura	tion of release, hours					SNF
7		e 5 by Line 6 to obtain DOSE (CDE), mrem					PAR
* SNF	- (State Notif	ication Form); PAR (Protective	Action Reco	mmendatio	n Workshee	it)	•
Line	Instructions	for TOTAL WHOLE BODY DOSES	1 mile	2 miles	5 miles	10 miles	
8	Enter Noble	e Gas Release Rate, Ci/sec	<u> </u>	·	·····		SNF
9	Enter the W	/ind Speed, from Line 2 above					
10	Divide Line	8 by Line 9					
11	Enter the P	articulate Factor (PF)					
12	Multiply Lin	e 10 by Line 11			·······		
13	Noble Gas	Dose Factors	16.0	4.6	0.88	0.26	
14	Multiply Lin	e 12 by Line 13					
15	Enter (Line	5 multiplied by 0.04)					
16		and Line 15 to obtain SE (TEDE) RATE, mrem/hr					SNF
17	Enter Durat	tion of release, hours					
18	Multiply Line	e 16 by Line 17 to obtain SE (TEDE), mrem					PAR
19	Forward this	s worksheet (or a copy) to the E	mergency C	oordinator {	RM if done	in EOF}	
20	Dose Calcu	lations completed; continue mo	nitoring relea	see and as	eoesina dos	<u> </u>	

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0-EPI	P-20126	Off-site De	ose Calcula	tions		Approval [Date: 6/1/00
VODVS	HEET 7	(Pag DOSE CALCULA		RKSHEE			
M Ch Re	et Summary: neck method us clease Rate det	STABILITY CLASS = D Wind Direction (from) sed: Met Tower ermined by:	SEABRE	Affected Sec WS	LI = N/A torsDefaul Effluent N	UNI it iton	IT Defa
ate and the	me of starting (calculations:	 /	·			
		Follow the instructions	to calcula	te doses	e		Use
Line	Instruc	tions for THYROID DOSES	1 mile	2 miles	5 miles	10 miles	Code
1	Enter the lo	dine Release Rate, Ci/sec		I	I	<u>!</u>	SNF
2	Enter the W	/ind Speed, mph					SNF
3		1 by Line 2				······	
4	Iodine Dose	Factors	1.6 E+5	5.9 E+4	1.6 E+4	5.7 E+3	
5		e 3 by Line 4 to obtain DOSE (CDE) RATE, mrem/hr					SNF
6	Enter Duration of release, hours						
7		e 5 by Line 6 to obtain DOSE (CDE), mrem					PAR
* SNF	- (State Notifi	cation Form); PAR (Protective	Action Reco	mmendatio	n Workshee	et)	
Line		or TOTAL WHOLE BODY DOSES	1 mile	2 miles	5 miles	10 miles	
8	Enter Noble	Gas Release Rate, Ci/sec					SNF
9	Enter the W	ind Speed, from Line 2 above					
10	Divide Line	B by Line 9					
11	Enter the Pa	articulate Factor (PF)					
12	Multiply Line	e 10 by Line 11					
13	Noble Gas	Dose Factors	44.0	17.0	4.4	1.6	
14	Multiply Line	12 by Line 13					
15	Enter (Line !	5 multiplied by 0.04)					
16		and Line 15 to obtain SE (TEDE) RATE, mrem/hr					SNF
17	Enter Durat	ion of release, hours	<u> </u>				
18	Multiply Line	16 by Line 17 to obtain SE (TEDE), mrem					PAR
19	Forward this	worksheet (or a copy) to the E	mergency Co	ordinator (RM if done	in EQF1	
20		ations completed; continue mor		•			

		Procedure Title:						40
0-EPII	P-20126		Off-site Do	se Calculat	tions	<u></u> .	Approval D	ate: 5/1/00
			(Page E CALCULAT		RKSHEET			
Me	t Summary:	Wind Direction	CLASS = E (from)	ļ.	Affected Sect	tors		Т
Ch	eck method u	sed:	_ Met Tower	N	WS	Default	 L	D .6
Re	lease Rate det	ermined by:	Met Tower	Grab CHRRM		_ Effluent M _ Attachmer	ion	
ate and tin	ne of starting	calculations:		I				
		Follow the I	nstructions t	o calculat	te doses	@		Use Code
Line	Instruc	tions for THYR	1 mile	2 miles	5 miles	10 miles	*	
1	Enter the lo	odine Release I	Rate, Ci/sec					SNF
2	Enter the V	/ind Speed, mp	h					SNF
3	Divide Line	1 by Line 2						
4	Iodine Dos	e Factors	2.9 E+5	1.2 E+5	3.6 E+4	1.5 E+4		
5		e 3 by Line 4 to DOSE (CDE) R/					SNF	
6	Enter Duration of release, hours							SNF
7		e 5 by Line 6 to DOSE (CDE), m					PAR	
* SNF	(State Notif	ication Form); F	PAR (Protective	Action Reco	mmendatio	n Workshee	et)	
Line	Instructions	or TOTAL WHOL	E BODY DOSES	1 mile	2 miles	5 miles	10 miles	
8	Enter Nobl	e Gas Release	Rate, Ci/sec			L <u></u>	·····	SNF
9	Enter the W	/ind Speed, from	n Line 2 above					
10	Divide Line	8 by Line 9						
11	Enter the P	articulate Factor	· (PF)					
12	Multiply Lin	e 10 by Line 11			·····			
13	Noble Gas	Dose Factors	·· · ·	81.0	33.0	10.0	4.0	
14	Multiply Lin	e 12 by Line 13						
15	Enter (Line	5 multiplied by (0.04)					
16		and Line 15 to SE (TEDE) RAT						SNF
17	Enter Durat	tion of release,	hours					
18		e 16 by Line 17 SE (TEDE), mre						PAR
19	Forward thi	s worksheet (or	a copy) to the Ei	nergency C	oordinator {	RM if done	in EOF}	
20	Dose Calcu	lations complete	ed; continue mor	itoring relea	ses and as	sessina dos	Ses.	

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rocedure No).:	Procedure Title:				Page:	41
0-EPI	P-20126	Off-site Do	se Calculat	tions		Approval D	bate: 5/1/00
		ATTAC (Page DOSE CALCULAT	CHMENT 2 9 of 10) FION WOF		rs		
	SHEET 9 let Summary:	STABILITY CLASS = F Wind Direction (from) sed: Met Tower					т
. R	elease Rate det	ermined by:	Grab		_ Effluent M	Ion	Defat
ate and ti	me of starting	calculations:	<u>/</u>				¥
		Follow the instructions t	to calculat	te doses	@		Use Code
Line	Instruc	tions for THYROID DOSES	1 mile	2 miles	5 miles	10 miles	*
1	Enter the k	odine Release Rate, Ci/sec				·	SNF
2	Enter the V	Vind Speed, mph					SNF
3	Divide Line	1 by Line 2					
4	Iodine Dose	e Factors	5.2 E+5	2.3 E+5	7.7 E+4	3.6 E+4	
5	Multiply Lin	e 3 by Line 4 to obtain DOSE (CDE) RATE, mrem/hr					SNF
6	Enter Duration of release, hours						SNF
7		e 5 by Line 6 to obtain DOSE (CDE), mrem					PAR
* SN	F (State Notif	ication Form); PAR (Protective	Action Recor	mmendation	n Workshee	t)	
Line	T	for TOTAL WHOLE BODY DOSES	1 mile	2 miles	5 miles	10 miles	
8	Enter Nobl	e Gas Release Rate, Ci/sec	<u>+</u>		1	I	SNF
9	Enter the W	/ind Speed, from Line 2 above					
10	Divide Line	8 by Line 9					
11	Enter the P	articulate Factor (PF)					· ·
12	Multiply Lin	e 10 by Line 11					
13	Noble Gas	Dose Factors	1.5 E+2	6.6 E+1	2.2 E+1	9.5 E 0	
14	Multiply Lin	e 12 by Line 13					
15	Enter (Line	5 multiplied by 0.04)					
16		and Line 15 to obtain SE (TEDE) RATE, mrem/hr					SNF
17	Enter Durat	tion of release, hours					
18		e 16 by Line 17 to obtain SE (TEDE), mrem					PAR
19	Forward this	s worksheet (or a copy) to the E	mergency C	oordinator {	RM if done	in EOF}	
20	Dose Calcu	lations completed; continue mor	nitoring relea	ses and as	sessing dos	es.	

