Southern Nuclear Operating Company Vogtle Electric Generating Plant Post Office Box 1600 Waynesboro, Georgia 30830



April 16, 2002

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

NOT-03820

## VOGTLE ELECTRIC GENERATING PLANT EMERGENCY PLAN IMPLEMENTING PROCEDURE REVISIONS

Gentlemen:

In accordance with 10 CFR 50.4, as required by 10 CFR 50, Appendix E, Part V, Southern Nuclear hereby submits the following revision(s) to the Vogtle Emergency Plan Implementing Procedure(s):

<b>Procedure</b>	<u>Revision</u>	Effective Date
91103-C	17	04/05/2002
91602-C	15	04/05/2002
91106-C	12	04/05/2002
91601-C	16	04/05/2002
91502-С	12	04/05/2002
91107-С	10	04/05/2002
91108-C	08	04/05/2002
91111-C	09	04/05/2002
91503-C	10	04/05/2002
91104-C	17	04/12/2002
91202-C	12	04/12/2002
91302-C	10	04/12/2002
91304-C	14	04/12/2002

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By copy of this letter, the NRC Region II Administrator and the Site NRC Senior Resident Inspector will receive one copy each of the revision(s).

Please contact Lawrence Mayo at (706) 826-3356 if you have questions.

Sincerely. Mayo Lawrence E. Mayo

Emergency Preparedness Coordinator

LEM:jjm

Enclosure: Emergency Plan Implementing Procedure(s)

xc: <u>Southern Nuclear</u> Mr. J. B. Beasley, Jr. Mr. J. A. Bailey NORMS

> Shaw, Pittman, Potts & Trowbridge Mr. David R. Lewis, Attorney-at-Law (with attachment)

<u>Troutman & Sanders</u> Mr. A. H. Domby, Attorney-at-Law (with attachment)

<u>U. S. Nuclear Regulatory Commission</u> Mr. L. Reyes, Regional Administrator (with attachment – one copy)

Approved By J. T. Gasser		Vogtle Electric Generating Plant	Procedure Number 91103-C	Rev 17
Date Approved 04/05/2002	DUTIES OF THE TSC MANAGER         Page Number           /2002         1 of			)
REFERENCE USE PROCEDURE PRB REVIEW REQU		REQUIRED		
1.0	PURPOSE			
	The (TS Res	e purpose of this procedure is to provide instructions to the Technical S C) Manager for overall direction of the TSC and the onsite VEC sponse Organization (ERO).	Support Center SP Emergency	
2.0	<u>RE</u>	<u>SPONSIBILITIES</u>		
2.1	TS	C MANAGER		
2.1.1	The	TSC Manager shall have the following responsibilities:		
2.1.1.1	Tin	nely offsite communications (when Emergency Director (ED) is in TSC)	).	
2.1.1.2	Dec resp	claring the TSC operational, managing the TSC and directing TS ponse personnel.	SC emergency	
2.1.1.3	Ass Em tem	suming the ED responsibilities while the ED is in transit from the ergency Operations Facility (EOF). A formal relief sheet is not recomporary transfer of ED responsibilities.	e TSC to the quired for this	
2.1.1.4	Coo adv	ordination of inputs and recommendations from technical and con isors.	rrective action	
2.1.1.5	Pro	viding technical assistance and operational guidance to Control Room p	ersonnel.	
2.1.1.6	Coo	ordinating and directing all onsite emergency response functions.		
2.1.1.7	Pro	viding technical information and recommendations to the ED.		
2.1.1.8	Red	commending onsite and offsite protective actions based on plant condition	ons.	
2.1.1.9	Pro	oviding recommendations on emergency classifications to the ED.		
2.1.1.10	Est	ablishing and maintaining communications with the NRC.		
2.1.1.11	No	tifying offsite ambulance service and hospitals as required.		
2.1.1.12	Dir cor	rection of onsite emergency personnel involved in restoration of the addition.	plant to a safe	;

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2.1.1.13	Direction of TSC staff in analysis of problems, design and planning for temporary modifications.	
2.1.1.14	Development of temporary operating procedures.	
2.1.1.15	Assignment of an individual to ensure that all personnel entering the TSC sign in on the Personnel Roster.	
2.1.1.16	Ensuring that ALL VEGP employees and vendor/contractors reporting to the TSC meet the requirements of the Fitness For Duty (FFD) policy for recall of off-duty personnel.	
2.1.1.17	Ensuring that the Emergency Response Data System (ERDS) Computer has been activated by TSC chemistry staff within one hour of an Alert or higher emergency classification.	
2.1.1.18	Filling the position of Decision Maker or Evaluator if Severe Accident Management Guidelines (SAMGs) are implemented.	
3.0	PREREQUISITES	
	An Alert, Site Area Emergency or General Emergency has been declared.	
4.0	PRECAUTIONS	
4.1	This procedure shall not take priority over measures required to maintain or restore the plant to a safe operating condition.	
4.2	This procedure does not replace any plant operating procedure. During an emergency condition, the TSC Manager will continue to use appropriate plant procedures in parallel with this and other Emergency Plan Implementing Procedures.	
5.0	PROCEDURE	
5.1	TSC ACTIVATION	
5.1.1	For an Alert, Site Area Emergency or General Emergency, the TSC Manager shall report to the TSC, receive a briefing from the ED, and declare the TSC operational as soon as it is adequately staffed.	
5.1.2	The TSC Manager shall utilize the designated "TSC Manager Checklist" as soon as practicable.	
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5.2	STAFF SUPERVISION	
5.2.1	The TSC Manager shall supervise the activities of the OSC Manager and TSC staff:	the following
5.2.1.1	Engineering Supervisor (core damage assessment, technical support, liais staff in the TSC).	on with NRC
5.2.1.2	Maintenance Supervisor (maintenance, damage control, plant modifications	).
5.2.1.3	Operations Supervisor (interface with Control Room and develop temporal operating procedures as necessary).	ary emergency
5.2.1.4	Health Physics (HP) Supervisor (onsite radiological assessment, on-site pro- recommendations, radiation exposure record keeping, In-Plant Monitoring and until Emergency Operations Facility (EOF) Dose Assessment is a projections, offsite protective action recommendations, and Field Mor- control).	otective action Team control; ctivated, dose nitoring Team
5.2.1.5	TSC Support Coordinator (logistics, staffing, TSC evacuation) and TSC (communications, log keeping, status boards, etc.).	Support group
5.2.1.6	Chemistry Supervisor (post-accident sampling, plant chemistry, ERDS activ	vation).
5.2.1.7	Security Coordinator (access control, site evacuation, accountability).	

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6.0 6.1	REFERENC	T <u>ES</u> RGENCY PLAN		
6.2	PROCEDU	RES		
6.2.1	91002-C,	"Emergency Notifications"		
6.2.2	91101-C,	"Emergency Response Organization"		
6.2.3	91104-C,	"Duties Of The OSC Manager"		
6.2.4	91201-C,	"Activation And Operation Of The TSC"		
6.2.5	91204-C,	"Emergency Response Communications"		
6.2.6	91302-C,	"In-Plant Sampling And Surveys"		
6.2.7	91303-C,	"Field Sampling And Surveys"		
6.2.8	91306-C,	"Contamination Monitoring And Decontamination"		
6.2.9	91307-C,	"Contaminated Injury"		
6.2.10	91501-C,	"Recovery"		
6.2.11	60613 <b>-</b> C,	"Control And Use Of Severe Accident Management Guidel	lines (SAMG)'	,
6.3	NUREG-06: Radiologica Plants"	54, FEMA-REP-1, Rev. 1, "Criteria for Preparation and I Emergency Response Plans and Preparedness in Support of	Evaluation of Nuclear Powe	of er

## END OF PROCEDURE TEXT

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	TSC MANAGER CHECKLIST		
<u>DESIGNEE</u>	5: Plant Operations Assistant General Manager Nuclear Plant General Manager Operations Manager Operations Superintendent Plant Support Assistant General Manager		
<u>RESPONSII</u>	BILITIES:		
	Manage the TSC and direct the onsite Emergency Response Organization. with technical information, classifications, and protective action reco Provide technical and operational support to the Control Room.	Assist the ED mmendations.	)
INITIAL AC	CTIONS		
1.	Report to the TSC.		
2.	Sign in on Emergency Response Facility Roster.		
3.	Obtain appropriate work packet and emergency identification badge.		
4.	Receive briefing from ED.		
5.	Assign an individual (normally the TSC Support Coordinator) to ensure tha reporting to the TSC sign in on the Personnel Roster.	t all personne	1
6.	Ensure that key TSC positions have been filled by reviewing the Emerge Facility Roster. Refer to Procedure 91201-C, "Activation And Operation for minimum TSC staff requirements.	ency Response Of The TSC	e "
7.	Review facility and equipment readiness with TSC staff. Ensure all c equipment is operating.	communication	n
8.	When adequately staffed, declare the TSC operational, notify the ED, I Shift Superintendent and OSC Manager.	EOF Manager	r,
9.	Ensure that the TSC Chemistry staff have activated the ERDS Computer Sy	ystem.	

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INITIAL A	CTIO	NS (Cont'd)	
		NOTE	
		If a recall of off-duty personnel has been initiated, perform the follow	wing:
10.	FFD	determinations	
	a.	Review the sign in roster and ensure that <u>ALL</u> personnel reportion answer the fitness for duty question.	ng to the TSC
	b.	If any personnel have answered yes to the FFD question then a FFI required. The Safety and Health department is available to h determination.	D evaluation is elp make this
11.	Prov	ride initial briefing to TSC staff.	
<u>SUBSEQU</u>	ENT A	ACTIONS	
1.*	Mai	ntain a communications log.	
2.*	Assi	st the ED, as needed.	
3.*	Prov	vide periodic briefings to TSC staff.	
4.*	Dire	ect actions to provide the technical and operational assistance to the Con	ntrol Room.
5.	Rev	iew readiness of the OSC.	
		Notifications	
1.*	Ass	ist the ED in performing notifications as directed.	
2.*	Con Not	nplete the Emergency Notification message forms (Procedure 91002- ifications") as appropriate. Provide to the ED for review and approval.	C, "Emergency
3.	Ens prov	ure a plant knowledgeable individual is assigned to maintain comm vide updates to the NRC. (Normally assigned to engineering)	unications and
4.	Dire (HP	ect the HP Supervisor to assign an individual to staff the Health Pl N) telephone when requested by the NRC.	nysics Network
* Continuir	ng Acti	ivity	

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SUBSEQUE	NT ACTIONS (C	<u>CONT'D)</u>	
		Protective Actions	
1.*	Confer with the actions based on	Engineering Supervisor and Operations Supervisor regardered plant conditions.	arding protective
2.*	Prior to EOF ad actions.	ctivation, confer with the HP Supervisor regarding o	offsite protective
3.*	Evaluate the need	d for onsite protective actions.	
4.*	Review habitabil	ity of onsite emergency facilities with the HP Supervisor	r.
5.*	Recommend prot the ED.	tective actions per Procedure 91305-C, "Protective Action	on Guidelines" to
6.	If the OSC or TS	C become uninhabitable:	
	a. Inform th alternate	ne ED and direct the relocation of staff, equipment an location (CR and EOF for TSC; TSC for OSC).	nd supplies to an
	b. The TSC alternate	Manager, Operations Supervisor and HP Supervisor sha TSC in the Control Room should the TSC become uninh	all relocate to the nabitable.
	c. Inform of	ther facilities of new location and communication links.	
		Team Deployment	
1.*	Approve dispate Supervisor, HP S	ch of all in-plant emergency teams via the OSC Mar Supervisor, or Chemistry Supervisor.	ager, Operations
2.*	If necessary, obt CFR20 limits.	ain authorization from the ED for any radiation exposur	es in excess of 10
3.*	Determine if de their decontam Decontamination	contamination of contaminated equipment/areas is nec ination per Procedure 91306-C, "Contamination n".	essary and direct Monitoring And
* Continuin	Activity		

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SUBSEQUE	<u>ENT A</u>	ACTIONS (CONT'D)		
4.*	Apr Tec	prove and direct the transport of the post-accident grab samples hnologies if back-up analysis is needed.	to Framatome	;
5.*	Approve timely dispatch of Field Monitoring Teams until the EOF dose assessment is activated.			
6.*	Ass keej are	ure that the HP Supervisor provides permits for Emergency Radiat ps exposure records, and informs you when authorizations to exceed 10 required.	ion Exposure 0CFR20 limits	, }
7.*	Det assi	ermine whether there is a need for offsite fire fighting assistance. stance be required, request it from Burke County Emergency Manageme	Should such ent Agency.	1
		<b>Contaminated Injury</b>		
1.	Upo disp	on notification of a potentially contaminated injury, direct the OS obtained a First Aid Team (Procedure 91307-C, "Contaminated Injury").	C Manager to	)
2.	Ifa	n ambulance is needed perform the following:		
	a.	Request ambulance assistance via Data Sheet 3, "Request for Assistance" (Procedure 91307-C, "Contaminated Injury"), and proinstructions. (Data sheets normally completed by the TSC Support C	or Ambulance ovide reporting Coordinator)	5
	b.	Contact hospital via Data Sheet 4, "Request for Hospital Assistance 91307-C, "Contaminated Injury"). Inform hospital that a contaminate enroute and provide estimated arrival time. (Data sheets normally the TSC Support Coordinator)	ce" (Procedur inated injury i completed by	e s y
		<b>Emergency Classification</b>		
1.*	Rev Imj	view emergency classification in Procedure 91001-C, "Emergency Cla plementing Instructions".	ssification An	d
2.*	Der or j	termine if the classification level requires upgrading or downgrading b projected plant conditions.	ased on preser	ıt
3.*	Re	commend changes in classifications to the ED.		
* Continuin	g Act	tivity		

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SUBSEQU	ENT .	ACTIONS (CONT'D)	
		Relief	
1.	Perl Res	form relief and complete General Relief Checklist in Procedure 91101-0 ponse Organization".	C, "Emergency
		Severe Accident Management Guidelines	
1.	Dia	gnose plant conditions and evaluate if a specific guideline entry is requi	red.
2.	Eva	luate the positive and negative impacts of strategies presented in the gui	idelines.
3.	Res	pond to severe challenges.	
4.	Inte	rpret the response of plant parameters following strategy implementatio	n.
5.	Ass miti	ess the effectiveness of implemented strategies and determine whet igation is needed.	ther additional
		<b>Emergency Termination</b>	
1.	Afte	er the emergency condition has been declared terminated, proceed as fol	lows:
	a.	Hold a final staff briefing.	
	b.	Collect all logs and checklists.	
	c.	With key staff members, attend a final staff briefing with the EI recovery actions and staff assignments.	) to determine
		Recovery	
1.	Coc acti	ordinate with Emergency Director to provide support for initial reco vities (Procedure 91501-C, "Recovery").	overy planning
		<b>Restoration of the TSC</b>	
1.	Res	tore the TSC to the ready condition at the termination of each emergence	су.
* Continuin	g Acti	ivity	

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104	PRB REVIEW REQUIRED					
F	REFERENCE USE INCOMPOSE					
1	1.0	PURPOSE				
	1.1	The purpose of this procedure is to provide guidance and instructions for developing, conducting, evaluating and documenting emergency preparedness drills and exercises.				
	1.2	This procedure includes provisions to exercise both onsite and offsite emergency sees the session of the interface of the session of the sess				
	1.3	The result of implementing this procedure will be to verify the adequacy of the Vogtle Electric Generating Plant (VEGP) Emergency Plan and Emergency Plan Implementing Procedures and the overall effectiveness of the onsite and offsite Emergency Response Organization (ERO).				
	2.0	RESPONSIBILITIES				
	2.1	The Emergency Preparedness Coordinator (EPC) shall have the following responsibilities:				
	2.1.1	Coordinating the planning and scheduling of drills and biennial exercises, and ensuring that this will fulfill the requirements of 10CFR50, Appendix E and the Emergency Plan.				
	2.1.2	With the assistance of state/county emergency planning personnel, developing the objectives to be met for each exercise, including mutually agreeable dates and times.				
	2.1.3	Developing scenarios for drills and biennial exercises.				
	2.1.4	Coordinating scenario development with state and local agencies.				
	2.1.5	Arranging for official observers to observe, evaluate and critique the drills and biennial exercises and for coordinating the critiques.				
	2.1.6	Ensuring that identified critique items are addressed and corrective actions planned with deadlines for completion.				
	2.1.7	Monitor the status of completion of corrective actions. Significant problems shall be brought to the attention of appropriate plant management.				

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2.1.8	Maintaining records of all drills and exercises.	
2.1.9	Submitting scope, objectives and scenario to NRC for biennial exercises.	
2.1.10	Conducting periodic drills or tabletop scenarios to exercise the plant st Accident Management Guidelines (SAMG).	aff on Severe
3.0	PRECAUTIONS	
	Drills and exercises shall be conducted in such a manner that the safety of personnel are not jeopardized.	the plant and
4.0	PROCEDURE	
4.1	DRILLS/EXERCISES	
4.1.1	Scheduling	
4.1.1.1	Drills/Exercises listed on Checklist 1 will be conducted at the periodi Additional drills/exercises may be conducted as deemed appropriate by the Emergency Preparedness Manager.	city specified. e Training and
4.1.1.2	NRC and FEMA evaluated emergency exercises that test integrated respon are conducted in accordance with NRC and FEMA directives. Vogtle w exercise every two calendar years.	se capabilities fill conduct an
4.1.1.3	The scope and objectives of the biennial exercise will be submitted to the l prior to the exercise date.	NRC (75) days
4.1.1.4	During a six-year period, an exercise shall be conducted which starts betw and 4:00 A.M.	veen 6:00 P.M.
4.1.1.5	Some drills/exercises will be unannounced.	
4.1.2	Scenarios	
4.1.2.1	The EPC is responsible for preparing the scenario for the biennial exercise the Training and Emergency Preparedness Manager.	as directed by

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4.1.2.2	The scenario for the biennial exercise will be submitted to the NRC (45) day exercise date.	ys prior to the
4.1.2.3	Drill/Exercise scenarios should be developed using Checklist 2 as a guide. Checklist 2 are inappropriate for small scale drills and may be omitted at the the EPC.	Many parts of e discretion of
4.1.2.4	The scenario shall be varied from year to year so that all major elements o plans and preparedness organizations are tested within a six year period.	f the response
4.1.2.5	An Exercise Coordinator, with the assistance of representatives of stat organizations (as appropriate), shall develop the objectives to be met for exercise.	e and county e each drill or
4.1.2.6	The Exercise Coordinator, with the cooperation of the state representatives that the simulated events and site initial conditions are developed in a ma adequately test the level of emergency preparedness of the groups partic exercise. FEMA will receive a copy of the scenario from the participating s	s, shall ensure inner that will ipating in the tates.
4.1.2.7	The EPC shall assign controllers/evaluators to areas based on their skills and	d knowledge.
4.1.2.8	The EPC shall ensure that approval has been obtained from the Nuclear Manager and any other appropriate plant management prior to conducting a (see Data Sheet 2).	Plant General a drill/exercise
4.1.2.9	A pre-drill/exercise briefing shall be conducted to inform controllers/eva scenario, objectives, which portions of the scenario require strong contro portions of the scenario permit free play. Appropriate materials to conduc the drill shall be distributed during the briefing.	luators of the ol, and which t and evaluate
4.1.2.10	As drills are a supervised instruction period, controllers/evaluators may ass players during a drill.	ist and correct
4.1.2.11	During an exercise, Controllers/Evaluators should not provide guidance reg of emergency procedures and equipment, unless the conduct of the ex operation of the plant would be jeopardized. Any such guidance will be n item.	arding the use ercise or safe nade a critique
	of emergency procedures and equipment, unless the conduct of the ex operation of the plant would be jeopardized. Any such guidance will be n item.	ercise or safe nade a critique

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4.1.3	A critique will be conducted following each drill/exercise which includes players and controllers/evaluators. Players and controllers/evaluators are encouraged to identify areas where improvements are required.							
4.1.4	The EPC shall submit a written report of drills and exercises to the Nuclear Manager or Plant Support Assistant General Manager which will inclu critique comments and corrective actions which will be tracked through reporting tracking program. (See Data Sheet 3)	Plant General de significant the condition						
4.1.5	The EPC shall maintain a record of all drills for a period of 2 years and bier for 5 years.	nnial exercises						
4.2	OFF YEAR DRILLS							
4.2.1	Off Year Drills shall be conducted to ensure that adequate response comaintained in the interval between biennial exercises. At least one of thes conducted during the calendar year when there is no biennial exercise and combination of some of the principal functional areas of the onsite emerge capabilities.	apabilities are e drills will be shall involve a gency response						
4.2.2	The principal functional areas include the following activities:							
4.2.2.1	Command and control of emergency response							
4.2.2.2	Accident assessment							
4.2.2.3	Protective action decision making							
4.2.2.4	Plant system repair and corrective actions							
4.2.3	Activation of all onsite emergency response facilities (TSC, OSC, and required.	EOF) are not	t					
4.2.4	The States of Georgia and South Carolina including the Counties of Allendale and Barnwell will be permitted to participate in off year drills we by the State or County Government.	Burke, Aiken, when requested	l					

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4.3	COM	AMUNICATION DRILLS		
4.3.1	The l with	EPC should develop, conduct, and document communications drills the guidelines in Section 4.1 as appropriate.	in accordance	
4.3.2	Com	munications Drills shall make use of the actual message format.		
4.3.3	Com (usua	munication drills among the following shall be conducted every <u>two-</u> ally during the biennial exercise):	<u>calendar years</u>	
Υ.	a.	Control Room (normally conducted from the Simulator)		
	b.	Technical Support Center (TSC)		
	c.	Operations Support Center (OSC)		
	d.	Emergency Operations Facility (EOF)	,	
	e.	Emergency News Center (ENC)	. 1	
	f.	Corporate Emergency Operations Center (CEOC)		
94 1	g.	State of Georgia (Georgia Emergency Management Agency)		
	h.	Burke County		
	i.	Savannah River Site (SRS)		
	j.	VEGP Field Monitoring Teams	,	
-	k.	State of South Carolina		
	1.	Aiken County		
. I.	m.	Barnwell County		
	n.	Allendale County		
	0.	VEGP Radiological Emergency Teams		

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4.4	MEDICAL EMERGENCY DRILLS								
4.4.1	The EPC should coordinate with the Safety and Health representative to assure that medical emergency drills are developed, conducted and documented per Section 4.1 as appropriate.								
4.4.2	A medical emergency drill shall be conducted each calendar year (annually more of the offsite support organizations listed below:	y) with one or							
•	a. Burke County Ambulance Service								
	b. Burke County Hospital and/or Doctors Hospital								
4.4.3	The annual medical emergency drill shall involve treatment of a simulated cont person, transport by ambulance or other appropriate means, and arrival and tre the hospital, per Procedure 91307-C, "Contaminated Injury". (These activitie performed out of sequence, i.e. treatment at hospital one day and treatment and of contaminated injury another day.)								
4.4.4	The annual medical drill may be held in conjunction with the biennial exerc	zise.							
4.5	RADIOLOGICAL MONITORING/HEALTH PHYSICS (HP) DRILLS	S							
4.5.1	The EPC shall develop, conduct and document radiological monitoring ar accordance with Section 4.1 as appropriate.	nd HP drills in							
4.5.2	Plant environs and radiological monitoring drills shall be conducted for calendar year (annually). For these drills, a team is dispatched with a contr the required measurements or samples. The drill controller will evaluate of survey instruments, record keeping, communications and the collect media (soil, air, water, and vegetation) as appropriate, per Procedures 9136 Sampling And Surveys" and 91303-C, "Field Sampling And Surveys". The techniques, survey techniques, monitoring methods, decontamination meth clothing, respirators and exposure control considerations will be de appropriate. (Field Monitoring teams will not wear protective clothing plant environs and radiological monitoring drill may be performed in co- one of the semi-annual Health Physics drills.	or VEGP each roller to obtain the proper use tion of sample 02-C, "In-Plant e use of sample nods, protective emonstrated as (.) The annual onjunction with							

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4.5.3	The ability to perform post-accident sampling under simulated accident conditions will be demonstrated each calendar year. The post-accident sample analysis should be performed using laboratory equipment to demonstrate the methods employed under actual accident condition. Messages will be used to simulate high radiation levels.								
4.5.4	Semi-annual HP drills shall be conducted to test response to and analysis of simulated airborne and liquid samples and radiation in the environment. The drill may include the actual use of protective equipment. Semi-annual HP drills may be conducted in conjunction with the biennial exercise or radiological monitoring drills.								
4.6	ASSEMBLY AND ACCOUNTABILITY DRILLS								
4.6.1	The EPC should develop, conduct and document assembly and accounta accordance with the guidelines in Section 4.1 as appropriate.	bility drills in							
4.6.2	An assembly and accountability drill shall be conducted each calendar year test the response of plant personnel and to maintain their awares responsibilities. Personnel in the protected area shall actually perform as otherwise directed by plant management.	r (annually) to ness of their sembly unless							
4.6.3	The annual assembly and accountability drill may be held in conjunction wi exercise.	th the biennial							
4.7	SAMG (TABLETOP) DRILLS								
4.7.1	A SAMG tabletop drill will normally be conducted once each calendar year drill will not normally be a part of or associated with the normal emerge exercises.	The tabletop gency drills or							
4.7.2	A SAMG tabletop drill may be used when a new guideline has been deve major revisions have been made to guidelines.	loped or when							
4.7.3	Decision makers and evaluators, per procedure 60613-C, may receive participating in a SAMG tabletop drill.	retraining by							

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5.0	EV	ALUATION OF THE BIENNIAL EXERCISE	
5.1	Foll Cor	lowing the biennial exercise, critiques shall be conducted ntrollers/Evaluators as follows:	by VEGP
5.1.1	The faci writ Cor	e lead controller/evaluator of each major facility (EOF, TSC & OSC) lity critique with players and controllers/evaluators. Players are encour- tten comments and evaluations in addition to verbal comm ntrollers/evaluators are required to submit written evaluations.	will conduct a aged to submit ents. Lead
5.1.2	Fol ove	lowing the facility critique, controllers/evaluators and key players are rall exercise critique.	invited to an
5.2	A v sub	vritten report with critique results and action items shall be prepared b mitted to the Nuclear Plant General Manager.	y the EPC and
5.2.1	Ap <sub>1</sub> the	propriate departments are responsible for implementing corrective action Nuclear Plant General Manager.	ns approved by
5.2.2	The rev:	EPC is responsible for ensuring that Emergency Plan Implementing ised as necessary, as a result of critique items identified by the exercise.	Procedures are
5.2.3	If r trai Pre	esulting changes to the procedures warrant retraining of emergency p ning shall be scheduled and conducted, per Procedure 91601-C paredness Training".	ersonnel, such , "Emergency
5.2.4	lf o nec wil Em	changes to the procedures impact the interface with offsite agencie sessary changes to plans and/or procedures of offsite agencies, those it l be documented and the changes sent to the offsite agencies by the hergency Preparedness Manager.	s, or result in tems of impact e Training and
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E 0	Ate Approved 4/05/2002		EM	ERGENCY DRILLS AND EXERCISES	Page Number 9 of 19					
F	6.0	REF	ERENCE	<u>CS</u>						
	6.1	VEG	VEGP EMERGENCY PLAN							
	6.2	PRO	PROCEDURES							
	6.2.1	0005	1-C,	"Procedures Review And Approval"						
	6.2.2	0015	0-C,	"Condition Reporting and Tracking System"						
	6.2.3	6061	3-C,	"Control and Use of Severe Accident Management Guidelin	es (SAMG)"					
	6.2.4	9130	2-C,	"In-Plant Sampling And Surveys"						
	6.2.5	9130	3 <b>-</b> C,	"Field Sampling And Surveys"						
	6.2.6	9130	4-C,	"Estimating Offsite Dose"						
	6.2.7	9130	7 <b>-</b> C,	"Contaminated Injury"						
	6.2.8	9160	1-C,	"Emergency Preparedness Training"	:					
	6.2.9	9170	1-C,	"Preparation And Control Of Emergency Planning Document	nts"					
	6.2.10	9200	0-С,	"Fire Protection Program"						
	6.3	NUR Radi Plant	EG-0654 ological l ts"	, FEMA-REP-1, Rev. 1, "Criteria for Preparation and Emergency Response Plans and Preparedness in Support of	Evaluation of Nuclear Power					
	6.4	10CI	FR50.48,	"Fire Protection"						
	6.5	10Cl Utili	FR50, Ap zation Fa	opendix E, "Emergency Planning and Preparedness for Dicilities"	Production and					
	6.6	NRC "Sub	C Letter,	Docket Nos. 50-424 and 50-425, License Nos. NPF-6 of Emergency Preparedness Exercise Scope, Objectives and s	8 and NPF-61 Scenarios"					
				END OF PROCEDURE TEXT						