0-E P]	P-20126	Off-site D	ose Calculat	tions		Approval D	42 hate: 5/1/00
			CHMENT 2 e 10 of 10) TION WOI		rs		
VORKS	SHEET 10 fet Summary:	STABILITY CLASS = G Wind Direction (from)	SEABRE	EZE IMPAC	CT = N/A		Т
. R	elease Rate det	Wind Direction (from) sed: Met Tower termined by:	N Grab CHRRM	ws	Defaul Effluent M Attachmer	t Ion nt	Def
ate and t	ime of starting	calculations:					
		Follow the instructions	to calcula	te doses	@		Use Code
Line	Instruc	tions for THYROID DOSES	1 mile	2 miles	5 miles	10 miles	•
1	Enter the le	odine Release Rate, Ci/sec		·			SNF
2	Enter the V	Vind Speed, mph					SNF
3	Divide Line	1 by Line 2				<u></u>	
4	lodine Dos	e Factors	9.1 E+5	4.6 E+5	1.7 E+5	7.7 E+4	
5		e 3 by Line 4 to obtain DOSE (CDE) RATE, mrem/hr					SNF
6	Enter Dura	tion of release, hours				······································	SNF
7		ie 5 by Line 6 to obtain DOSE (CDE), mrem					PAR
· SN	IF (State Noti	lication Form); PAR (Protective	e Action Reco	mmendatio	n Workshee	et)	
Line	Instructions	for TOTAL WHOLE BODY DOSES	S 1 mile	2 miles	5 miles	10 miles	
8	Enter Nobl	e Gas Release Rate, Ci/sec			· · · · · · · · · · · · · · · · · · ·	<u> </u>	SNF
9	Enter the V	Vind Speed, from Line 2 above			<u> </u>		
10	Divide Line	8 by Line 9		· •			
11	Enter the P	Particulate Factor (PF)					
12	Multiply Lin	e 10 by Line 11					
13	Noble Gas	Dose Factors	2.4 E+2	1.2 E+2	4.8 E+1	2.2 E+1	
14	Multiply Lin	e 12 by Line 13					
15	Enter (Line	5 multiplied by 0.04)					
16		4 and Line 15 to obtain DSE (TEDE) RATE, mrem/hr					SNF
17	Enter Dura	tion of release, hours				·	
18		e 16 by Line 17 to obtain SE (TEDE), mrem					PAR
19	Forward thi	is worksheet (or a copy) to the	Emergency C	oordinator {	RM if done	in EOF}	
20	Dose Calcu	ulations completed; continue m	onitoring relea	ises and as	sessing dos	ses.	

Pro	cedure No.:	Procedure Title:				Page	43
						Approva	
	0-EPIP-20126		Off-site Dos	se Calculation	ns		6/1/00
		DADIC		HMENT 3 2 1 of 6))VQUEET		
			rt A - Grab San				
1.	Date:	and Time		•		nit	·
2.		ency Coordinator fo					
	b. Potential c. Is the con	Type: Duration of Relea re overheating/mel	se (if unknown, us ting? (circle):	YES	NO	ours	. <u> </u>
3.		verheating or melting					
4 . 5 . 6 .	a. <u>IF</u> loding found on Noble G Determine pathy a. For Plant Plant ver <u>IF</u> Plant 2 of 6.	Vent Sping Ch. 10 n Steam Lines, refe	Vailable, <u>THEN</u> c Iodine Conc) X for plant vent and s shown below: rate (cfm) x 472 = X 472 =) data is not availa er to Page 2 of 6. Release Rate,	IRRF =	n below, using Iou ffected). ate (cc/sec) PV the Plant Vent	g the Iodine Relea dine (μCi/cc) / (cc/sec) Fan Configuratio	ase Rate Factor,
	I duiway		µCi/cc x Flow	r cc/sec x µCi to	o Ci =Noble G	as Iodine	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Plant Vent	Noble Gas Iodines			I E -6		
	Main Steam Lines	Noble Gas Iodines			I E -6		///////////////////////////////////////
	Cond Air Ejector	Noble Gas Iodines		1.42E 4	1 E -6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	///////////////////////////////////////
	U-3 Fuel	Noble Gas		9.43E 6	I E -6		///////////////////////////////////////
	Pool Vent	Iodines				///////////////////////////////////////	<u> </u>
7.	Calculate Site R	elease Rate:					
	Total the Release Rates						
	Enter other Release Rate Add to obtain Site Release						
8.	a. Place a c b. Enter the c. Enter the	elease Rates in Att heck in the blank t Noble Gas Release Iodine Release R	to the left of Grab se Rate into Line 8 ate into Line 1.	3.			
	e. Enter the	Duration (if 2 affe PF (Particulate Fe	actor) (if 2 affecte	d units, use large			
9.	This worksheet	is done, follow the	instructions on A	machment 2.			

W97:JR/ev/bvc/ev

Procedure Title:

0-EPIP-20126

Off-site Dose Calculations

ATTACHMENT 3 (Page 2 of 6)

RADIOACTIVE RELEASE WORKSHEET

Part A - Grab Sample Data Worksheet

Iodine Release Rate Factors (IRRF)

Plant Condition	IRRF
LOCA and Emergency Containment Filter(s) in use	0.011
LOCA and Emergency Containment Filter(s) not in use	0.063
Fuel Handling	0.001
Steam Generator Tube Rupture	6.8E-4
Waste Gas Decay Tank or VCT release	1E - 06

Plant Vent Exhaust Fan Configuration Table

CONTAINMENT PURGE	AUXILIARY BUILDING	SPENT FUEL PIT	RADWASTE BUILDING	LAUNDRY SYSTEM	PLANT VENT FLOW cc/sec
0	0	1	2	1	1.45 E+7
0	1	1 .	2	1	3.82 E+7
0	2	1	2	1	4.31 E+7
1	. 1	1	2	1	4.74 E+7
1	2	1	2	1	5.07 E+7
2	1	1	2	1	5.66 E+7
2	2	1	2	1	5.99 E+7

Main Steam Line Flow

- I) Atmospheric Dump Valves (1 per line): Each 1.33 E+4 cc/sec
 II) Each S/G safety relief valve (four per steam line): 1.1 E+5 cc/sec each
 III) Exhaust from Each Aux Feed Pump: 3.4 E+3 cc/sec each
- IV) IF time and data permits, THEN average the flow as shown below, ELSE assume a constant flow rate.

athway cc/sec	X	Amount of OPEN time, sec or min Averaging Period: 1800 sec or 30 min	=	Average cc/sec
cc/sec		x	= _	cc/sec

W97:JR/ev/bvc/ev

Procedure No.:		Procedure	Title:			;		Page:	45
0-EPIP-20	126			Off-site I	Dose Calc	ulations		Approval Date 6/	: 1/00
					CHMEN age 3 of 6)				
		J	RADIOA	CTIVE R	RELEASE	WORKS	HEET		
			Part B -	Effluent	Monitor D	ata Worksl	neet		
1. Date: _		an	d Time			of	Data, Unit		
2. Ask the	: Emerger	ncy Coord	linator for th	e following	g:				
a	Accident	Туре:							
b . 1	Potential	Duration	of Release (i ting/melting		, use default): YES	hours NO		
			• •		ticulate Facto		else $PF = 1.0;$	enter PF	
—		-				ble of Step 7:			
		-		-	rred over R-				
							or 15 minutes.		
с.	IF using l	DAM-1 (a	lready avera	iged), THE	EN multiply	the reading by	y the number of	f S/Gs f ee ding 1	nonitor:
]	DAM-1 µ	Ci/cc	X	·	S/Gs	being monito	red =	I value for Step	7)
5. Determi	:*h.u			A	A. 4	es (if affected	•	I value for Step	''
					-		J).		
			culate as sho 10 flowrate (t flowrate (co	(sec)		
<u>-</u>		PV	Chl 10 X 47	72 =			PV (cc/se		
	IF Plant Page 4 of		ng Ch. 10 d	ata is not a	available, <u>T</u>	HEN use the	Plant Vent Fa	in Configuratio	n Table on
			nes, refer to	Page 4 of 6	5.				
				-		In En atana	line d an Daas	-66	
			ale racior (1	KKF) IN 10	the table be	low, raciois	listed on Page	+ 01 0.	
7. Calculat	te Releas	e Kates:							
Pathway		•	Monitor		Flow		Noble Gas		Iodine Del Dete
Failway		R-14	Reading	x Cal x 5 E-9	cc/sec x	μCi to Ci = IE-6	Rel. Rate	x IRRF =	Rel. Rate
Plant Ven	د 	SPING		1.0		IE-6		1 .	
Main Stear		DAM-1		1.0		IE-6		1	
		R-15		2.47E-8	1.42E 4	IE-6			
Cond Air Eje	ctor	SPING		1.0	1.42E 4	IE-6			
#3 SFP Ver	nt S	SPING		1.0	9.43E 6	IE-6			
8. Calculat	te Site Re	lease Rate	e:						
Total the Relea									
Enter other Rel			RRM/Other U	nit)					
Add to obtain S	nie Meieas	e nate						//////	
			s in Attachr						
			e blank to th s Release Ra			in Line B to	indicate this mo	ethod.	
			s Release Ra lease Rate ir		U 0.				
d. E	Enter the l	Duration ((if 2 affected	l units, use		Line 6 and 1			
e. E	Enter the l	PF (Partic	culate Factor) (if 2 affe	cted units, us	e largest) int	o Line 11.		

10. This worksheet is done, follow the instructions on Attachment 2.

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Procedure Title:

0-EPIP-20126

Off-site Dose Calculations

ATTACHMENT 3 (Page 4 of 6)

RADIOACTIVE RELEASE WORKSHEET

Part B - Effluent Monitor Data Worksheet

Iodine Release Rate Factors (IRRF)

Plant Condition	IRRF
LOCA and Emergency Containment Filter(s) in use	0.011
LOCA and Emergency Containment Filter(s) not in use	0.063
Fuel Handling	0.001
Steam Generator Tube Rupture	6.8E-4
Waste Gas Decay Tank or VCT release	1E - 06

Plant Vent Exhaust Fan Configuration Table

CONTAINMENT PURGE	AUXILIARY BUILDING	SPENT FUEL PIT	RADWASTE BUILDING	LAUNDRY SYSTEM	PLANT VENT FLOW cc/sec
0	0	1	2	1	1.45 E+7
0	1	1	2	1	3.82 E+7
0	2	1	2	1	4.31 E+7
1	1	1	2	1	4.74 E+7
1	2	1	2	1	5.07 E+7
2	1	1	2	1	5.66 E+7
2	2	1	2	1	5.99 E+7

Main Steam Line Flow

W97:JR/ev/bvc/ev

- I) Atmospheric Dump Valves (1 per line): Each 1.33 E+4 cc/sec
 II) Each S/G safety relief valve (four per steam line): 1.1 E+5 cc/sec each
 III) Exhaust from Each Aux Feed Pump: 3.4 E+3 cc/sec each
- IV) IF time and data permits, THEN average the flow as shown below, ELSE assume a constant flow rate.

Main Steam Line Flow Averaging Method						
Pathway cc/sec	X	Amount of OPEN time, sec or min Averaging Period: 1800 sec or 30 min	=	Average cc/sec		
		×	= _	cc/sec		
cc/sec						
cc/sec		<u></u>				

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				HMENT 3 5 of 6)				
		RADIOA	CTIVE REI	•	RKSHEE	ET		
Pa	urt C - Contai	nment Higl	n Range Radia	tion Monitor	(CHRRN	M) Data Wo	orksheet	
			is method, the	n complete c	one works	heet for eac	h unit)	
 Date an Ask the 	d time of data:_ Emergency Co	ordinator for	//		-			
a. 1	s the core overl	neating/meltin	ig? (circle):	YES		NO		
			(if unknown, us , THEN Particul				r PF	
4. Obtain:	High	est CHRRM r	eading:	R/hr, Elap	sed time sin			
			ternate, estimate 4 =e					
6. Using th	e Elapsed Tim	e, select the C	onversion Factor	(CF), from the	table below	w, for use in S	tep 7.	
	Elapsed Tin	ne, Hr Co	nversion Factor	Elapsed Ti	ime, Hr	Conversion I	Factor	
	ET = 0		1.6 E-6	2.0 < ET		9.0 E-6		
	Ø < ET ≤ 0.5 < ET ≤		2.2 E-6 3.2 E-6	4.0 < ET 8.0 < 1		1.8 E-5 4.8 E-5		
	0.5 <et td="" ≤<=""><td></td><td>5.0 E-6</td><td></td><td></td><td></td><td></td><td></td></et>		5.0 E-6					
7. CHRRN	. CHRRMR/hr X CF=(CFA) (1) for use in Steps 9 and 11.							
3. Determi	ne Noble Gas F	eduction Fac	tor (NGRF), fro	m Table; NGR	F=	, f	for use in Step	9.
et	NGRF	et	NGRF	et	NGRF	et	NGRF	Г
0	1.0	>4 to ≤5	0.44	>9 to ≤10	0.26	>14 to ≤	15 0.16	
>0 to : >1 to :		>5 to ≤6 >6 to ≤7	0.39 0.35	>10 to ≤11 >11 to ≤12	0.23 0.21	>15 to ≤ >16 to ≤		
>2 to	<u>≤3</u> 0.6	>7 to ≤8	0.32	>12 to ≤ 12	0.19	>10 to ≤		
>3 to :	≤40.5	>8 to ≤9	0.28	>13 to ≤14	0.18	>18	0.13	
Calculat	e:(CFA) X	(NGRF) X 10.2	Ci/sec=		Noble Ga	s Release Rat	e, Ci/se
			r(s) IS in use, <u>TI</u>				$n(ICV)^{(2)} = 0$.63.
	e:(CFA e Site Release I		(ICV) =	Iodine Rele	ase Rate, C	i/sec.		
						Noble	Gas Iodi	
a. Enter	the Release Rat	es determined	from this Work	sheet		NODIE		
			THEN enter its re	elease rates				
c. Add 12.a and 12.b to obtain Site Release Rates								
3. Enter the Site Release Rates in Attachment 2.								
a. Place a check in the blank to the left of CHRRM in Line B to indicate this method.								
 b. Enter the Noble Gas Release Rate into Line 8. c. Enter the Iodine Release Rate into Line 1. 								
	d. Enter the Duration (if two affected units, use longest) into Line 6.							
			•		gest) into L	une II.		
I. This worksheet is done, follow the instructions on Attachment 2.								
Footnotes:								
			ne; decimal fra	ction of total	inventory a	assumed to b	e in the con	tainme

ATTACHMENT 3 (Page 6 of 6)

RADIOACTIVE RELEASE WORKSHEET

Part D - Default Values for Radioactive Releases

1. Default data is listed by accident type.

a. For the accident type and plant conditions, select the default data.

b. Copy the default data to the selected worksheet in Attachment 2.