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0.00/2002	<u> </u>	CHECKLIST 1	Sheet 1 of 1
		DRILL/EXERCISE FREQUENCIES	
1.	<u>SEN</u>	<b>11-ANNUALLY</b>	
	•	Health Physics drill.	
2.	<u>CAI</u>	LENDAR YEAR (ANNUALLY)	¢
	•	Off year drill (perform during year when there is no biennial exercis	se).
	٠	Medical emergency drill.	
	٠	Radiological monitoring drill.	
	٠	Post-accident sampling drill.	
	•	Assembly and accountability drill.	
	•	SAMG table top drill	
3.	BIE	NNIAL <u>(EVERY TWO YEARS)</u>	
	•	Communications between VEGP, federal, state and county Emerg Organizations, and emergency teams.	ency Response
	•	Emergency exercise.	
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		CHECKLIST 2 Sheet 1	of 5
		DRILL/EXERCISE SCENARIO FORMAT	
1.	The	e following format may be used by the Drill or Exercise Preparer.	
2.	The foll	e first page of the drill/exercise package should be a Title Page containing the lowing information:	•
	¢	VOGTLE ELECTRIC GENERATING PLANT	L
		Emergency Preparedness	
		Drill/Exercise	
		(Title)	
		(Date)	
3.	Pag foll	ge number 2 of the package should be a "Table of Contents" similar in design to the lowing outline:	e
	Sec	ctions:	
	I	Introduction	
	II	Objectives and Extent of Play	
	III	Guidelines	
		A. **Safety Precautions	
		B. **Controller/Evaluator Instruction	
		C. **Performance Evaluation Standards	
		D. Controller Assignments	
**Informati	on in	n Controller Handbook	

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			CHECKLIST 2	Sheet 2	of 5
			DRILL/EXERCISE SCENARIO FORMAT		
	IV	Scena	rio		
		A	Initial Conditions		
			1. Plant Status		
		Ţ	2. Meteorological Conditions		
		В.	Narrative Summary		
		C.	Major Sequence of Events		
	v	Data			
		А.	Messages		
		B.	Plant Parameters		
		C.	In-plant Chemistry		
		D.	In-plant Health Physics		
		E.	PERMS		
		F.	Meteorological		
		G.	Dose Assessment		
		H.	Offsite Plume Maps & Data		
4.	Intro assig	duction	- This section contains the schedule, a list of particip and the extent of the drill or exercise.	ants, controller	r

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				CHECKLIST 2	Sheet 3	of 5	
			<u>DRII</u>	L/EXERCISE SCENARIO FORMAT			
5.	Obje that will	ectives a the drill be defin	nd Exte exercis ed and f	ent of Play - This section shall clearly state, in detail, e package was designed to evaluate. In addition, areas the extent to which elements will be demonstrated.	the objectives s of simulation		
6.	Guio and seve	Guidelines - Includes those items that provide guidance to the participants, Controllers and Evaluators throughout the performance of the drill. This section is broken down into several subsections.					
	a.	Safet jeopa	y Preca rdizing	autions - General and detailed precautions necessar plant and personnel safety.	ry to prevent		
	b.	Conti and E	oller/E <sup>-</sup> valuato	valuator Instruction - Those information items that t ors need to be aware of to perform their function.	he Controllers		
	<b>C.</b>	Perfo Conti be uti	rmance ollers n lized:	Evaluation Standards - To ensure validity of the evaluation standards - To ensure validity of the evaluation utilize the same grading criteria. The following states	uation, all drill andards should		
		(1)	Reco	rding Times of Actions			
			(a)	An Emergency Response Facility will be deemed to when its personnel accountability check is complete or when the facility manager declares that the facility	b be in service and reported is functional.		
			(b)	Controllers shall use the forms provided during the drill to take notes of the time and events. It is inten to complement the Evaluation Forms used to grade the	e course of the ided to be used he exercise.		
		(2)	Evalı	uation Standards			
			(a)	Excellent - Personnel and equipment always func error the first time, every time. There were encountered and all personnel and equipment functi- much greater than could reasonably be anticipated.	tioned without no problems oned at a level		

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	DRILL/EXERCISE SCENARIO FORMAT							
		(b) Good - Personnel and equipment generally performed expected. Any errors or problems were minor correctable.						
		(c)	Satisfactory - Personnel and equipment performe expectations with few minor exceptions. Any err not severe and could be corrected without undue lab	d according to ors noted were or or expense.				
<b>4</b>		(d)	Poor - Personnel and equipment generally per expectations and there were several significant def The area's ability to carry out its functions was dimi	rformed below iciencies noted. nished.				
		(e)	Failure - Personnel and equipment consistently faile required and there were serious deficiencies noted impaired the ability of the Emergency Response Fa carry out its functions.	ed to perform as which severely acility (ERF) to				
		(f)	Not Observed - Through no fault of the exercise.					
	(3)	Categ	ories for Evaluation					
		(a)	Activation and Response					
		(b)	Communications/Dissemination of Information					
		(c)	Procedures					
		(d)	Direction and Control					
		(e)	Material and Equipment	6				
		(f)	Protective Measures					
		(g)	Access Control	:				
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011001			CHECKLIST 2	Sheet 5	of 5
			DRILL/EXERCISE SCENARIO FORMAT		
7.		Exerci	ise Scenario - An outline of the sequence of drill events.		
-		a.	Initial Conditions - Those parameters and plant conditions ne established to set the stage to commence the drill or exercise.	cessary to be	;
1 2 - 2		b.	Meteorological Condition - Those meteorological parameters establish the initial conditions for the drill or exercise radiation releases	necessary to ase.	I
	°	C.	Narrative Summary - A brief narrative description of the drill/exe of events.	rcise sequence	;
		d.	Major Sequence of Events - A timetable detailing when major events will occur.	drill/exercise	;
8.	-	Data	n de la construcción de la constru La construcción de la construcción d La construcción de la construcción d		
		a.	Messages Summary (optional) - a multi-column format which pro time, page/message number, a summary of the message, anticipate the players and any instructions to the Controller.	vides scenario ed response of	•
		b.	Messages - Document used to transmit parameters and plant comparticipants of the drill/exercise. The Message (Data Sheet 1) show the participant. The time block shall be the drill time or condition the message should be issued. The message should contain in sequence the events, changes in parameters, indications or ac participant shall observe, hear, smell, feel or experience and then received.	nditions to the ald be given to n under which chronological tions that the spond to.	; ; [ ;
		C.	Plant Data - This section shall include supportive tables of applic for various times throughout the drill/exercise. (When the simul simulator script will be substituted for the plant data.)	able plant data ator is used, a	1 1
		d.	Radiological Data - This section shall include offsite plume map plant radiological conditions and maps and tables of applicable rad readings.	s and data, in- liation monitor	- r
		e.	Meteorological Data - This section shall contain meteorological cor drill/exercise.	nditions for the	1

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	DATA SHEET 1	Sheet 1 of 1
	SAMPLE MESSAGE FORM	
DRILL/EXERC	ISE TITLE	
ТО:	TIME:	
MESSAGE:	*. 1 <sup>5</sup>	
****	***************************************	*****
	THIS IS A DRILL	
	DO NOT initiate actions affecting normal plant operations.	
******	*****	****
***********	***************************************	*****
	THIS IS A DRILL	
***********	***************************************	****
EXPECTED A	CTIONS:	
CONTROLLER	R PROMPTS (IF NECESSARY):	
	Page No.	

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	DATA SHEET 2 Sheet 1 of 2
	DRILL/EXERCISE APPROVAL REQUEST
	DATE
From:	Emergency Preparedness Coordinator
via	Training & Emergency Preparedness Manager
To:	Nuclear Plant General Manager
1.	Request your approval to conduct an Emergency Drill Emergency Exercise Test as follows:
2.	Date Start Time Duration Drill/Exercise date and time confidential?
3.	Type of Drill         Image: Full Scale Exercise         Image: NRC Evaluated         Image: FEMA Evaluated
	<ul> <li>On-Site Facility Activation</li> <li>Classification &amp; Notification</li> </ul>
	□ Recall □ Drill
	<ul> <li>Test</li> <li>Health Physics</li> </ul>
	<ul> <li>Notification</li> <li>Medical/Contaminated Injured</li> <li>Assembly and Accountability</li> <li>SAMG Table Top</li> </ul>
	Other
4.	Anticipated Classification Levels       Image: General Emergency         NOUE       Image: General Emergency         ALERT       Image: Not Applicable         SITE AREA EMERGENCY
5.	On-Site Participation         Control Room       Security         Simulator       Corporate Emergency Operations Center         TSC       Public Info       EOF         OSC       Other       Other
	□ EOF □ NONE

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		LIVI	ENIERGENCY DRILLS AND EAERCISES						18 of 1 Sheet 2	19 2 of 2	
		Ī	RILL/EXE	DA7 RCIS	FA SH <u>E AP</u>	IEE' PRC	T 2 <u>)VAL</u>	REQUI	EST	Sheet 2	. 01 2
6.	<u>O</u> :	ff-Site Parti	cipation:		NO	NE		Comm	unications Only		
	□ GEN □ S. C □ Burl □ SRS □ Aike □ Aile □ Barr □ Hos	MA arolina ce County en County ndale Coun nwell Count pital	L EOC EOC EOC EOC ty EOC y EOC Burl	c c c c c c c c c c	unty		FEOC FEOC Ambu Field 7	lance Feams rs Hosp	<ul> <li>Field Teams</li> <li>Field Teams</li> <li>Fire Suppor</li> <li>EOF</li> </ul>	s 🗆 EOF s 🗆 EOF t	
	□ NRC □ Othe	C er									
7.		adiological Off-Si On-Si Dose I Post-A	te Release te High Radia Projection an Accident Sam	tion d Fiel pling	NONE d Mor	E	ing				
8.	O a. b. c. d.	bjectives:		Att	ached	/See	Below				
	G1										
	Su	omnied.	Emergency ]	Prepa	rednes	s Co	ordina	tor	· · · ·	Date	
			Training & ]	Emerg	gency	Prep	aredne	ss Mana	ager	Date	
	Ар	proved:	Nuclear Plan	nt Ger	neral N	Aana	ager		e e	Date	
			*Verbal Ap	prova	l Obta	ined				Date	<u> </u>
* Verba	l approva	al may be ol	otained for m	inor d	lrills.						

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	DATA SHEET 3	Sheet 1 of 1
	SAMPLE DRILL/EXERCISE REPORT	
From:	Emergency Preparedness Coordinator	Date
	Linergency reputedness Coordinator	
	Training and Emergency Preparedness Manager	Date
То:	Nuclear Plant General Manager	
1.	An Emergency Drill/Exercise was conducted on	
2.	The results of the critique, recommended corrective actions, an corrective actions are attached for your approval.	nd responsibility for
	NOTE	
	[Format for Critique Items]	
Item #	Critique Item:	
	Corrective Action:	
	Responsibility:	
	Due Date:	
	A/I#	
From:	Nuclear Plant General Manager	
3.	The results of the critique have been reviewed and corrective action approved.	recommendations are
	Nuclear Plant General Manager	Date

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Date Approved 04/05/2002	DUTIES OF THE TSC SUPPORT COORDINATOR	Page Number 1 of 7
REFEREN	CE USE PROCEDURE PRB REVIEW	REQUIRED
1.0	PURPOSE	
	The purpose of this procedure is to provide instructions to the Technical (TSC) Support Coordinator for overall TSC logistical support.	Support Center
2.0	RESPONSIBILITIES	
2.1	TSC SUPPORT COORDINATOR	
2.1.1	The TSC Support Coordinator shall have the following responsibilities:	
2.1.1.1	Plan and implement logistical support including personnel, transport equipment, supplies, and communications.	ortation needs,
2.1.1.2	Contact private organizations for required support services.	
2.1.1.3	Timely completion of offsite notifications.	
3.0	PREREQUISITES	
	An Alert, Site Area Emergency, or General Emergency has been d Emergency Director has ordered activation of the TSC.	eclared or the
4.0	PRECAUTIONS	
4.1	This procedure shall not take priority over measures required to maintain plant to a safe operating condition.	n or restore the
4.2	This procedure does not replace any plant operating procedure.	
5.0	PROCEDURE	
5.1	TSC ACTIVATION	
5.1.1	For an Alert, Site Area Emergency, or General Emergency, the TSC Supp shall report to the TSC and receive a briefing from the TSC Manager.	ort Coordinator
5.1.2	The TSC Support Coordinator shall obtain and initiate the "TSC Supp Checklist".	ort Coordinator

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Date Approved 04/05/2002		DUI	TIES OF THE TSC SUPPORT COORDINATOR	Page Number	7			
5.2	STA	AFF SUPI	ERVISION					
	The	TSC Sup	port Coordinator shall supervise the activities of the following	g TSC staff:				
5.2.1	Stat	Status Loop Communicator						
5.2.2	Adn	nin Suppo	rt Staff (Assist the Support Coordinator with administrative d	uties).				
5.2.3	Eme noti	Emergency Notification Network (ENN) communicators (timely completion of offsite notifications).						
5.3	RE	COVERY	<b>,</b> .					
	The as re	TSC Sup equested b	port Coordinator shall provide support for recovery and re-ency the TSC Manager or Emergency Director.	ntry operations				
6.0	<u>RE</u>	FERENC	ES					
6.1	VE	GP EMEI	RGENCY PLAN					
6.2	PRO	OCEDUR	ES					
6.2.1	911	01-C,	"Emergency Response Organization"					
6.2.2	912	01 <b>-</b> C,	"Activation And Operation Of The TSC"					
6.2.3	912	04-C,	"Emergency Response Communications"					
6.2.4	914	01-C,	"Assembly And Accountability"					
6.3	NU Rad Plar	REG-0654 liological nts"	4, FEMA-REP-1, Rev. 1, "Criteria for Preparation and Emergency Response Plans and Preparedness in Support of	Evaluation of Nuclear Power	,			
			END OF PROCEDURE TEXT					

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Approved J. T. C	i By Gasser	Vogtle Electric Generating Plant	Procedure Number Rev 91106-C 12
Date App 04/05/	roved 2002	DUTIES OF THE TSC SUPPORT COORDINATOR	age Number 3 of 7
		DATA SHEET 1 <u>REQUEST FOR AMBULANCE ASSISTANCE</u>	Sheet 1 of 1
		NOTE	
		State "This is a Drill" when appropriate.	
1.	This i	is at the Vogtle Electric Generating Plant (VEG (Name, Title)	P).
2.	Today	y at we have had a contaminated injury a (Date) (Time, 24-hour clock)	it the
	plant	requiring transport toHospital. (Hospital Name)	
3.	Accid a.	lent Information: Number of Contaminated Injured Patients	
	b. с.	Remarks	
4.	We re the sc	equest that you report to Plant Vogtle as soon as possible. Plant Security will sene.	escort you to
5.	Please	e provide:	
	a.	Your Name/Title	
	b.	Expected Time of Arrival (Time, 24-hour clock)	<u> </u>
6.	For fi	urther information, callat(Name/Title) (Phone	Number)
		(Name/Title) (Date/ Tin	ne)

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Approve J. T.	d By G <b>asser</b>	Vogtle Electric Generating Plant	Procedure Number 91106-C	Rev 12
Date App 04/05	proved 2002	DUTIES OF THE TSC SUPPORT COORDINATOR	Page Number 4 of	7
		DATA SHEET 2 <u>REQUEST FOR HOSPITAL ASSISTANCE</u>	Sheet 1	of 1
		NOTE		
		State "This is a Drill" when appropriate.		
1.	This is	sat the Vogtle Electric Generating Plant (VE (Name, Title)	GP).	
2.	Today	(Date) at we have had a contaminated injury requiring your assistance.	at the plant	
3.	Accide	ent Information:		
	a.	Number of Contaminated Injured Patients		
	b.	Description of Injured		•
	c.	Expected Time of Arrival at Hospital*		,
	d.	Remarks		-
4.	We re contar	equest that you implement your Hospital Radiological Procedures to recein minated injury from Plant Vogtle.	ve and treat a	L
5.	Please	e provide:		
	a.	Your Name/Title	<u> </u>	-
	b.	Expected Time of Arrival(Time, 24-hour clock)		-
6.	For fu	arther information, callatatatat		-
		(Name/Title) (Phon	e Number)	
		(Name/Title) (Date/ T	ime)	
*	Under Hospi estima	r normal driving conditions, it will require 25 minutes to drive from VEGP to ital, and 45 minutes to drive from VEGP to Doctors Hospital. Use this ating the time of arrival.	Burke County as a guide ir	7 1

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04/05/.	2002	TSC SUPPORT COORDINATOR CHECKLIST	Sheet 1	of 3
DESI	<u>GNEES</u> :	Document Control Supervisor; Materials Supervisor; Senior Speci Administrative Assistants, Senior; Designated Document Control 1	alists; Personnel	
<u>RESI</u>	ONSIBI	LITIES:		
	Plan and private of	implement logistical support including personnel, equipment and sup rganizations for support services.	plies. Contact	
<u>INIT</u>	IAL ACT	IONS		
1.	Report to	the TSC.		
2.	Sign in o	n Emergency Response Facility Roster and post names on TSC organizat	ion board.	
3.	Ensure th	at all TSC personnel badge in at TSC Automated Control Access Termin	al (ACT).	
4.	If a reca Emergen answered	Il of off duty personnel is initiated, assist the TSC manager in the cy Response Facility Roster. Ensure that all personnel reporting to I the Fitness For Duty question.	review of the the TSC have	
5.	Obtain w	ork packets and emergency position badge.		
6.	Receive	briefing from TSC Manager.		
7.	Direct fa radios an	cility personnel to check operability of all communications equipment ( d facsimiles). (Procedure 91204-C, "Emergency Response Communicati	(i.e. telephones, ons")	1
8.	Ensure th	hat the (West Door) to the TSC corridor is secured.		
9.	Ensure th	ne facility clocks are synchronized with the Integrated Plant Computer.		
10.*	Ensure th	ne TSC Status Loop Communicator performs the following responsibilities	es:	
	a. M	aintains and controls communications between Emergency Response Fac	ilities.	
	b. M sta	aintains TSC sequence of events board, plant parameters board, and ra atus boards every 30 minutes.	diation monitor	r
	c. Pr th	ovide pertinent information to individual stations when they can emselves.	not retrieve i	t
*Cor	itinuing A	ctivity		

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				Sheet 2	of 3
		ſ	ISC SUPPORT COORDINATOR CHECKLIST		
<u>SUB</u>	SEQUENT	<u>ACTION</u>	<u>18</u>		
1.*	Maintain e	mergency	v log.		
2.*	* Maintain current Emergency Response Facility Roster for all personnel reporting to the TSC as directed in Procedure 91201-C, "Activation And Operation Of The TSC". Ensure that personnel sign in and out when entering and leaving the TSC.				
3.*	3.* Ensure sufficient support staff are available.				
4.*	Distribute	drawings,	documents and office supplies as required.		
5.*	Obtain dra Maintenan Room, Ma	awings, 1 ce Buildi intenance	manuals and other procedures from the Document Con ng. (Equipment manuals may be obtained from the Doc Building or Service Building.)	trol Room or ument Control	·
6*	Obtain too Building.	ls and ot	her equipment from the Auxiliary Building tool crib or in th	e Maintenance	;
7.	Arrange fo	r tools an	d equipment not available onsite with offsite private organization	ions.	
			NOTES		
		a.	Ensure that Security personnel are notified whenever an amlis requested.	bulance	
		b.	Use Data Sheet 1 or 2 if ambulance or hospital assistance is	needed.	
8.*	At the dire	ection of pport serv	the TSC Manager or Emergency Director, contact private o vices.	rganizations to	•
9.	Provide in protected a	formation formation formation	n to Security regarding offsite assistance vehicles needing slude estimated time of arrival and vehicle type.	g to enter the	;
· 10.	Develop a	duty roste	er for extended emergency operations.		
		ivity			
001					
Approved By J. T. Gasser	Vogtle Electric Generating Plant	Procedure Number 91106-C	Rev 12		
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Date Approved 04/05/2002	DUTIES OF THE TSC SUPPORT COORDINATOR	Page Number 7 of	7		
		Sheet 2	of 2		

#### Sheet 3 of 3

### TSC SUPPORT COORDINATOR CHECKLIST

### SUBSEQUENT ACTIONS CONTINUED

- 11. Provide temporary quarters and meals for personnel involved with the emergency operations. Local hotels and caterers are listed in the offsite telephone directories.
- 12. As designated NRC personnel report to the TSC; issue them emergency identification badges, direct them to sign in on the Emergency Response Facility Roster and direct them to their predesignated work spaces.
- 13. Perform relief and complete "General Relief Checklist" in Procedure 91101-C, "Emergency Response Organization".
- 14. After the emergency condition has been declared terminated, proceed as follows:
  - a. Participate in briefing with TSC Manager and assist in transition to Recovery Organization.
  - b. Collect emergency logs and checklists from TSC staff and turn over to the Emergency Preparedness Coordinator.
  - c. Stand by for assignment to the Recovery Organization, return to normal work station, or dismissal.

04/05/2002

# Vogtle Electric Generating Plant

**EMERGENCY PREPAREDNESS TRAINING** 

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16

#### **REFERENCE USE PROCEDURE**

# PRB REVIEW REQUIRED

### 1.0 **PURPOSE**

The purpose of this procedure is to specify the training development, training requirements and the periodic retraining of all personnel assigned to the Emergency Response Organization (ERO), including offsite emergency response personnel who may support an emergency at Vogtle Electric Generating Plant (VEGP).

#### 2.0 <u>DEFINITIONS</u>

#### 2.1 ANNIVERSARY MONTH

The month one year after an individual completed training or the end of the training period for those individuals who completed ERO training in a continuing training program. Training related qualifications will normally be considered expired the last day of the anniversary month.

#### 2.2 SEMI-ANNUALLY

Semi-annual means once in the first six months and once in the second six months of each calendar year.

#### 2.3 CALENDAR YEAR

Calendar year is January 1<sup>st</sup> through December 31<sup>st</sup>. Training related qualifications will normally be considered expired the last day of December.

#### 2.4 TRIENNIAL ANNIVERSARY MONTH

The month three years after an individual completed training or the end of the training period for those individuals who completed ERO training in a continuing training program. Training related qualifications will normally be considered expired the last day of the triennial anniversary month.

#### 3.0 <u>RESPONSIBILITIES</u>

**3.1** The Emergency Preparedness Coordinator (EPC) is responsible for ensuring that all emergency preparedness training is conducted and for coordinating training for offsite ERO Agencies (i.e. offsite licensee and offsite support agencies).

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3.2	The Training and Emergency Preparedness Manager is responsible for the following:	
3.2.1	Developing, scheduling, and conducting training for onsite ERO personnel in accordance with the training matrix presented in Table 1.	
3.2.2	Developing, scheduling, and conducting fire training for onsite fire brigade personnel.	
3.2.3	Developing, scheduling, and conducting specialized emergency preparedness training for selected security officers.	
3.2.4	Conducting Multi-Media First Aid Training, or its equivalent.	
3.2.5	Scheduling and training non-licensed augmentation personnel (e.g. contractors, health physicists, vendors, etc.).	
3.2.6	Extending individuals training related qualifications into a minimal grace period not to exceed 15 months from last training date. This applies to those training requirements listed in Table 1 excluding post-accident sampling, First Aid and SAMG retraining.	
4.0	PREREQUISITES	
	None	
5.0	PRECAUTIONS	
5.1	Lesson plans should be developed in conformance with applicable VEGP training policies and procedures.	•
6.0	PROCEDURE	
6.1	VEGP GENERAL EMPLOYEE TRAINING (GET)	
6.1.1	All badged VEGP employees will be required to demonstrate a working knowledge of applicable emergency response procedures. Associated instruction will be provided as a part of implementation of Procedure 00700-C, "General Employee Training (GET)", and will include the following topics:	
6.1.1.1	Emergency classifications.	
6.1.1.2	Emergency warning signals.	
6.1.1.3	Assembly and accountability.	
6.1.1.4	Site evacuation.	

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6.1.1.5	Radiation exposure control, monitoring, and decontamination.								
6.1.1.6	Individual response.								
6.2	VEGP EMERGENCY RESPONSE ORGANIZATION TRAINING								
6.2.1	Personnel assigned to the ERO shall receive training specific to their assignmer Training categories required for emergency personnel are detailed in Table 1, wh training subjects are described in Table 2.	ıts. ile							
6.2.2	Written lesson plans shall be maintained for all courses described in Table 2 exc. Multimedia First Aid. Written exams and hands-on equipment or proceed demonstrations may be used to establish trainee proficiency. Walk-through drills with the-spot correction of erroneous performance will be incorporated when appropria When applicable, industry emergency experience (e.g., lessons learned at TMI-2) shall included in the instructional materials.	ept ure on- ite. be							
6.2.3	The training shall be provided initially to personnel assigned to the ERO, and no later than the anniversary month thereafter. Anniversary month retraining consists of initial training material reinforcement and appropriate lessons learned from the previous year's operating experience. Lessons learned that are distributed by other methods may not be included in anniversary month retraining. Additionally, the training shall be conducted whenever necessitated by significant revisions to the VEGP Emergency Plan, procedures or emergency equipment. Training will be provided as often as necessary to ensure that an adequate number of qualified personnel are available to staff the ERO at all times.								
6.2.4	The Nuclear Plant General Manager may receive credit for Management of Radiologi Emergencies (MRE) retraining by participating in an integrated drill or exercise.	cal							
6.2.5	Personnel responsible for performing post accident sampling shall be trained sen annually. Pertinent Supervision will receive anniversary month retraining.	ni-							
6.2.6	In addition to that specified in the Emergency Plan training matrix (Table 1), following training shall be provided:	the							
6.2.6.1	The Fire Brigade will receive specialized training in accordance with Procedure 00705 "Fire Protection Training Program".	-С,							
6.2.6.2	The First Aid Team (both members), and Search and Rescue Team (one member) sh receive the Multi-Media First Aid course, or equivalent within their triennial annivers month.	nall ary							
6.2.6.3	Selected security officers shall receive specialized emergency preparedness training (e Security Supervisor, Alarm Station Operators).	.g.,							
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- 6.2.7 Designees for positions in the Emergency Response Organization will be selected commensurate with normal duty managerial, supervisory and/or technical skills. The EPC will provide the appropriate Training Supervisor with a list of all ERO designees. The appropriate Training Supervisor will schedule such designees for required training in accordance with the Emergency Plan training matrix (Table 1). A list of all onsite ERO qualified personnel is maintained on a Training Qualification Database. This database has the ability to be reviewed by all plant staff. An unqualified ERO report will be published monthly and distributed to plant management.
- 6.2.8 Select ERO personnel, (Emergency Director, Technical Support Center (TSC) Manager, TSC Operations Supervisor and TSC Engineering Supervisor), will receive Severe Accident Management Guidelines (SAMGs) training in accordance with procedure 60613-C, "Control and Use of Severe Accident Management Guidelines (SAMG)".

# 6.3 OFFSITE EMERGENCY RESPONSE ORGANIZATION TRAINING

- 6.3.1 The EPC shall assure that special training is available to members of the Offsite ERO who may enter the site to provide emergency support to VEGP. Training in site emergency response for Offsite ERO personnel shall include the following:
- 6.3.1.1 Procedures for notification.
- 6.3.1.2 Expected emergency roles.
- 6.3.1.3 Basic radiation protection procedures.
- 6.3.1.4 Site orientation.
- 6.3.1.5 Security procedures.
- 6.3.2 The EPC shall offer initial training to offsite ERO agencies (fire/rescue, ambulance, etc.). Retraining shall be offered each calendar year thereafter. This retraining is normally performed prior to the annual exercise. This training will be coordinated through, and presented by, the responsible onsite training agency (HP/Chem Training, Security Training Staff, Fire Training, etc.). When local agencies are a part of a mutual aid pact, the EPC shall offer the training to members of the pact to ensure thorough coverage.

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6.3.3	Selected state and local emergency response management personnel with offsite emergency response roles will be offered a seminar/training course in specific areas:										
	a. The VEGP emergency classification system.										
	b. The VEGP protective action recommendation criteria and their relationship to plant conditions.										
	c. The VEGP emergency response organization.										
6.3.3.1	These offsite management personnel will be offered initial training and retraining each calendar year thereafter. Coordination with offsite authorities during these training sessions will include planning for participation in VEGP emergency exercises.										
6.4	MEDIA TRAINING										
	Georgia Power Company's Public Information Department is responsible for news media training as described in the Emergency Communication Plan, Appendix 8 to VEGP Emergency Plan.										
6.5	QUALIFICATION CRITERIA										
6.5.1	Qualification for members of the ERO shall be based on the completion of all required training in accordance with Table 1.										
6.5.2	Instructor qualifications for emergency preparedness training shall be completed according to Procedure 60100-C, "Training Department Training And Qualification Procedure".										
6.5.3	Student performance criteria shall be established for emergency preparedness courses, and included in the written lesson plans. Written examinations shall be based on the student performance criteria. In the instance where an individual does not receive a passing grade on a written examination or does not perform adequately during a hands- on, walk-through drill, the student shall receive additional instruction until the student performs satisfactorily, or is relieved of ERO assignments.										
6.6	DOCUMENTATION										
6.6.1	All emergency preparedness training shall be documented. The Supervisor of HP/Chem Training shall maintain the training program for the onsite ERO.										