- I. Iodine Release Rate to Line 1
- II. Noble Gas Release Rate to Line 8
- III. Particulate Factor (PF) to Line 11
- c. Place a check in the blank to the left of default on Line B on the selected worksheet in Attachment 2.
- 2. This worksheet is done, follows the instructions on the selected worksheet in Attachment 2.

LOSS OF COOLANT ACCIDENT (LOCA)

Compare hours after reactor trip to table below; see Attachment 4 for methods to adjust these values based on known plant conditions.

Hours post-trip	Duration	Iodine <u>Ci/sec</u>	Noble <u>Ci/sec</u>	PF
0 to 2	2 hours	0.11	10.2	4.4
>2 to 8	2 hours	0.06	5.4	4.4
more than 8	2 hours	0.02	1.6	4.4

STEAM GENERATOR TUBE RUPTURE (SGTR)

Use the listed values until the affected generator is isolated; see Attachment 5 for methods to adjust the values based on known plant conditions.

Duration	Iodine <u>Ci/sec</u>	Noble Gas <u>Ci/sec</u>	PF
1/2 hour	0.0042	6.2	1.0

FUEL HANDLING

Multiply the below listed release rates by the number of known/estimated damaged fuel bundles:

Duration	Iodine <u>Ci/sec</u>	Noble Gas <u>Ci/sec</u>	PF
1/4 hour	0.0047	17.0	1.0

Procedure Title:

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Off-site Dose Calculations

ATTACHMENT 4 (Page 1 of 5)

LOCA RELEASE RATE DETERMINATIONS WORKSHEET

Provides methods to adjust or replace the LOCA default release rates based on known plant parameters. Guidance is provided for coping with containment failure releases, either rapid depressurization or estimated penetration size failure.

 NOTE

 The following methods are provided for guidance. Conditions may warrant an approach

 different than shown; use the factors presented here and elsewhere in this procedure, as

 necessary, to estimate releases. Document the calculations in the applicable facilities

 logbook.

It must be understood that the methodology provided in Attachment 4 includes conservative assumptions, and is intended to provide a means to estimate an upper bound to the release, not an exact release rate.

This Attachment has three methods (LOCA-1 to LOCA-3), select the one that most closely matches the conditions listed below:

<u>IF</u> the CHRRM is operational <u>AND</u> containment integrity is not good <u>AND</u> an equivalent penetration diameter (0.25 to 2 inches) leak has been postulated, <u>THEN</u> a release rate can be estimated using the CHRRM method and LOCA-1.

The next two methods are in response to a rapid decrease in containment pressure or rapid decrease in the CHRRM reading that was determined, by Operations or Engineering, not due to changes in equipment operation (e.g., additional containment sprays, coolers, etc.).

NOTE

<u>IF</u> the CHRRM is operational <u>AND</u> containment pressure appears to have rapidly (~30 min.) fallen <u>AND</u> the CHRRM reading also fell during the same period as the pressure fall, <u>THEN</u> a release rate can be estimated using LOCA-2.

<u>IF</u> the CHRRM is operational <u>AND</u> containment pressure appears to have rapidly (~30 min.) fallen <u>AND</u> the CHRRM reading was either constant or increased during the same period as the pressure fall <u>AND</u> the percent (%) mass lost can be estimated, <u>THEN</u> a release rate can be estimated using LOCA-3.

method <u>IF</u> that penetration of D : DATE: _ Determine the rest to line 4a and the containing	A CA RELEASE RAT the CHRRM is opediameter leak has beediameter leak has	Method LOCA-1 rational <u>AND</u> conta en postulated. E:, Ur e CHRRM workshe meter:PSIC	IONS WORKSHI ainment integrity hit: et, copy the noble inches G er on line 4a and 4	is not good <u>AN</u> gas and iodine r b. t highest) 50 psig 23
method <u>IF</u> that penetration of D : DATE: DD: DATE: Determine the rest to line 4a a anter the equivation of the contained of the c	CA RELEASE RAT the CHRRM is ope diameter leak has be , TIM elease rates using the and 4b, respectively. alent penetration diamon nent pressure: below, find and enter Containment Press 5 psig 5.5 16 36	(Page 2 of 5) TE DETERMINATION Method LOCA-1 rational <u>AND</u> contact en postulated. E:, Ur e CHRRM workshe meter:PSIC the release multiplic sure (if psig is between 10 psig 8 23	ainment integrity hit: et, copy the noble inches G er on line 4a and 4 en values, use nex 25 psig 14 46	is not good <u>AN</u> gas and iodine r b. t highest) 50 psig 23
method <u>IF</u> that penetration of D : DATE: DD: DATE: Determine the rest to line 4a a anter the equivation of the contained of the c	he CHRRM is ope diameter leak has be , TIM elease rates using th and 4b, respectively. alent penetration diam nent pressure: below, find and enter Containment Press 5 psig 5.5 16 36	E DETERMINATI Method LOCA-1 rational <u>AND</u> conta en postulated. E:, Ur e CHRRM workshe meter:PSIC the release multiplic sure (if psig is betwe 10 psig 8 23	ainment integrity hit: et, copy the noble inches G er on line 4a and 4 en values, use nex 25 psig 14 46	is not good <u>AN</u> gas and iodine r b. t highest) 50 psig 23
method <u>IF</u> that penetration of D : DATE: DD: DATE: Determine the rest to line 4a a anter the equivation of the contained of the c	he CHRRM is ope diameter leak has be , TIM elease rates using th and 4b, respectively. alent penetration diam nent pressure: below, find and enter Containment Press 5 psig 5.5 16 36	Method LOCA-1 rational <u>AND</u> conta en postulated. E:, Ur e CHRRM workshe meter:PSIC the release multiplic sure (if psig is betwee 10 psig 8 23	ainment integrity hit: et, copy the noble inches G er on line 4a and 4 en values, use nex 25 psig 14 46	is not good <u>AN</u> gas and iodine r b. t highest) 50 psig 23
nt penetration of D: DATE:	he CHRRM is ope diameter leak has be , TIM elease rates using th and 4b, respectively. alent penetration diament pressure: below, find and enter <u>Containment Press</u> <u>5 psig</u> <u>5.5</u> <u>16</u> <u>36</u>	rational <u>AND</u> conta en postulated. E:, Ur e CHRRM workshe meter:PSIC the release multiplic sure (if psig is betwe 10 psig 8 23	hit: et, copy the noble inches er on line 4a and 4 een values, use nex 25 psig 14 46	gas and iodine r b. t highest) 50 psig 23 75
etermine the retermine the retermine the returns to line 4a a anter the equivand the containing rom the table b Pen. dia. (inches) 0.25 0.50 0.75	elease rates using th and 4b, respectively. alent penetration diam nent pressure: below, find and enter Containment Press 5 psig 5.5 16 36	e CHRRM workshe meter:PSIC the release multiplic sure (if psig is betwe 10 psig 8 23	et, copy the noble inches F er on line 4a and 4 een values, use nex 25 psig 14 46	gas and iodine t b. t highest) 50 psig 23 75
ttes to line 4a a nter the equiva nd the containn rom the table b Pen. dia. (inches) 0.25 0.50 0.75	and 4b, respectively. alent penetration diar ment pressure: pelow, find and enter Containment Press 5 psig 5.5 16 36	meter:PSIC the release multiplic sure (if psig is between 10 psig 8 23	inches F er on line 4a and 4 en values, use nex 25 psig 14 46	b. t highest) 50 psig 23 75
rom the table b Pen. dia. (inches) 0.25 0.50 0.75	Containment Press 5 psig 5.5 16 36	the release multiplic sure (if psig is between 10 psig 8 23	er on line 4a and 4 een values, use nex 25 psig <u>14</u> 46	t highest) 50 psig 23 75
Pen. dia. (inches) 0.25 0.50 0.75	Containment Press 5 psig 5.5 16 36	sure (if psig is betwe 10 psig 8 23	en values, use nex 25 psig 14 46	t highest) 50 psig 23 75
(inches) 0.25 0.50 0.75	5 psig 5.5 16 36	10 psig 8 23	25 psig 14 46	50 psig 23 75
0.25 0.50 0.75	5.5 16 36	8 23	<u>14</u> 46	23 75
0.50 0.75	16 36	23	46	75
0.75	36			
		50	62	140
1.00		50	65	140
	57	92	150	250
1.25	100	150	250	400
1.50	160	225	375	600
1.75	225	300	500	825
2.00	275	400	650	1000
alculate Estima	ated Release Rate:			
(CH	RRM method)	(multiplier)	(Estimated Release Rates)	
Noble Gas	Ci/sec :	κ	=	Noble Gas, Ci/sec
lodine	Ci/sec :	K	==	Iodine, Ci/sec
nter LOCA-1	next to Attachmen	t as method), or ent	y selected Dose C ter release rates as	Calculation Wor Direct entry if
	(CH Noble Gas lodine ter the Estim ter LOCA-1 computer, to ultipliers are	Iculate Estimated Release Rate: (CHRRM method) Noble Gas Ci/sec : Iodine Ci/sec : ter the Estimated Release Rates iter LOCA-1 next to Attachmen computer, to estimate Off-site do	Iculate Estimated Release Rate: (CHRRM method) (multiplier) Noble GasCi/sec x IodineCi/sec x ter the Estimated Release Rates into the previously ter LOCA-1 next to Attachment as method), or enter computer, to estimate Off-site doses.	Iculate Estimated Release Rate: (Estimated Release Rates) (CHRRM method) (multiplier) Release Rates) Noble GasCi/sec x