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6.6.2	Training records shall include the following:									
6.6.2.1	Written lesson plans, including visual aid packages and student handouts.									
6.6.2.2	Attendance lists.									
6.6.2.3	Examination records and test scores for emergency personnel.									
6.6.3	Training records for courses conducted for the offsite ERO shall include:									
6.6.3.1	Written lesson plans or course/lesson outlines.									
6.6.3.2	Attendance lists.									
6.6.4	Training records for onsite ERO members shall be maintained for the life of the plant. Training records for offsite ERO members shall be maintained for 5 years.									
7.0	REFERENCES									
7.1	<b>VEGP EMERGENCY PLAN, Section O and Appendix 8</b>									
7.2	PROCEDURES									
7.2.1	60100-C, "Training Department Training And Qualification Procedure	:s"								
7.2.2	00700-C, "General Employee Training"									
7.2.3	00705-C, "Fire Protection Training Program"									
7.2.4	60613-C, "Control and Use of Severe Accident Management Guideling	es (SAMG)".								
7.3	NUREG-0654, FEMA-REP-1, Rev. 1, "Criteria for Preparation and Radiological Emergency Response Plan and Preparedness in Support of Plants".	Evaluation of Nuclear Power	f r							
	END OF PROCEDURE TEXT									

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		TH	RAIN	NINC	B RE	QUI	REM	T. IEN	ABL FS F	E 1 OR	VEG	P EF	RO P	ERSC	ONN	1EL						
NOTE: a – Gen b – Inch Trai c – Requ	eral Office Staff excepted uded in General Employee ining (GET) uired by only one team member	CORE DAMAGE ASSESMENT	OFFSITE COMMUNICATION	EMERGENCY PLAN OVERVIEW (b)	FIRST AID	MANAGEMENT OF RAD. EMERGENCIES	OFFSITE DOSE ASSESMENT	POST-ACCIDENT SAMPLING	REPAIR AND CORRECTIVE ACTIONS	FIELD MONITORING TEAM	RAD EMERGENCY TEAM IN- PLANT	SECURITY	MEDICAL SUPPORT OF RAD EMERGENCY	SCBA	RECALL AND ACCOUNTABILITY	RESPIRATORY PROTECTION	SAMG IMPLEMENTOR	SAMG EVALUATOR/DECISION MAKER	FIELD MONITORING TEAM COMM.	ENS OFFSITE COMMUNICATION	COMMENTS	
Emerger	ncy Director			x	ļ	x	ļ	ļ	<u> </u>	<u> </u>	ļ			x <sup>(a)</sup>				x	ļ	ļ		
EOF Ma	nager			x	<u> </u>	x	ļ	ļ	<u> </u>								ļ			<u> </u>		
EOF Sur	oport Coordinator	_	x	x		<u> </u>	<u> </u>		<u> </u>			<u> </u>					ļ					
Dose As	sessment Manager			x	<u>.</u>		x					l					<u> </u>					
Dose An	alyst			x	[		x															
Security	Coordinators			x							1	x										
TSC Ma	nager			x		x												x				
TSC Su	oport Coordinator		x	x								1										
Enginee	ring Supervisor	x		X														X				
Reactor	Engineers	x		x																		
Mainten	ance Supervisor			x					x													
Operatio	ons Supervisor			X		x												x				
Health F	Physics Supervisor			x			x				x		x									
Chemist	ry Supervisor			x				x														
OSC Ma	anager			X		x			x													
ENN Co	ommunicators		x	x																		
ENS Co	mmunicators			x																x		
TSC En	gineering Staff			x																		
Alarm S	tation Operators			x			1		}	1				<u> </u>	x	<u> </u>	1					

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			TRA	AINII	NG I	REQ	UIR	TA: EME	BLE NTS	1 (C 5 FO	ont'o R VI	d) EGP	ERC	) PE	RSC	NNI	EL						
NOTH a – Ge b – Im Th c – Re	: neral Office Staff excepted cluded in General Employee raining (GET) equired by only one team member	CORE DAMAGE ASSESMENT	OFFSITE COMMUNICATION	EMERGENCY PLAN OVERVIEW (b)	FIRST AID	MANAGEMENT OF RAD. EMERGENCIES	OFFSITE DOSE ASSESMENT	POST-ACCIDENT SAMPLING	REPAIR AND CORRECTIVE ACTION	FIELD MONITORING TEAM	RAD EMERGENCY TEAM IN-PLANT	SECURITY	MEDICAL SUPPORT OF RAD EMERGENCY	SCBA	RECALL AND ACCOUNTABILITY	RESPIRATORY PROTECTION	SAMG IMPLEMENTOR	SAMG EVALUATOR/DECISION MAKER	FIELD MONITORING TEAM COMM.	COMMENTS			
Clerks	/Support Staff			x																		i	
In-Plan	nt Monitoring			x		ļ	1		ļ		X	ļ	ļ	x	<u> </u>	<u> </u>	ļ	ļ	ļ				
Damag	ge Control/ Assessment			x		ļ			x			ļ	ļ	x				ļ	<b>_</b>				
Repair	and Modification			x	<u> </u>	ļ	ļ		x			ļ	ļ	x	ļ		<u> </u>	<u> </u>	<b>_</b>				
Search	and Rescue (c)			x	x			_	ļ	<u> </u>	<u> </u>			x		<u> </u>	ļ	ļ	<b>.</b>			l	
Fire B	rigade		<u> </u>	x	<b> </b>	L	ļ	<u> </u>	ļ	<u> </u>		<u> </u>	1	x	ļ					Training provided p	er 00705-C		
First-A	lid	_		x	x		ļ	ļ	<u> </u>	<u> </u>	ļ		x	X				<u> </u>	ļ				
Field N	Aonitoring			x		<u> </u>	ļ	ļ	ļ	x	<u> </u>	<u> </u>	ļ	ļ		X		<u> </u>	<u> </u>	ļ			
Dosim	etry			x			<b> </b>	1		ļ	ļ	ļ	ļ				<u></u>	<u> </u>				1	
Health	Physics Technicians			x	x	ļ	ļ	<u> </u>		1	x		X	x	<u> </u>		ļ			<u> </u>			
Field N	Aonitoring Team Comm.			x	ļ	1		<b>_</b>				ļ		<u> </u>	ļ		-	ļ	x	ļ		l	
Post A	ccident Sampling		1	x		ļ		x	<u> </u>	ļ		<b> </b>		x	1	<u> </u>	ļ						
Other	ERO Personnel		<u> </u>	x	ļ					ļ		ļ	ļ	<u> </u>	ļ		ļ			1		1	
Senior	Reactor Operators			x		x	<u> </u>				1			x	ļ		x		ļ	ļ		1	
Reacto	or Operators		1	x		1			<u> </u>					X	1	1	X			I		ł	

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Approved By J. T. Gasser Date Approved	Vogtle Electri	c Generating Plant	Procedure Number Rev 91601-C 16 Page Number								
04/05/2002											
		TABLE 2									
TRAINING COURSE DESCRIPTIONS											
<b>Training Cours</b>	<u>e</u>	Description									
Core Damage As	ssessment	This course covers the calculation assessing core damage and estimating terms. It includes retrieval of pertinent data from the control room; determinations based on reactor estimating cladding and/or fuel dama activity released to the containment at	methodology for g potential source at plant parameter core inventory power history; age; and resultant nosphere.								
Offsite Commun	ications	This course covers operation of communications equipment in the ERFs, communications methods, and procedures for notification of offsite emergency response agencies.									
Emergency Plan	Overview (a)	The course covers an overview of the with special attention to emergency (EPZs); emergency classification emergency response organizations; r emergency response personnel; and s and evacuation.	Emergency Plan planning zones system; onsite esponsibilities of ite accountability								
First-Aid		This course covers standard Red Cross multi-media first aid, or equivalent.									
Management of I	Radiological Emergencies	This course covers classification of emergencies; emergency notification of onsite and offsite emergency response personnel and agencies; activation and staffing of emergency response facilities; core damage assessment; protective action recommendation decision-making based on EPA PAGs; retrieval of available Integrated Plant computer (IPC) data; re-entry and repair operations; communications and information management; and recovery.									

EPO is included in G.E.T. badge training for all unescorted personnel.

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Approved By J. T. Gasser Date Approved	Vogtle Electric	Generating Plant	Procedure Number Rev 91601-C 16 Page Number						
04/05/2002 TABLE 2 (Cont'd.) TRAINING COURSE DESCRIPTIONS									
Training Course	9	Description							
Offsite Dose Ass	essment	This course covers dose projection methodology including computerized methods; retrieval of IPC data; methods for obtaining meteorological data; operation of the dose assessment computer; and interpretation of offsite dose calculation results.							
Post-Accident Sa	mpling	This course covers collection of samples from the RCS and containment atmosphere under emergency conditions; measuring radionuclide and selected chemical concentrations in those samples. Post- accident sampling training for the TSC Chemistry Supervisor will address general concepts appropriate to Supervision.							
Repair and Corre	ctive Actions	This course covers As Low As Reasonably Achievable (ALARA) principles as they apply to planning and implementing repair and corrective action; emergency exposure guidelines; and communications during repair and corrective actions.							
Field Monitoring	Team	This course covers field measurement of airborne radioactivity; radiation levels and contamination in the EPZ; collecting environmental samples; map reading; record keeping and radio communications.							
Field Monitoring	Team Communicator	This course covers the specific proced for briefing, dispatching, documenting of field monitoring teams. Training is insure the FMT communicator empl- way communication with the D Manager and/or the Dose Analyst in information gathered by the field mon	ural requirements g and supervising also provided to oys proper three- ose Assessment reference to the itoring teams						

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Approved By J. T. Gasser	Vogtle Electric	Generating Plant	Procedure Number Rev 91601-C 16							
Date Approved 04/05/2002	EMERGENCY PRE	Page Number 11 of 12								
TABLE 2 (Cont'd.)         TRAINING COURSE DESCRIPTIONS         Training Course       Description										
In-Plant Monitorii	ng Team	This course covers methods for per radiation, contamination and airbor surveys under emergency conditions; so of missing personnel; managing activities at evacuation assembly area centers; and communications for the ab	forming in-plant ne radioactivity earch and rescue health physics as and relocation pove activities.							
Security		This course covers emergency response security department Including personne traffic control; communications; ac emergency response facilities.	e activities of the el accountability; cess control to							
Respiratory Protec	otion	This course covers the hazards of airle contamination and the means by whimay be reduced.	oorne radioactive ch these hazards							
Medical Support o	of Radiation Emergencies	This course covers the responsibilities handling exposed and/or contaminat includes interfacing with onsite ambulance crews; health physics transporting a contaminated injury hospital; monitoring and decontaminat hospital; and final disposition of ambulance crew, hospital staff, emergency area (REA) at the hospital.	and methods for ted injuries. It and/or offsite activities for patient to the tion while at the the ambulance, and radiation							
SCBA		This course covers the use of a self-con apparatus, including equipment des donning and use; and inspection and a equipment failure.	ntained breathing scription; proper actions in case of							
Recall and Accour	ntability	This course covers the use of the or system, which includes equipment des proper conditions for use. Training is use of the site siren and the methods accountability.	emergency recall cription, use, and also provided on used to conduct							

Approved By J. T. Gasser	Vogtle Ele	etric Generating Plant	Procedure Number Rev 91601-C 16								
Date Approved 04/05/2002	Ate Approved EMERGENCY PREPAREDNESS TRAINING										
TRAINING COURSE DESCRIPTIONS											
Training Cours	e	Description									
SAMG Decision	Maker/Evaluator	This course covers the usage and SAMGs, which includes the philosop a high-level, big picture perspective provided on diagnosing conditions into specific guidelines, evaluating negative impacts of strategies pre- guidelines, responding to sev- interpreting the response of plant par strategy implementation, assessing th implementing strategies and deter additional mitigation is need computational aids.	application of the phy of maintaining . Training is also that require entry the positive and sented in certain vere challenges, rameters following he effectiveness of ermining whether led and using								
SAMG Impleme	ntor	This course covers the usage and a SAMGs; Severe Accident Control R & 2. This includes guidelines to m transients that proceed to core damage	This course covers the usage and application of two SAMGs; Severe Accident Control Room Guidelines-1 & 2. This includes guidelines to mitigate fast acting transients that proceed to core damage.								
ENS Offsite Con	nmunications	This course covers operation o equipment in the ERFs, communicat procedures for notification of the N Commission.	f communication ions methods, and luclear Regulatory								

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J.	Т.	Gasser	

Date Approved

04/05/2002

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Vogtle Electric Generating Plant

**CORE DAMAGE ASSESSMENT** 

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Rev

Page Number 1 of 16

# PRB REVIEW REQUIRED

#### 1.0 PURPOSE

This procedure provides a method to classify and estimate the extent of core damage through containment high range radiation monitor indications, and core exit thermocouple temperatures together with additional auxiliary indicators.

## 2.0 PRECAUTIONS AND LIMITATIONS

It is anticipated that physical processes during accidents may cause a variety of accident scenarios, resulting in differing levels of contamination throughout the containment. Containment High Range Radiation Monitors RE-005 and RE-006 view different areas and volumes of the containment. Figures 1 through 4 are intended to provide a realistic estimate of dose rate rather than bounding values. These results can be affected by:

- Changes in the density of the containment atmosphere
- Iodine spiking
- Uncertainties in core inventory
- Migration of fission products from the core to the containment
- Fission product plateout during accident conditions
- Fission product accumulation in operating equipment
- Rain-out of fission products on floor areas vs. grating.

# 3.0 PREREQUISITES

An emergency condition has been declared and core damage is suspected.

# 4.0 <u>RESPONSIBILITIES</u>

# 4.1 CHEMISTRY DEPARTMENT

4.1.1 Chemistry personnel are responsible for post-accident sampling and analysis activities and transmitting data to the Engineering personnel coordinating core damage assessment activities.

# 4.2 OPERATIONS DEPARTMENT

4.2.1 Operations Department personnel are responsible for collecting, recording and transmitting to the TSC Engineering personnel coordinating damage assessment activities, data provided by Control Room instrumentation through implementation of Procedure 91503-C, "Control Room Instrumentation Output For Assessment Of Core Damage".

	Vogtle Electric Generating Plant	Procedure Number Rev 91502-C 12
	CORE DAMAGE ASSESSMENT	Page Number 2 of 16
PL	ANT ENGINEERING DEPARTMENT	
Eng incl to c	ineering personnel are responsible for overall coordination of t uding the assignment of responsibilities to other groups or individuals omplete the assessment.	his procedure as is required
	NOTE	
	Coordinate with the Operations Supervisor on starting of the $H_2$ a inside the affected containment building if core damage is surface Indication of hydrogen concentration is available within 30 minimitiating flow through the monitors when in standby.	analyzers uspected. nutes of
Eng Inve	gineering personnel are responsible for implementing Procedure 91 entory Determinations Using Reactor Power History".	504-C, "Core
Eng mar	gineering personnel, as coordinators of assessment activities, are responagement.	nsible for data
Eng (Da	gineering personnel are responsible to review the completed core dan ta Sheet 1 of this procedure).	nage estimates
Eng	gineering personnel are responsible for making all damage estimates.	
	PLA Engincl to c Eng Inva Eng (Da Eng	Vogtle Electric Generating Plant         A           CORE DAMAGE ASSESSMENT           PLANT ENGINEERING DEPARTMENT           Engineering personnel are responsible for overall coordination of the including the assignment of responsibilities to other groups or individuals to complete the assessment.           NOTE           Coordinate with the Operations Supervisor on starting of the H2 a inside the affected containment building if core damage is sure indication of hydrogen concentration is available within 30 minimitating flow through the monitors when in standby.           Engineering personnel are responsible for implementing Procedure 91 Inventory Determinations Using Reactor Power History".           Engineering personnel, as coordinators of assessment activities, are responsanted as the procedure).           Engineering personnel are responsible to review the completed core damage.

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Date Approved 04/05/2002	CORE DAMAGE ASSESSMENT     Page Number 3 of 16			
5.0	MAIN BODY			
5.1	EVALUATION OF INITIATING EVENT AND PRELIMIN OF CORE INVENTORY NOTES	ARY INDICATIONS		
	a. No generalized core damage is likely if the fuel ass been uncovered. If the RVLIS full range instrume the collapsed liquid level has never been below th and no core exit thermocouple temperatures of superheated steam at the corresponding RCS indicated, then no generalized core damage is proba-	emblies have not ent indicates that e top of the core corresponding to pressure were ble.		
	b. If the core was uncovered, increases in the CVCS containment atmosphere process radiation mo Containment Building area radiation monitors a some degree of fuel damage occurred.	letdown monitor, onitor, and the re evidence that		
	c. The automated core damage spreadsheet may be us manual method when performing core damage asses	sed in lieu of the ssment.		
5.1.1	The TSC Engineering group may implement Procedure 91504-C, "Core Inventory Determinations Using Reactor Power History", if required by step 5.2.3.b or step 5.3.3.b.			
5.1.2	The TSC Engineering personnel should request the Operations De Procedure 91503-C, "Control Room Instrumentation Output For Damage". The data may be available from the Integrated Plant C Loop and recorded on Data Sheet 1 of procedure 9150. Instrumentation Output For Assessment Of Core Damage".	partment to implement • Assessment Of Core Computer or the Status 3-C, "Control Room		
5.1.3	Obtain the maximum thermocouple temperature observed, maximination monitor reading and time of readings, minimu containment spray status from Data Sheet 1 of Procedure 915 Instrumentation Output For Assessment Of Core Damage, and reco	num containment high m RCS pressure, and 03-C, "Control Room ord on Data Sheet 1.		
5.1.4	Determine the time lapse between core shutdown and the containment high range radiation monitor reading.			
5.1.5	Using the data from step 5.1.3 and the time lapse from step 5.1.4, compare the data to the plant status in Table 1, "Preliminary Core Damage Assessment," and record the fuel rod fission product status on Data Sheet 1.			

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5.1.6	Corr trans Dire	plete Preliminary Core Damage Assessment section of Data Sheet 1. smit a copy of the preliminary core damage assessment results to the total sector or TSC Manager.	Immediately he Emergency		
5.1.7	If th Step dam	If the preliminary core damage assessment indicates possible fuel rod clad damage, go to Step 5.2. If preliminary core damage assessment indicates possible fuel over-temperature damage, go to Step 5.3. Otherwise continue to monitor plant parameters.			
5.2	EST	IMATION OF FUEL ROD CLAD DAMAGE			
5.2.1	Estin Read	mate Fuel Rod Clad Damage Based on Containment High Range Radi ding.	iation Monitor		
	a.	Find containment radiation level for 100% clad damage from Figure	;3.		
	b.	Obtain current containment radiation level.			
	c.	Estimate clad damage using:			
% Cla	ad Dar	nage <sub>CRM</sub> = <u>Current Containment Radiation Level</u> Predicted Containment Radiation Level at 100% Clad Dama	ge		
5.2.2	Esti	mate Fuel Rod Clad Damage Based on Core Exit Thermocouple Readin	ıgs.		
I	a.	With RCS Pressure GREATER THAN 1600 psig:			
		% Clad Damage <sub>CET</sub> = $\frac{\text{Number of CETs} > 1400 ^{\circ}\text{F}}{\text{Total Number of Operable CETs}}$			
	b.	With RCS Pressure LESS THAN 1600 psig:		ļ	
		% Clad Damage <sub>CET</sub> = $\frac{\text{Number of CETs} > 1200 \text{ °F}}{\text{Total Number of Operable CETs}}$	s		

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5.2.3	Confirm Reasonableness of Clad Damage Estimates.
	<ul> <li>a. Compare actual values to expected response.</li> <li>Containment Hydrogen Concentration LESS THAN 0.2%</li> </ul>
	<ul> <li>RVLIS LESS THAN 64% AND GREATER THAN 50%</li> </ul>
	<ul> <li>Hot Leg RTD GREATER THAN T<sub>sat</sub> AND LESS THAN 650 °F</li> </ul>
	• Source Range Monitor GREATER THAN 3000 cps
	<ul> <li>Deviation in clad damage estimates from containment high range radiation monitor and core exit thermocouples LESS THAN 50% using</li> </ul>
	ABSOLUTE VALUE <u> %Clad Damage<sub>CRM</sub> - % Clad Damage<sub>CET</sub> </u> % Clad Damage <sub>CRM</sub>
	b. If the expected response is not obtained, determine if the deviation can be explained from the accident progression:
	• injection of water into the RCS
	• bleed paths from the RCS
	• direct radiation to the containment high range radiation monitors
	• from conservatisms in the predictive model
	- fuel burnup
	- fission product retention in the RCS
	- fission product removal from the containment.
5.2.4	Record % Clad Damage <sub>CRM</sub> and % Clad Damage <sub>CET</sub> on Data Sheet 1.
5.2.5	Go to Step 5.4.

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5.3	EST	TIMATION OF FUEL OVER-TEMPERATURE DAMAGE		
5.3.1	Esti Mor	mate Fuel Over-temperature Damage Based on Containment High Ra nitor Reading.	nge Radiation	
	a.	Find containment radiation level for 100% core over-temperature da from Figure 4.	mage	
	b.	Obtain current containment radiation level.		
	c.	Estimate over-temperature damage using:		
% C	ore Dai	mage <sub>CRM</sub> = <u>Current Containment Radiation Level</u> Predicted Containment Radiation Level at 100% Overtemp I	Damage.	
5.3.2	Esti	mate Fuel Over-temperature Damage Based on Core Exit Thermocouple	e Readings.	
	a.	Obtain current core exit thermocouple temperature readings.		
	b.	Estimate over-temperature damage using:		
		% Core Damage $_{CET}$ = <u>Number of CETs &gt; 2000 °F</u> Total Number of Operable CETs	S	
5.3.3	Con	firm Reasonableness of Core Over-temperature Damage Estimates		
	a.	Compare actual values to expected response.		
		RVLIS LESS THAN 50%		
		• Hot Leg RTD GREATER THAN 650 °F		
		• Source Range Monitor GREATER THAN 3000 cps		
		• Deviation in fuel over-temperature damage estimates from contarange radiation monitor and core exit thermocouples LESS THA	ainment high AN 50% using	
		ABSOLUTE VALUE <u>%Core Damage<sub>CRM</sub> - % Core Damage<sub>CET</sub></u> % Core Damage <sub>CRM</sub>		

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	Containment hydrogen concentration
	- Obtain containment hydrogen concentration at 100% core over- temperature from Table 2 and Figure 5.
	- Obtain current containment hydrogen concentration
	- Estimate over-temperature damage using:
	% Core Damage $_{H_2} = $ Current $H_2$ Concentration Predicted $H_2$ Concentration at 100% Overtemp Damage
	- Deviation in fuel over-temperature damage estimates from containment hydrogen concentration and core exit thermocouples LESS THAN 25% using:
	ABSOLUTE VALUE <u>%Core Damage<sub>H2</sub> - % Core Damage<sub>CET</sub></u> % Core Damage <sub>H2</sub>
	- Deviation in fuel over-temperature damage estimates from containment high range radiation monitor and containment hydrogen concentration LESS THAN 25% using:
	ABSOLUTE VALUE <u>%Core Damage<sub>CRM</sub> - % Core Damage<sub>H2</sub></u> % Core Damage <sub>H2</sub>
	b. If expected response is not obtained, determine if the deviation can be explained from the accident progression:
	• Injection of water into the RCS
	• bleed paths from the RCS
	• direct Radiation to the containment high range radiation monitor
	• hydrogen burn in containment or operation of hydrogen recombiners
	• conservatisms in the predictive model
	- fuel burnup
	- fission product retention in the RCS
	- fission product removal from containment.

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5.3.4	Record % Core Damage <sub>CRM</sub> , % Core Damage <sub>CET</sub> , and % Core Damage <sub>H<sub>2</sub></sub> on Data Sheet 1.				
5.4	FINAL ASSESSMENT				
5.4.1	Perform the final core damage assessment by evaluating the data recorded on Data Sheet 1, "Core Damage Assessment Summary". Record the final assessment on the appropriate line on Data Sheet 1.				
	NOTE				
	The final assessment is a broad based examination of all data collected. Because of overlapping values of release activities and potential simultaneous conditions of clad damage, overtemperature, and core melt, Considerable Judgment is required in the final assessment.				
5.4.2	On completion of the final assessment, forward the completed Data Sheet 1to the Emergency Director or the TSC Manager.				
5.4.3	Continue to monitor plant status as described in step 5.1.				
6.0	ACCEPTANCE CRITERIA				
	NONE				
7.0	REFERENCE				
7.1	Westinghouse Owners Group Post-Accident Core Damage Assessment Guidance WCAP – 14696-A, Revision 1, November 1999.				
7.2	PROCEDURES				
7.2.1	91504-C, "Core Inventory Determinations Using Reactor Power History"				
7.2.2	91503-C, "Control Room Instrumentation Output For Assessment Of Core Damage"				
	END OF PROCEDURE TEXT				

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Approved By J. T. Gasser	Vogtle Electric Gene	Procedure Number Rev 91502-C 12	
Date Approved 04/05/2002	CORE DAMAGE	Page Number 9 of 16	
	TABLE	1	
	PRELIMINARY CORE DA	MAGE ASESSMENT	
	Direct States	Fuel Rod	
	Core Exit Thermocouples	FISSION FROUNCEStatu	
	LESS THAN 711 °F	No Core Damage;	
	AND		
	RE-005/006	Return to Step 5.1.5	
	LESS THAN Figure 1 Rad/hr	·	
	Core Exit Thermocouples LESS THAN 2000 °F AND	Possible Fuel Rod Clad Damage;	
	LESS THAN Figure 2 Rad/hr	Return to Step 5.1.5	
	Core Exit Thermocouples		
	GREATER THAN 2000 °F	Possible Fuel	
	OR	Overtemperature Damage	;
	RE-005/006		
	GREATER THAN Figure 2 Rad/hr	Return to Step 5.1.5	

Approved By		Vogt	tle Electric Generating Plant	Procedure Number         Rev           91502-C         12
Date Approved		COR	E DAMAGE ASSESSMENT	Page Number 10 of 16
04/03/2002			TABLE 2	
		FUI	EL OVER-TEMPERATURE ESTIMATE	
		(Ba	sed on containment hydrogen concentration)	
DOC Deer	an a	lator Intention into BCS	s 100% Fuel Over-temperature Predicted Containment Hydrogen	Concentration
LESS TH	IAN	Yes	50% Reaction-Low RCS Press line on Figure 5	
1050 ps	sig	No	25% Reaction-Low RCS Press line on Figure 5	
	-8	÷.		
GREATER	THAN	Yes	75% Reaction-High RCS Pressline on Figure 5	
1050 ps	sig	No	50% Reaction-High RCS Press line on Figure 5	

.



# FIGURE 1



# FIGURE 2



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# **FIGURE 4**



# FIGURE 5

Approved By J. T. Gasser	Vogtle Electric Generating Plant	Procedure Number Rev 91502-C 12
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	DATA SHEET 1 CORE DAMAGE ASSESSMENT SUMMARY	Sheet 1 of 1
A. PRELIMI	NARY CORE DAMAGE ASSESSMENT	
<ul> <li>From Step 5.1</li> <li>1. RVLIS Ind No Core U Uncovery 1</li> <li>2. Maximum</li> <li>3. Maximum Time of Re</li> <li>4. Minimum</li> <li>5. Containme</li> <li>6. Preliminar</li> </ul>	lication: ncovery Indicated Core Exit Thermocouple Reading: Containment High Range Monitor Reading: eading: RCS Pressure: ent Spray: Operated Not Operated y Core Damage Assessment Results:	-
0. Tremma		-
DATE:	TIME: PERFORMED BY:	
	REVIEWED BY:	<b>-</b> ,
<ul> <li>B. DETAILE</li> <li>From Step 5.2</li> <li>1. % Clad Da</li> <li>2. % Clad Da</li> </ul>	CD CORE DAMAGE ASSESSMENT 2.4 mage based on Containment High Range Radiation Monitor mage based on Core Exit Thermocouples	- ·
	OR	
From Step 5.3 3. % Core Da 4. % Core Da 5. % Core Da	3.4         Image based on Containment High Range Radiation Monitors         Image based on Core Exit Thermocouples         Image Based on Containment Hydrogen Concentration	- - -
C. FINAL C	ORE DAMAGE ASSESSMENT (From Step 5.4)	
DATE:	TIME: PERFORMED BY:	-
	REVIEWED BY:	-

-

Approved By J. T. Gasser	Vogtle Electric Generating PlantProcedure NumberRev91107-C10	
Date Approved 04/05/2002	DUTIES OF THE ENGINEERING SUPERVISOR (TSC)         Page Number           1 of 5	
REFERENCE USE PROCEDURE     PRB REVIEW REQUIRED		
1.0	PURPOSE	
	The purpose of this procedure is to provide instructions to the Engineering Supervisor for technical evaluations and support.	
2.0	RESPONSIBILITIES	
2.1	ENGINEERING SUPERVISOR	
2.1.1	The Engineering Supervisor shall have the following responsibilities:	
2.1.1.1	Provide technical support to the TSC Manager.	
2.1.1.2	Analyze plant problems.	
2.1.1.3	Advise the Emergency Director (ED) on technical matters.	
2.1.1.4	Interface with appropriate Federal response personnel stationed in the TSC.	
2.1.1.5	Assign a plant knowledgeable person to communicate with the NRC on the Emergency Notification System (ENS) and report upgrades in emergency classification and/or significant changes in plant conditions.	
2.1.1.6	Ensure that core damage assessment is performed.	
2.1.1.7	Trend key plant parameters using the Integrated Plant Computer (IPC) or a manual method.	
2.1.1.8	Supervise Engineering Staff assigned to TSC.	
2.1.1.9	Fill the position of Evaluator, if Severe Accident Management Guidelines (SAMGs) are implemented.	
3.0	PREREQUISITES	
	An Alert, Site Area Emergency, or General Emergency has been declared, or the (ED) has ordered activation of the TSC.	
4.0	PRECAUTIONS	
4.1	This procedure shall not take priority over measures required to maintain or restore the plant to a safe operating condition.	
4.2	This procedure does not replace any plant operating procedure.	