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	EPIP-20126	0	f-site Dose Calculat	ions	Approval Date: 6/1/00		
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	LC	CA RELEASE RA	TE DETERMINAT	TIONS WORKSHEE	ET		
			Method LOCA - 2				
Use th min.)	his method <u>IF</u> th fallen <u>AND</u> the	e CHRRM is operat CHRRM reading al	ional <u>AND</u> containm so fell during the san	nent pressure appears the pressure period as the pressure period as the pressure pre	to have rapidly (~30) are fall.		
			NOTES				
	I • A CHRR	M drop of about 3 per	cent per hour may be o	due to radiological decay	y. t		
		RRM may drop by as i , due to lodine washo	ut.	ery quickly if containme	l		
MET	L HOD:						
1.		of starting this work	sheet.	/,ï	Init		
2.	Calculate Delt	-		, `, `			
2.			nd CHRRM	E	elta-CHRRM, R/hr		
3.	Calculate Dur			 _			
•••			- Clock Time Start		Delta-Clock		
			-	(h	ours and/or minutes)		
	b. Convert	Delta-Clock to Delt	a- <u>Seconds</u> :	∆ sec			
4.	Estimate Curic	es Lost:					
	Delta-CHRRM	1R/hr x 56	5 Ci N.G. per R/hr =	= Noble Ga	as Curies Lost		
5.	Estimate Nobl	e Gas Release Rate ((loss rate):				
1	Noble Gas Cu	ries lost + _	D sec =	Noble Ga	as Ci/sec		
6.	Estimate the Id Attachment-3)	odine Release Rate (:	IRRF = Iodine Relea	se Rate Factor, see Pa	ge 2 of		
	N.G. Ci/sec	x	_ (IRRF) =	Iodine Ci	i/sec		
7.	(enter LOCA.	mated Release Rate 2 next to Attachme to estimate Off-site of	ent as method), or en	ly selected Dose Cal nter release rates as I	culation Worksheet Direct entry if using		
Basis:	Assumes rate o 6.25 E+5 R/hr 3.53 E+8 curies		oble gas ries lost through leak	om 21026 CHRRM method			
_W97;JR/	/ev/bvc/ev						

Procedu	it No.:	Procedure Title:				Page: 52
0-I	EPIP-20126	Í	Off-site D	ose Calculation	S	Approval Date: 6/1/00
				CHMENT 4 ge 4 of 5)		
	LC	DCA RELEA	SE RATE DE	TERMINATIO	NS WORKS	HEET
			Metho	d LOCA - 3		
min.)	his method <u>IF</u> the fallen <u>AND</u> the ure fall <u>AND</u> the	e CHRRM re	ading was eithe	er constant or in	t pressure app creased durin	ears to have rapidly (~30 g the same period as the
	r —		<u> </u>	OTE		1
		The percent	mass lost is estir	nated on Page 5	of Attachment 4	
MET	HOD:					
1.	Date and time	of starting th	is worksheet:		/	
2.	Calculate aver	rage CHRRM	l reading (if CH	RRM was const	ant, enter read	ling as Avg.)
	(Start CHRRN	vi +	- End CHRRM) + 2 =	=/	Avg CHRRM, R/hr
3.	Estimate Nob	le Gas Curies	in the containn	nent:		
	Avg CHRRM	R/hr	_ x 565 Ci N.G.	per R/hr =	Nob	le Gas Curies in ctmt
4.	Calculate Dur					
	a. Clock T	ime End	Clock Tin	me Start	=(ł	Delta-Clock nours and or minutes)
	b. Convert	Delta-Clock	to Delta-Second	<u>ds</u> :	Δsec	
5.	Estimate Curio	es Lost:				Noble Gas
	N.G. Curies in	n ctmt	x9	% mass lost ö 10	0 =	
6.	Estimate Nobl	e Gas Releas	e Rate (loss rate	;):		
	Noble Gas Cu	ries lost	+	Δ sec =	_ Noble Gas	Ci/sec
7.	Estimate the Id Attachment 3)	odine Release	e Rate (IRRF =)	Iodine Release F	Rate Factor, se	e Page 2 of
	N.G. Ci/sec	x	(IRRF) = _	Iodine	e Ci/sec	
8.	Enter the Esti (enter LOCA- the computer,	-3 next to At	tachment as m	the previously s ethod), or enter	selected Dose release rates	Calculation Worksheet as Direct entry if using
Basis:	Assumes rate of curies fror assumptions as	n core >curi	ies lost throug	lost through lea h leak (increas	k (constant Cl sing CHRRM	HRRM), or assumes rate), and same remaining

Pro	cedure No.:	Procedure Title:		Page:	3
	0-EPIP-20126		Off-site Dose Calculations	Approval Date: 6/1	
			ATTACHMENT 4 (Page 5 of 5)		
	LC)CA RELEASE	RATE DETERMINATIONS W	DRKSHEET	
		ESTIMATE	OF CONTAINMENT % MASS I	OST	
1.	Purpose				
	The purpose of the environm burp).	of this calculation ent during a p	n is to provide a method to estimate ost-LOCA containment depressur	containment % mass r zation transient (con	elease to tainment
2.	Discussion				
	radiation	se assessment gr n release to the gical conditions a	roup can use the containment mas environment, using this attachm re known.	s release data to estinent, provided the con	mate the tainment
	a short	tainment depress period of time, nent heat remov	surization event should be large (gr since the methodology does not al systems.	eater than 5.0 psi chang accurately credit the o	ge), over effect of
3.	Acquire the fo	llowing data:			
	· —		NOTES		1
		e span for data ob ent 4, Method LOC	servation should be the same as used CA-3.	for the calculation on	
	Density i	s mass per unit vo	olume and is symbolized by the unit rho	(<i>p</i>)	1
	A. Contain	ment Pressure ju	st before blowdown transient:	psig {Ps	itart}
	B. Contain	nent Temperatur	e just before blowdown transient:	deg F {Ts	tart}
	C. Contain	nent Pressure ju s	st after blowdown transient:	psig {P	end}
	D. Containr	nent Temperatur	e just after blowdown transient:	deg F {Te	end}
4.	Estimate Initia	l Containment A	tmosphere Density (pinit):		
	<u>144 x (14.7 +</u> 53.3 x (460 +	Pstart) = Tstart)	pinit		
5.	Estimate End (Containment Atn	nosphere Density (pend):		
	<u>144 x (14.7 +</u> 53.3 x (460 +	<u> Pend)</u> = Tend)	pend		
6.	Estimate % Ma	ass Lost:			
		<u>ρend</u> ρinit)) x 100 = % mass los	t	