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| Approved By<br>J. T. Gasser  | Vogtle Electric Generating Plant                                                                                                                    | Procedure Number<br>91107-C    | Rev<br>10 |  |
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| Date Approved,<br>04/05/2002 | DUTIES OF THE ENGINEERING SUPERVISOR (TSC)                                                                                                          | Page Number 2 of               | 5         |  |
| 5.0                          | PROCEDURE                                                                                                                                           |                                |           |  |
| 5.1                          | TSC ACTIVATION                                                                                                                                      |                                |           |  |
|                              | For an Alert Emergency, Site Area Emergency, or General Emergency, the Supervisor shall:                                                            | Engineering                    |           |  |
| 5.1.1                        | Report to the TSC.                                                                                                                                  |                                |           |  |
| 5.1.2                        | Obtain and initiate the "Engineering Supervisor Checklist".                                                                                         |                                |           |  |
| 5.2                          | STAFF SUPERVISION                                                                                                                                   |                                |           |  |
|                              | The Engineering Supervisor shall supervise the activities of the following TS                                                                       | SC staff:                      |           |  |
| 5.2.1                        | Reactor Engineer (analyze core physics and heat transfer parameters, perform core damage assessment).                                               |                                |           |  |
| 5.2.2                        | Mechanical Engineer (analyze mechanical systems).                                                                                                   |                                |           |  |
| 5.2.3                        | Electrical Engineer (analyze electrical systems).                                                                                                   |                                |           |  |
| 5.3                          | RECOVERY                                                                                                                                            |                                |           |  |
|                              | The Engineering Supervisor shall provide support for recovery and re-entry requested by the TSC Manager or (ED).                                    | operations as                  |           |  |
| 6.0                          | REFERENCES                                                                                                                                          |                                |           |  |
| 6.1                          | VEGP EMERGENCY PLAN                                                                                                                                 |                                |           |  |
| 6.2                          | Procedure 91101-C, "Emergency Response Organization"                                                                                                |                                |           |  |
| 6.3                          | Procedure 60613, "Control And Use Of Severe Accident Managemer (SAMG)"                                                                              | nt Guidelines                  | •         |  |
| 6.4                          | NUREG-0654, FEMA-REP-1, Rev. 1, "Criteria for Preparation and E<br>Radiological Emergency Response Plans and Preparedness in Support of N<br>Plants | Evaluation of<br>Juclear Power |           |  |
|                              | END OF PROCEDURE TEXT                                                                                                                               |                                |           |  |
| 1                            |                                                                                                                                                     |                                |           |  |

| Approved By<br>J. T. Gasser | Vogtle Electric Generating Plant 2 Procedure Number Rev<br>91107-C 10                                                                                                                                                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date Approved<br>04/05/2002 | DUTIES OF THE ENGINEERING SUPERVISOR (TSC)         Page Number           3 of 5                                                                                                                                                                                                                                                                                |
|                             | ENGINEERING SUPERVISOR CHECKLIST Sheet 1 of 3                                                                                                                                                                                                                                                                                                                  |
| <b>DESIGNEE</b>             | <u>S:</u>                                                                                                                                                                                                                                                                                                                                                      |
|                             | Manager Engineering Support<br>Engineering Supervisor(s)                                                                                                                                                                                                                                                                                                       |
| <u>RESPONSI</u>             | BILITIES:                                                                                                                                                                                                                                                                                                                                                      |
|                             | Provide technical support to the TSC Manager. Analyze plant problems. Recommend corrective actions. Advise the Emergency Director on technical matters. Interface with Federal response personnel stationed in the TSC. Ensure that core damage assessment is performed.                                                                                       |
| INITIAL A                   | CTIONS                                                                                                                                                                                                                                                                                                                                                         |
| 1.                          | Report to the TSC.                                                                                                                                                                                                                                                                                                                                             |
| 2.                          | Sign-in on the Emergency Response Facility Roster.                                                                                                                                                                                                                                                                                                             |
| 3.                          | Obtain work packets and emergency identification badge.                                                                                                                                                                                                                                                                                                        |
| 4.                          | Ensure that the following positions are staffed:                                                                                                                                                                                                                                                                                                               |
|                             | <ul> <li>a. Electrical Engineer</li> <li>b. Mechanical Engineer</li> <li>c. Reactor Engineer</li> </ul>                                                                                                                                                                                                                                                        |
| 5.                          | Receive briefing from TSC Manager.                                                                                                                                                                                                                                                                                                                             |
| 6.*                         | Assume responsibility from the on-shift operations staff for NRC notifications by assigning an Engineer to maintain communications on the ENS when directed by the TSC Manager. (These communications should include any further degradation in the plant conditions, any change from one emergency class to another, or for the termination of an emergency.) |
| 7.                          | Advise TSC Manager when ready for operation and begin maintaining appropriate logs and checklists.                                                                                                                                                                                                                                                             |
| *Continuing                 | Activity                                                                                                                                                                                                                                                                                                                                                       |

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| Approved By<br>J. T. Gasser | Vogtle Electric Generating Plant                                                                                                                                                                     | rocedure Number<br>1107-C    | Rev<br>10 |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|
| Date Approved 04/05/2002    | <b>DUTIES OF THE ENGINEERING SUPERVISOR (TSC)</b>                                                                                                                                                    | age Number 4 of              | 5         |
|                             | ENGINEERING SUPERVISOR CHECKLIST                                                                                                                                                                     | Sheet 2                      | of 3      |
| SUBSEQUE                    | ENT ACTIONS                                                                                                                                                                                          |                              |           |
| 1.*                         | Maintain a log.                                                                                                                                                                                      |                              |           |
| 2.*                         | Determine need for any additional engineering and technical support per<br>inform TSC Manager, TSC Support Coordinator or Corporate Emergenc<br>Center (CEOC) as appropriate.                        | rsonnel, and<br>by Operating |           |
| 3.*                         | Assist TSC Manager, as requested, to determine corrective actions.                                                                                                                                   |                              |           |
| 4.*                         | Assist TSC Manager, as requested, during reclassification activities.                                                                                                                                |                              |           |
| 5.*                         | Provide technical support to the TSC Manager and to the Control communicating through the Operations Supervisor.                                                                                     | l Room by                    |           |
| 6.*                         | Direct the engineering staff to perform analyses of plant problems and<br>corrective actions. Estimate time of fission product barrier failure whe<br>anticipated from analyses of plant parameters. | d determine<br>en failure is |           |
| 7.*                         | Provide recommendations for plant modifications to mitigate the effects of the                                                                                                                       | e accident.                  |           |
| 8.*                         | Determine the need for offsite technical assistance and coordinate with the TS TSC Support Coordinator or CEOC as appropriate.                                                                       | SC Manager,                  |           |
| 9.*                         | Supervise activities of vendors reporting to the TSC or supervise via com links to vendor's home offices.                                                                                            | nmunications                 |           |
| 10.*                        | Provide liaison with the NRC staff in the TSC.                                                                                                                                                       |                              |           |
|                             | NOTE                                                                                                                                                                                                 |                              |           |
|                             | IPC's that are not in the main TSC (i.e. ERDS and Dose Assessment may be used if necessary.                                                                                                          | Areas)                       |           |
| 11.*                        | Trend key plant parameters using the IPC or a manual method.                                                                                                                                         |                              |           |
| 12.                         | Perform core damage assessment.                                                                                                                                                                      |                              |           |
| *Continuing                 | g Activity                                                                                                                                                                                           |                              |           |

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| Approved By<br>J. T. Gasser |                | Vogtle Electric Generating Plant                                                            | Procedure Number<br>91107-C | Rev<br>10 |
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| Date Approved 04/05/2002    |                | <b>DUTIES OF THE ENGINEERING SUPERVISOR (TSC)</b>                                           | Page Number<br>5 of 5       | 5         |
|                             |                | ENGINEERING SUPERVISOR CHECKLIST                                                            | Sheet 3 o                   | of 3      |
| <u>SUBSEQUE</u>             | ENT A          | CTIONS (CONT'D)                                                                             |                             |           |
| 13.                         | Perfor         | rm the evaluations within the context of Severe Accident Management                         | t Guidelines.               |           |
|                             | a.             | Diagnose plant conditions and evaluate if a specific guideline entry                        | is required.                |           |
|                             | b.             | Evaluate the positive and negative impacts of strategies presented in                       | the guidelines.             |           |
|                             | c.             | Respond to severe challenges.                                                               |                             |           |
|                             | d.             | Interpret the response of plant parameters following strategy implem                        | nentation.                  |           |
|                             | e.             | Assess the effectiveness of implemented strategies and determine with mitigation is needed. | hether additiona            | al        |
| 14.                         | Perfor<br>"Eme | rm relief and complete "General Relief Checklist" in Proced rgency Response Organization".  | ure 91101-C,                |           |
| 15.                         | After          | the emergency condition has been declared terminated, proceed as fol                        | lows:                       |           |
|                             | a.             | Participate in a briefing with the TSC Manager and assist in transition.                    | on to Recovery              |           |
|                             | b.             | Collect logs and checklist from your staff and turn over to the Coordinator.                | TSC Support                 |           |
|                             | c.             | Standby for assignment to the Recovery Organization, return to station, or dismissal.       | normal work                 |           |
|                             |                |                                                                                             |                             |           |

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| Approved By                              | Vogtle Electric Generating Plant         A         Procedure Number         Rev<br>91108-C         8                                                     |  |  |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Date Approved<br>04/05/2002              | DUTIES OF THE MAINTENANCE SUPERVISOR (TSC) Page Number 1 of                                                                                              |  |  |
| REFERENCE USE PROCEDURE PRB REVIEW REQUI |                                                                                                                                                          |  |  |
| 1.0                                      | PURPOSE                                                                                                                                                  |  |  |
|                                          | The purpose of this procedure is to provide instructions to the Maintenance Supervisor for planning and coordinating emergency maintenance and repairs.  |  |  |
| 2.0                                      | RESPONSIBILITIES                                                                                                                                         |  |  |
| 2.1                                      | MAINTENANCE SUPERVISOR                                                                                                                                   |  |  |
| 2.1.1                                    | The Maintenance Supervisor shall have the following responsibilities:                                                                                    |  |  |
| 2.1.1.1                                  | Planning and coordination of emergency repair, damage control, and plant modifications.                                                                  |  |  |
| 2.1.1.2                                  | Advise the TSC Manager on the impact of proposed emergency activities.                                                                                   |  |  |
| 3.0                                      | PREREQUISITES                                                                                                                                            |  |  |
|                                          | An Alert, Site Area Emergency, or General Emergency has been declared or the Emergency Director (ED) has ordered activation of the TSC.                  |  |  |
| 4.0                                      | PRECAUTIONS                                                                                                                                              |  |  |
| 4.1                                      | This procedure shall not take priority over measures required to maintain or restore the plant to a safe operating condition.                            |  |  |
| 4.2                                      | This procedure does not replace any plant operating procedure.                                                                                           |  |  |
| 5.0                                      | PROCEDURE                                                                                                                                                |  |  |
| 5.1                                      | TSC ACTIVATION                                                                                                                                           |  |  |
| 5.1.1                                    | For an Alert, Site Area Emergency, or General Emergency, the Maintenance Supervisor shall report to the TSC and receive a briefing from the TSC Manager. |  |  |
| 5.1.2                                    | The Maintenance Supervisor shall obtain and initiate the "Maintenance Supervisor Checklist".                                                             |  |  |
| 5.2                                      | RECOVERY                                                                                                                                                 |  |  |
|                                          | The Maintenance Supervisor shall provide support for recovery and re-entry operations as requested by the TSC Manager or ED.                             |  |  |
|                                          |                                                                                                                                                          |  |  |

| Approved By<br>J. T. Gasser | Vogtle Electric Generating Plant                                                                                                                                       | Procedure Number<br>91108-C | Rev<br><b>8</b> |  |
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| Date Approved<br>04/05/2002 | <b>DUTIES OF THE MAINTENANCE SUPERVISOR (TSC)</b>                                                                                                                      | Page Number 2 of            | 4               |  |
| 6.0                         | REFERENCES                                                                                                                                                             |                             |                 |  |
| 6.1                         | VEGP EMERGENCY PLAN                                                                                                                                                    |                             |                 |  |
| 6.2                         | Procedure 91101-C, "Emergency Response Organization"                                                                                                                   |                             |                 |  |
| 6.3                         | NUREG-0654, FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" |                             |                 |  |

# END OF PROCEDURE TEXT

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| Approved By     | Vootle Electric Generating Plant                                                                                                                                                                                        | v |
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| J. T. Gasser    | DUTIES OF THE MAINTENIANCE SUPERVISOD (TSC) Page Number                                                                                                                                                                 |   |
| 04/05/2002      | DUTIES OF THE MAINTENANCE SUPERVISOR (ISC) 3 of 4                                                                                                                                                                       |   |
|                 | MAINTENANCE SUPERVISOR CHECKLIST Sheet 1 of 2                                                                                                                                                                           | 2 |
| <u>DESIGNEE</u> | <ul> <li>S: - Maintenance Assistant Performance Team Manager</li> <li>- Maintenance Team Leaders/Assistant Team Leaders</li> </ul>                                                                                      |   |
| <u>RESPONSI</u> | BILITY:                                                                                                                                                                                                                 |   |
|                 | Manage the planning and coordination of emergency repair, damage control and plant modifications. Advise the TSC Manager on the impact of proposed emergency activities. Direct maintenance operations through the OSC. |   |
| INITIAL A       | CTIONS                                                                                                                                                                                                                  |   |
| 1.              | Report to the TSC.                                                                                                                                                                                                      |   |
| 2.              | Sign in on the Emergency Response Facility Roster.                                                                                                                                                                      |   |
| 3.              | Obtain work packets and emergency identification badge.                                                                                                                                                                 |   |
| 4.              | Receive briefing from TSC Manager.                                                                                                                                                                                      |   |
| <b>SUBSEQUE</b> | NT ACTIONS                                                                                                                                                                                                              |   |
| 1.*             | Maintain communications log.                                                                                                                                                                                            |   |
| 2.*             | In coordination with the Engineering Supervisor, assess operation of plant systems including mechanical, electrical, and I&C equipment.                                                                                 |   |
| 3.*             | Determine if emergency repair, damage control or plant modification operations are crucial to needs of Emergency Response Organization.                                                                                 |   |
| 4.              | Provide information to OSC Manager.                                                                                                                                                                                     |   |
| 5.*             | Advise TSC Manager on matters dealing with repair, maintenance and deployment of Repair and Modification Teams.                                                                                                         |   |
| 6.*             | Maintain Team Tracking Status Board.                                                                                                                                                                                    |   |
|                 |                                                                                                                                                                                                                         |   |
|                 |                                                                                                                                                                                                                         |   |