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Procedure No.: Procedure Title:				
		Page: 54		
0-EPIP-20126	Off-site Dose Calculations	Approval Date: 6/1/00		
	ATTACHMENT 5 (Page 1 of 5)			
STEAM GE	CNERATOR TUBE RUPTURE WORKSHEET			
	SGTR Release Rate Determinations			
Use this method to either estim Generator Tube Rupture Accident	nate release rates or modify the Default release	rates for a Steam		
The default release rate is based of	n:			
1. Complete break of or NOT considered unc	ne tube at the tube sheet, which is under water; that covered (level > 6% NR)	t is the S/G is		
2. 553 gpm primary to	secondary leak rate (average over 30 minute accide	ent period).		
3. 1 percent failed fuel.				
and				
4. 100 percent of the no atmosphere.	bble gas in the RCS discharged to the steam generat	tor is released to the		
5. 1 percent of the iod atmosphere.	ine in the RCS discharged to the steam generato	r is released to the		
· · · · · · · · · · · · · · · · · · ·	NOTE	<u>i</u>		
different than shown; use t	e provided for guidance. Conditions may warrant an a the factors presented here and elsewhere in this proce eases. Document the calculations.	approach edure, as		
IF any, or all, of the first three def the default release rate by using me	fault basis are known to be different than stated ab ethod SGTR-1.	oove, <u>THEN</u> adjust		
IF RCS grab sample results, and method SGTR-2.	1° - 2° leak rate are known, THEN estimate the	release rate using		
IF secondary concentrations and method SGTR-3.	steaming rates are known, THEN estimate the	release rate using		
Basis for Attachment 5:				
p-mod = partition factor modifier a 4.6 times higher iodine release r 6.3E-5 = 1E-6 Ci/uCi x 3785 cc/g 0.126 = (lbm/hr x 453.6 gram/lbn	(1.03E+5 lbm (FSAR) / 46.3 lbm/ft3) * 7.48 gal/ft3) / 30 mi , Westinghouse Study on effect of rupture site not covered by rate. gal /60 sec min n) / (1 gram/cc liquid * 3600 sec/hr) IPE-LR 87-033 (ref Substep 2.1.3.7)	in y water indicates about		

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0-	EPIP-20126									
			Off-site Dos	e Calculations		Approval Date: 6/1/00				
		-		IMENT 5 2 of 5)						
		STEAM GE	ENERATOR TUB	E RUPTURE WO	RKSHEET					
			Method	SGTR-1						
INST	RUCTIONS:									
1.	VERIFY AN	ID RECORD	INFORMATION:							
	a. Date:_	· • • •	and Time:	of o	lata, for Unit:	·				
	b. Durati	on of Release	per EC l	nours (SGTR defaul	lt = 0.5 hours:	; PF = 1.0)				
	c. Percen	t of failed fue	l: [Defau	lt is 1%]						
	d. Primar	y leak data, g	et both if possible:							
	Numbe Leak R	er of failed tul	0es [Defau	Default is 1] lt is 553 gpm]						
	e. Affecte	ed S/G narrov	range level	%						
2.	Determine p	Determine primary leak rate flow modifier								
	a. Estima	ted pri - sec le	eakrate if available	(gpm)	DIVIDED B	Y 553 =				
	b. Flow n	nod is the larg	ger of Number of F	ailed Tubes or valu	e calculated i	in Step 2a				
3.	For Iodine or	nly, <u>IF</u> S/G le	vel <6% NR, <u>THE</u>	\underline{N} p-mod = 5, \underline{ELS}	$\underline{\mathbf{E}} \operatorname{p-mod} = 1$	(circle one)				
4		fault release	rates:							
	_	Default				Release ra				
		Ci/sec	x flow mod x	% failed fuel x	F	= Ci/sec				
	oble Gas	6.2	·		1					
100	dine	4.2 E-3			<u> </u>					
5.	estimated fro a. On the	m this metho applicable w	d into the dose calc	ing this procedure ulation process. ment 2, Step B (Re						
6.	If performing	calculations	using the compute	r program, use the l	Direct Entry s	ource term opti				

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Proced						,	56	
0-	EPIP-20126		Off-site l	Dose Calci	ulations		Approval Date: 6/1/0	0
				ACHMEN Page 3 of 5)	Т 5			
		STEAM GEN	NERATOR 1	UBE RUI	PTURE V	VORKSHEE	T	
			Meth	hod SGTR	-2			
Use	this method if R	CS grab samp	le results and	1° - 2° leal	k rate are	known		
INST	TRUCTIONS:							
1.	VERIFY AN	D RECORD I	NFORMATIC	ON:				
	a. Date:	ai	nd Time:			of data, for Un	nit:	
	b. Duratio	on of Release p	er EC		_ hours (S	GTR default :	= 0.5 hours; PF	= 1.0
	c. RCS G	ross Noble Ga	s Activity:		_uCi/cc			
	d. RCS I-	131 DEQ activ	vity: uCi	i/cc				
	e. Affecte	d S/G narrow	range level		0%			
					_ 70			
2.	PERFORM C	CALCULATIC	-		_70			
2.		CALCULATIO)NS		-	i = 5, <u>ELSE</u> p	-mod =1	
2.	ONLY FOR		DNS 5/G level < 6%	6 NR, <u>THE</u>	- <u></u>	unit	Release rate	٦
2.	ONLY FOR	ODINE: <u>IF</u> S RCS activity	DNS 5/G level < 6%	6 NR, <u>THE</u>	- <u></u>	unit	Release rate	
2.	ONLY FOR	ODINE: <u>IF</u> S RCS activity 1	DNS 5/G level < 6%	6 NR, <u>THE</u> x partion x	<u>EN</u> p-mod	unit x conversion	Release rate	
2.	ONLY FOR I Noble Gas Iodine IF performin estimated from a. On the	IODINE: <u>IF</u> S RCS activity 1 uCi/sec g manual cal n this method	ONS S/G level < 6% 1° - 2° x flow gmp x culations foll into the dose of rksheet in Att	6 NR, <u>THE</u> x partion x 1 0.01 lowing thi calculation tachment 2	EN p-mod p-mod 1 s proced	unit x conversion 6.3 E-5 6.3 E-5 ure, <u>THEN</u> c	Release rate	
	ONLY FOR I Noble Gas Iodine <u>IF</u> performin estimated from a. On the SGTR-2	IODINE: <u>IF</u> S RCS activity I uCi/sec g manual cal n this method applicable wor 2 on the line for	ONS Glevel < 6% 1° - 2° x flow gmp x culations foll into the dose of rksheet in Attor or Attachment.	6 NR, <u>THE</u> x partion x 1 0.01 lowing thi calculation tachment 2	EN p-mod p-mod 1 s proced process. 2, Step B	unit x conversion 6.3 E-5 6.3 E-5 ure, <u>THEN</u> c (Release rate	Release rate = Ci/sec enter the releas determined by:)	ente
5.	ONLY FOR I Noble Gas Iodine <u>IF</u> performin estimated from a. On the SGTR-2	IODINE: <u>IF</u> S RCS activity I uCi/sec g manual cal n this method applicable wor 2 on the line for	ONS Glevel < 6% 1° - 2° x flow gmp x culations foll into the dose of rksheet in Attor or Attachment.	6 NR, <u>THE</u> x partion x 1 0.01 lowing thi calculation tachment 2	EN p-mod p-mod 1 s proced process. 2, Step B	unit x conversion 6.3 E-5 6.3 E-5 ure, <u>THEN</u> c (Release rate	Release rate = Ci/sec	ente
5.	ONLY FOR I Noble Gas Iodine <u>IF</u> performin estimated from a. On the SGTR-2	IODINE: <u>IF</u> S RCS activity I uCi/sec g manual cal n this method applicable wor 2 on the line for	ONS Glevel < 6% 1° - 2° x flow gmp x culations foll into the dose of rksheet in Attor or Attachment.	6 NR, <u>THE</u> x partion x 1 0.01 lowing thi calculation tachment 2	EN p-mod p-mod 1 s proced process. 2, Step B	unit x conversion 6.3 E-5 6.3 E-5 ure, <u>THEN</u> c (Release rate	Release rate = Ci/sec enter the releas determined by:)	ente
5.	ONLY FOR I Noble Gas Iodine <u>IF</u> performin estimated from a. On the SGTR-2	IODINE: <u>IF</u> S RCS activity I uCi/sec g manual cal n this method applicable wor 2 on the line for	ONS Glevel < 6% 1° - 2° x flow gmp x culations foll into the dose of rksheet in Attor or Attachment.	6 NR, <u>THE</u> x partion x 1 0.01 lowing thi calculation tachment 2	EN p-mod p-mod 1 s proced process. 2, Step B	unit x conversion 6.3 E-5 6.3 E-5 ure, <u>THEN</u> c (Release rate	Release rate = Ci/sec enter the releas determined by:)	ente
5.	ONLY FOR I Noble Gas Iodine <u>IF</u> performin estimated from a. On the SGTR-2	IODINE: <u>IF</u> S RCS activity I uCi/sec g manual cal n this method applicable wor 2 on the line for	ONS Glevel < 6% 1° - 2° x flow gmp x culations foll into the dose of rksheet in Attor or Attachment.	6 NR, <u>THE</u> x partion x 1 0.01 lowing thi calculation tachment 2	EN p-mod p-mod 1 s proced process. 2, Step B	unit x conversion 6.3 E-5 6.3 E-5 ure, <u>THEN</u> c (Release rate	Release rate = Ci/sec enter the releas determined by:)	ente
5.	ONLY FOR I Noble Gas Iodine <u>IF</u> performin estimated from a. On the SGTR-2	IODINE: <u>IF</u> S RCS activity I uCi/sec g manual cal n this method applicable wor 2 on the line for	ONS Glevel < 6% 1° - 2° x flow gmp x culations foll into the dose of rksheet in Attor or Attachment.	6 NR, <u>THE</u> x partion x 1 0.01 lowing thi calculation tachment 2	EN p-mod p-mod 1 s proced process. 2, Step B	unit x conversion 6.3 E-5 6.3 E-5 ure, <u>THEN</u> c (Release rate	Release rate = Ci/sec enter the releas determined by:)	ente
5.	ONLY FOR I Noble Gas Iodine <u>IF</u> performin estimated from a. On the SGTR-2	IODINE: <u>IF</u> S RCS activity I uCi/sec g manual cal n this method applicable wor 2 on the line for	ONS Glevel < 6% 1° - 2° x flow gmp x culations foll into the dose of rksheet in Attor or Attachment.	6 NR, <u>THE</u> x partion x 1 0.01 lowing thi calculation tachment 2	EN p-mod p-mod 1 s proced process. 2, Step B	unit x conversion 6.3 E-5 6.3 E-5 ure, <u>THEN</u> c (Release rate	Release rate = Ci/sec enter the releas determined by:)	ente

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•	0-EPIP-20126	;	Off	-site Dose Ca	lculations		Approval Date: 6/1/00				
	ATTACHMENT 5 (Page 4 of 5)										
	STEAM GENERATOR TUBE RUPTURE WORKSHEET										
				Method SGT	R-3						
	Use this method i	f secondary	concentration	s and steamin	g rates are kn	nown					
	1. VERIFY	AND RECC	RD INFORM	ATION:							
	a. Date		and 7	Time:	of	data, for Unit	·				
	b. Dur	ation of Rel	ease per EC _		hours (SC	GTR default =	0.5 hours; PF = 1.0)				
	c. Seco	ondary Steam	ning Rate:		•	(units; e.	g., lbm/hr)				
	d. Seco	ondary Gros	s Noble Gas A	Activity:	uCi/cc liqu	uid sample, for	r use in Step 4				
	e. Seco	ondary I-131	DEQ activity	/:	uCi/cc l	iquid sample,	for use in Step 4				
	f. Affe	cted S/G na	rrow range lev	vel	%		1				
	2. Convert St	teaming Rat	e to cc/sec liq	uid equivalen	t release rate						
	<u>IF</u> in	n lbm/hr:	lb/hr	x 0.126 =	cc (li	quid)/sec					
	<u>IF</u> ir	1 lbm/sec:	lb/se	c x 454 =	cc (li	quid)/sec					
	<u>IF</u> ir	volumetric	units (e.g., Fi	³ /time, <u>THE</u>	V get Enginee	ering to calcula	ate liquid rates)				
	3. For Iodine	only, <u>IF</u> S/	G level <6% N	NR, <u>THEN</u> p-	mod = 5, EL	$\underline{SE} p - mod = 1$	-				
		- —			(circle selecte	ed p-mod)	•				
	4. Estimate tl	ne release ra	tes:								
		Sec activity : µCi/cc	x Steaming Rate, cc/sec	xp-mod x	partition x	c μCi to= E Ci	stimated Release Rates, Ci/sec				
	Noble Gas			1	10	1 E-6					
	Iodine				0.01	1 E-6					
	5. <u>IF</u> performestimated f	ning manua from this me	al calculations thod into the	s following t dose calculati	his procedur on process.	re, <u>THEN</u> en	ter the release rate				
	a. On t SGT	he applicabl R-3 on the l	e worksheet i ine for Attach	n Attachment ment.	2, Step B (F	Release rate de	etermined by:) enter				
	6. If performi	ng calculati	ons using the	computer pro	gram, use the	Direct Entry	source term option.				

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	ure No.:	Procedure Title:		Page: 58				
0-	EPIP-20126	Off-site Dose Calc	ulations	Approval Date: 6/1/00				
		ATTACHMEN (Page 5 of 5)						
		STEAM GENERATOR TUBE RUN	PTURE WORKSHEET					
		Method SGTR	-3	I				
Use t	this method if g	amma survey meter contact readings of	f the main steam line are k	nown				
1.	VERIFY AN	D RECORD INFORMATION:						
	a. Date:	and Time:	of data, for Unit:					
	Ask Emerger	ncy Coordinator						
	b. Duratio	on of Release hours (Default	= 0.5)					
	c. Is the c	ore over heating or melting: (Y	es or NO)					
	IF the c	core IS NOT overheating or melting, <u>T</u>	<u>'HEN</u> MF = 2.4 E-2 AND	PF = 1				
	IF the c	core IS overheating or melting, THEN	MF = 2.1 E-3 AND PF =	4.4				
2.	Enter the mai	n Steam Line Survey Meter Reading:	mr/hr					
3.	Enter the MF	determined in Step 1.c	Noble Gas u	Ci/cc per mr/hr				
4.	Multiply line	2 and 3, place result here \rightarrow	Noble Gas u	Ci/cc				
5.	Enter the Stea	am Line Flow Rate, see Values below	cc/sec					
6.	Multiply lines	s 4 and 5,	Noble Gas u	Ci/sec				
7.	Multiply line	6 by 1E-6, to estimate the	Noble Gas Ci	/sec				
8.	Multiply line	7 by 6.8E-4 to estimate the	Iodine Ci/sec					
9.	IF performin estimated from	g manual calculations following this method into the dose calculation	s procedure, <u>THEN</u> ent process.	er the release rate				
	a. On the SGTR-4	applicable worksheet in Attachment 2 4 on the line for Attachment.	, Step B (Release Rate de	termined by:) enter				
10.	If performing calculations using the computer program, use Direct Entry source term option							
		ine Flow Rate Values ospheric Dump Valves (3): EACH 1.3	33 E+4 cc/sec, 4.0 E+4 IF line): 1.1 E+5 cc/sec eact	all three				

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Proced	lure No.:	No.: Procedure Title:				Page: 59	
0.	-EPIP-20126		Off-site D	ose Calculations		Approval Date: 6/1/00	
	<u></u>			CHMENT 6 ge 1 of 2)			
		FIELD TE	CAM MEASI	UREMENTS ASSE	ESSMENT		
				elease rate from fie rements to dose pro		y meter measure	
		Ī	RELEASE R	ATE ESTIMATION	[
1.	Date	and time		of starting this w	orksheet:		
	[<u>1</u>			1	
		er Gamma (CLO m value from a la		V) results must be from se of the plume.	m plume cente	rline; that is,	
			-				
2.	-		ment was at 1	mile value, THEN	go to Step 4.		
3.	Estimate the					.7	
			•	sults x (downwind d	istance, miles	s) ²	
	Where the ex	ponent Z =	1.5 for Sta	lity Class A, B bility Class C, D bility Class E, F, G			
	meter results	_ mr/hr x (dov	mile nwind distar	$es)^{(Z)} = $	Estima	ted 1 mile mr/hr	
4.	Select the Do	se Calculation V	Worksheet (D	CW) for the met co	nditions at tir	ne of sampling.	
	a. Use Wi	nd Speed in Mi	les Per Hour,	mph			
	b. Copy fr	om Line 13, the	e 1 mile Nobl	e Gas Dose Factor (NGDF) for u	se in Step 5.	
5.	Estimate Nob	le Gas Release	Rate (the Dos	se Calculation Work	sheet in reve	rse):	
	estimate 1 mi	_mr/hr / le divide	NGDF	x wind speed	mph =	NG Ci/sec	
6.	Estimate Iodin	ne Release Rate	: (IRRF = Iod	ine Release Rate Fa	ctor, see Page	e 2 of Attachme	
	- e		· <u>N</u>		-		
	Iodine releas	se rate. Substitu	ite field estima	e noble gas Ci/sec m ted Thyroid Dose Ra line 4 value) for the N	te in Step 3, s	ubstitute the	
	NG Ci/sec	_ x (IR)	=	_ Iodine 131 DEQ	Ci/sec		
7.	Utilize the cu (enter 6 next to estimate Off-s	to Attachment a	as method), o	itions and appropri r enter release rates	ate Dose Ca as Direct if	lculation Work	

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Procedure No.:	Procedure Title:	Page: 60
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	ATTACHMENT 6 (Page 2 of 2)	
	FIELD TEAM MEASUREMENTS ASSESSMEN	T
	Comparing Field Measurements to Dose Projection	S
(— - — ·	NOTES	· ·
Reason the two precision	able comparison between Field Measurements and Dose are within an order of magnitude. Too many assumptions	Calculations is if s preclude better
The Fiel	y team measurements off centerline will yield a low estima Id Monitoring Coordinator (EOF) has a method for estimating e situations.	ted release rate. centerline values
Survey Meter DDE R	eadings	
the pre-design locations). The shine from io	ized dose calculation program estimates the survey me nated sampling locations (refer to Field Survey Maj his Survey Meter Estimate is sum of immersion in plum dine and particulates. The noble gasses are the majorit adjusts for gap versus core mix of noble gasses in resp tion.	p for descriptions of e of noble Gas, and plu ty of the exposure sour
the value calc	ethod does not calculate a DDE from immersion in noble orksheet apropos to the met conditions, a value could be ulated on line 10 by the Dose Factors listed on line 13 ore mix of noble gasses, and include the X/Q for the	e estimated by multiply These Dose Factors
Thyroid CDE		
Ci/sec. The fi	projections, both procedure and computer, area based or eld teams measure I-131 in the plume; their procedure h the dose from the other iodines. The factor starts at about s.	as a time dependent fac
Dividing projection	ected thyroid dose rate, mr/hr, by 1.3E + 9 will estimuCi/cc.	nate the Iodine 131 DF
<u>Fime of Sample v. Tir</u>	ne of Release	
Time of field the time of the relevant time of time of the relevant time of time of the relevant time of the relevant time of the relevant time of time of the relevant time of time o	measurement minus (downwind distance, miles / wind sease rate estimated.	speed, mph) will yield t
The computer printout that ha	ized calculations use a time window 15 or 30 minute as a Release Observation Time before the time estimated	s long. Select the late above.
Estimating Dose Rates	s or Concentrations at Other Distances (e.g., 1, 2, 5, 10 m	niles)
Estimated Valu Wh	ue @ Dist x = Measured value times ere: DWD = Measurement downwind distance, m Dist x = other distance, miles Z = exponent based on stability class	(DWD/Dist x) ^z iiles
	$I_{i} \equiv exponent pased on etablisty close$	

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0-EPIP-20126			se Calculations		6/1/00
			HMENT 7 : 1 of 2)		
REPORT	TABLE QU	ANTITY (RQ) RA	DIOACTIVE	RELEASE D	ATA SHEET
Brief description of	the event: _				
					···
		<u></u>	<u> </u>		<u></u>
Estimate of Quantit	y of Substan	ce Released to envi	ronment:		<u></u>
Isotopes released; Q	Quantity and	RQ Limit:			
Nuclide	<u>Curies</u>	RQ Limit	Nuclide	<u>Curies</u>	RQ Limit
<u>Cs-134</u>		1.0	<u>I-133</u>		0.1
<u>Cs-137</u>			<u>Xe-133</u>		
<u>Co-58</u>		<u> 10.0 </u>	<u>Xe-135</u>		
<u>Co-60</u>		10.0	<u> </u>		
<u>I-131</u>		0.01			
Time and Duration	of release:				
Start I	Date/Time:		Stop]	Date/Time:	
Medium released to	:		-		
Liquid:	a) Disch	arge Canal (Lake V	Varren):		
	b) Grou				
Airborne Ga	seous: a)	Wind Speed:		MPH	
		Wind Direction (fr			
		Downwind Sector:		•	
Any known or antici					
	-	NO			ormation.
				-	ormation
Any advice regardin	g medical at	tention necessary fo	or exposed indiv	ndual:	
				······································	
				, , , , , , , , , , , , , , , , , , , ,	

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		ATTACHMENT 7		
		(Page 2 of 2)		
REPO	RTABLE QUANT	TTY (RQ) RADIOACTIVE	RELEASE DATA S	SHEET
Iny precautions	to take as result of a	release:		
	<u> </u>	· <u>·</u> ··································		
Tomos and tolonk	one number of non	sonnel to be contacted for furt	has information.	
-	-			
Name:		Plant No.	Веер	er No
				<u></u>
			·····	
r —		NOTE		
• [l l
I	See	ERD for associated phone numb	pers.	ĺ
otifications mad				
	ant Supervisor			
·	2/Time:			
•		nformation:		į
	esponse Center			
-				
2) Nam	e of person given i	nformation:		
State Eme	rgency Response C	ommission		
1) Date	/Time:	_/		
2) Nam	e of person given i	nformation:		
Local Eme	rgency Response F	Planning Committee (Commun	ity Emergency Coor	dinator)
1) Date	/Time:			
2) Nam	e of person given i	nformation:		
ompleted by:				
	ls):			

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