\*Continuing Activity

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| Approved By<br>J. T. Gasser |                                                                                                                                                                                                                                                                                                                                                                                                                   | Vogtle Electric Generating Plant                                                                          | Procedure Number<br>91108-C | Rev<br>8 |  |  |  |  |  |  |  |  |  |
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| Date Approved<br>04/05/2002 |                                                                                                                                                                                                                                                                                                                                                                                                                   | DUTIES OF THE MAINTENANCE SUPERVISOR (TSC)                                                                | Page Number<br>4 of         | 4        |  |  |  |  |  |  |  |  |  |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                   | MAINTENANCE SUPERVISOR CHECKLIST                                                                          | Sheet 2                     | of 2     |  |  |  |  |  |  |  |  |  |
| <u>SUBSEQUE</u>             | ENT .                                                                                                                                                                                                                                                                                                                                                                                                             | ACTIONS (CONT'D)                                                                                          |                             |          |  |  |  |  |  |  |  |  |  |
| 6.*                         | Con<br>prov                                                                                                                                                                                                                                                                                                                                                                                                       | Confer with TSC Manager, Engineering Supervisor and Health Physics Supervisor and provide information on: |                             |          |  |  |  |  |  |  |  |  |  |
|                             | a.                                                                                                                                                                                                                                                                                                                                                                                                                | a. Work to be performed.                                                                                  |                             |          |  |  |  |  |  |  |  |  |  |
|                             | b.                                                                                                                                                                                                                                                                                                                                                                                                                | Number of personnel required.                                                                             |                             |          |  |  |  |  |  |  |  |  |  |
|                             | c.                                                                                                                                                                                                                                                                                                                                                                                                                | Tools, spare parts, and equipment needed.                                                                 |                             |          |  |  |  |  |  |  |  |  |  |
|                             | d.                                                                                                                                                                                                                                                                                                                                                                                                                | Relaxation of normal work order procedures, if required.                                                  |                             |          |  |  |  |  |  |  |  |  |  |
| 7.*                         | Req<br>neco                                                                                                                                                                                                                                                                                                                                                                                                       | uest the OSC Manager to assemble and dispatch Repair and Modifica essary.                                 | tion Teams, as              | 3        |  |  |  |  |  |  |  |  |  |
| 8.*                         | Determine if contaminated areas and/or equipment are crucial to needs of Emergency<br>Response Organization and inform TSC Manager to arrange decontamination or other<br>acceptable alternatives.                                                                                                                                                                                                                |                                                                                                           |                             |          |  |  |  |  |  |  |  |  |  |
| 9.*                         | Determine need for additional personnel and inform TSC Support Coordinator or TSC Manager.                                                                                                                                                                                                                                                                                                                        |                                                                                                           |                             |          |  |  |  |  |  |  |  |  |  |
| 10.                         | Upon notification from the TSC Manager that a post-accident grab sample is being collected for shipment for offsite analysis, make arrangements for loading the sample into the Pooled Inventory Management System (PIMS) transport cask. Make arrangements to obtain the PIMS cask via the warehouse supervisor and assist in loading the cask when it arrives from the PIMS warehouse (located in Memphis, TN). |                                                                                                           |                             |          |  |  |  |  |  |  |  |  |  |
| 11.                         | Per<br>"En                                                                                                                                                                                                                                                                                                                                                                                                        | form relief and complete "General Relief Checklist" in Proceeding Response Organization".                 | lure 91101-C                | ,        |  |  |  |  |  |  |  |  |  |
| 12.                         | Aft                                                                                                                                                                                                                                                                                                                                                                                                               | er the emergency condition has been declared terminated, proceed as fol                                   | llows:                      |          |  |  |  |  |  |  |  |  |  |
|                             | a.                                                                                                                                                                                                                                                                                                                                                                                                                | Participate in a briefing with the TSC Manager and assist in transiti Organization.                       | on to Recovery              | У        |  |  |  |  |  |  |  |  |  |
|                             | b.                                                                                                                                                                                                                                                                                                                                                                                                                | Collect logs and checklists from your staff and turn over to the TSC                                      | C Manager.                  |          |  |  |  |  |  |  |  |  |  |
|                             | c.                                                                                                                                                                                                                                                                                                                                                                                                                | Stand by for assignment to the Recovery Organization, return to station, or dismissal.                    | o normal work               | ۲.       |  |  |  |  |  |  |  |  |  |
| *Continuing                 | , Acti                                                                                                                                                                                                                                                                                                                                                                                                            | vity                                                                                                      |                             |          |  |  |  |  |  |  |  |  |  |

| Approved By                   | Voortle Electric Generating Plant A 91111-C 9                                                                                           |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| J. T. Gasser<br>Date Approved | DUTIES OF THE CHEMISTRY SUPERVISOR (TSC)         Page Number           1 of 5                                                           |
| 04/05/2002<br>REFERENC        | CE USE PROCEDURE PRB REVIEW REQUIRED                                                                                                    |
| 1.0                           | PURPOSE                                                                                                                                 |
|                               | The purpose of this procedure is to provide instructions to the Chemistry Supervisor (TSC) during a radiological emergency.             |
| 2.0                           | RESPONSIBILITIES                                                                                                                        |
| 2.1                           | CHEMISTRY SUPERVISOR (TSC)                                                                                                              |
| 2.1.1                         | The Chemistry Supervisor (TSC) shall have the following responsibilities:                                                               |
| 2.1.1.1                       | Direct and evaluate in-plant chemistry and analyses.                                                                                    |
| 2.1.1.2                       | Direct and evaluate post-accident sampling.                                                                                             |
| 2.1.1.3                       | Ensure that the Emergency Response Data System (ERDS) computer is activated for the affected unit.                                      |
| 3.0                           | PREREQUISITES                                                                                                                           |
|                               | An Alert, Site Area Emergency, or General Emergency has been declared or the Emergency Director (ED) has ordered activation of the TSC. |
| 4.0                           | PRECAUTIONS                                                                                                                             |
| 4.1                           | This procedure shall not take priority over measures required to maintain or restore the plant to a safe operating condition.           |
| 4.2                           | This procedure does not replace any plant operating procedures.                                                                         |
| 5.0                           | PROCEDURE                                                                                                                               |
| 5.1                           | TSC ACTIVATION                                                                                                                          |
|                               | For an Alert, Site Area Emergency, or General Emergency, the Chemistry Supervisor shall:                                                |
| 5.1.1                         | Report to the TSC.                                                                                                                      |
| 5.1.2                         | Obtain and initiate the "Chemistry Supervisor (TSC) Checklist".                                                                         |
|                               |                                                                                                                                         |

| Approved By<br>J. T. Gasser | Vogtle Electric Generating Plant                                                                                                           | Procedure Number Rev<br>91111-C 9 |  |  |  |  |  |  |  |  |  |  |
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| Date Approved 04/05/2002    | <b>DUTIES OF THE CHEMISTRY SUPERVISOR (TSC)</b>                                                                                            | Page Number 2 of 5                |  |  |  |  |  |  |  |  |  |  |
| 5.2                         | RECOVERY                                                                                                                                   |                                   |  |  |  |  |  |  |  |  |  |  |
|                             | The Chemistry Supervisor (TSC) shall provide support for recovery operations as requested by the TSC Manager or the ED.                    | and re-entry                      |  |  |  |  |  |  |  |  |  |  |
| 6.0                         | REFERENCES                                                                                                                                 |                                   |  |  |  |  |  |  |  |  |  |  |
| 6.1                         | VEGP EMERGENCY PLAN                                                                                                                        |                                   |  |  |  |  |  |  |  |  |  |  |
| 6.2                         | Procedure 91101-C, "Emergency Response Organization"                                                                                       |                                   |  |  |  |  |  |  |  |  |  |  |
| 6.3                         | NUREG-0654, FEMA-REP-1, Rev. 1, "Criteria for Preparation and Radiological Emergency Response Plans and Preparedness in Support of Plants" | Evaluation of<br>Nuclear Power    |  |  |  |  |  |  |  |  |  |  |
|                             | END OF PROCEDURE TEXT                                                                                                                      |                                   |  |  |  |  |  |  |  |  |  |  |
|                             |                                                                                                                                            |                                   |  |  |  |  |  |  |  |  |  |  |
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| Approved By<br>J. T. Gasser | Vogtle Electric Generating Plant         Procedure Number         Rev           91111-C         9                                                                                                                      |
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| Date Approved<br>04/05/2002 | DUTIES OF THE CHEMISTRY SUPERVISOR (TSC)       Page Number         3 of 5                                                                                                                                              |
|                             | CHEMISTRY SUPERVISOR (TSC) CHECKLIST Sheet 1 of 2                                                                                                                                                                      |
| DESIGNEE                    | <ul> <li>S: - Chemistry Superintendent</li> <li>- Chemistry Supervisor(s)</li> <li>- Plant Chemist</li> <li>- Chemistry Foremen</li> <li>- Chemistry Senior Nuclear Specialist(s)</li> </ul>                           |
| <u>RESPONSII</u>            | BILITY:                                                                                                                                                                                                                |
|                             | Evaluates in-plant chemistry conditions and keeps TSC Manager informed of status of plant.                                                                                                                             |
| INITIAL AC                  | CTIONS                                                                                                                                                                                                                 |
| 1.                          | Report to the TSC.                                                                                                                                                                                                     |
| 2.                          | Sign in on Personnel Roster.                                                                                                                                                                                           |
| 3.                          | Obtain work packets and emergency identification badge.                                                                                                                                                                |
| 4.                          | Activate the ERDS in accordance with the posted instructions if not already activated by the Chemistry In-plant Sampler. ERDS is required to be activated within one hour of an Alert or higher emergency declaration. |
| 5.                          | Ensure that the TSC Manager informs the Emergency Director that ERDS has been activated if not already done by the Chemistry In-plant Sampler.                                                                         |
| 6.                          | Obtain briefings from the TSC Manager and Shift Chemistry In-plant Sampler/Chem. Tech on status of plant.                                                                                                              |
| 7.                          | Ensure that the following position is staffed:                                                                                                                                                                         |
|                             | a. Chemistry Technician/In-plant Sampler                                                                                                                                                                               |
| 8.                          | Advise TSC Manager when ready for operation and begin maintaining appropriate logs and checklists.                                                                                                                     |
| SUBSEQUI                    | ENT ACTIONS                                                                                                                                                                                                            |
| 1.*                         | Maintain a log.                                                                                                                                                                                                        |
| 2.*                         | Direct in-plant chemistry sampling and analysis.                                                                                                                                                                       |
| *Continuing                 | Activity                                                                                                                                                                                                               |

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| Approved By<br>J. T. Gasser |                                                                                                                                                                                                                                             | Vogtle Electric Generating Plant                                                                                      | Procedure Number Rev<br>91111-C 9 |  |  |  |  |  |  |  |  |  |  |
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| Date Approved 04/05/2002    |                                                                                                                                                                                                                                             | <b>DUTIES OF THE CHEMISTRY SUPERVISOR (TSC)</b>                                                                       | Page Number<br>4 of 5             |  |  |  |  |  |  |  |  |  |  |
|                             |                                                                                                                                                                                                                                             | CHEMISTRY SUPERVISOR (TSC) CHECKLIST                                                                                  | Sheet 2 of 2                      |  |  |  |  |  |  |  |  |  |  |
| <b>SUBSEQUE</b>             | <u>NT 4</u>                                                                                                                                                                                                                                 | ACTIONS (Cont'd)                                                                                                      |                                   |  |  |  |  |  |  |  |  |  |  |
| 3.*                         | Eva                                                                                                                                                                                                                                         | luate in-plant chemistry sample data and report abnormal results to the T                                             | FSC Manager.                      |  |  |  |  |  |  |  |  |  |  |
| 4.                          | If no<br>anal                                                                                                                                                                                                                               | ecessary, dispatch chemistry technicians to take post-accident samples ysis.                                          | for laboratory                    |  |  |  |  |  |  |  |  |  |  |
| 5.                          | Determine release source term. Obtain a grab sample of released gas from the plant vent<br>or air ejector condenser as applicable if release is in progress. Determine the isotopic mix<br>of released gas.                                 |                                                                                                                       |                                   |  |  |  |  |  |  |  |  |  |  |
| 6.                          | Ass<br>tota                                                                                                                                                                                                                                 | ist the Emergency Notification System (ENS) communicator with rel lactivity calculations. Use Data Sheet 1 as needed. | ease rates and                    |  |  |  |  |  |  |  |  |  |  |
| 7.                          | In the event the analysis capabilities for post-accident samples are inoperative and a grab sample can not be analyzed on site, consult the TSC Manager to arrange for back-up analyses of samples at Framatome Technologies, Lynchburg VA. |                                                                                                                       |                                   |  |  |  |  |  |  |  |  |  |  |
| 8.                          | Direct Chemistry personnel to obtain a transport cask, collect the post-accident grab<br>sample and transport it to the loading area in accordance with plant Chemistry<br>Procedures.                                                      |                                                                                                                       |                                   |  |  |  |  |  |  |  |  |  |  |
| 9.                          | Peri<br>"En                                                                                                                                                                                                                                 | form relief and complete the General Relief Checklist in Proceed nergency Response Organization".                     | lure 91101-C,                     |  |  |  |  |  |  |  |  |  |  |
| 10.                         | Aft                                                                                                                                                                                                                                         | er the emergency has been declared terminated, proceed as follows:                                                    |                                   |  |  |  |  |  |  |  |  |  |  |
|                             | a.                                                                                                                                                                                                                                          | Participate in a briefing with the TSC Manager and assist in transition.                                              | on to Recovery                    |  |  |  |  |  |  |  |  |  |  |
|                             | b.                                                                                                                                                                                                                                          | Collect logs and checklists from your staff and turn over to the Coordinator.                                         | : TSC Support                     |  |  |  |  |  |  |  |  |  |  |
|                             | c.                                                                                                                                                                                                                                          | Stand by for assignment to the Recovery Organization, return to station, or dismissal.                                | o normal work                     |  |  |  |  |  |  |  |  |  |  |
| *Continuing                 | , Acti                                                                                                                                                                                                                                      | vity                                                                                                                  |                                   |  |  |  |  |  |  |  |  |  |  |
|                             |                                                                                                                                                                                                                                             |                                                                                                                       |                                   |  |  |  |  |  |  |  |  |  |  |

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| Approved By<br>J. T. Gasser | Vogtle Electric Generating Plant                                                                                                                                                                                                                      | Procedure Number<br>91111-C | Rev<br>9 |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------|
| Date Approved<br>04/05/2002 | <b>DUTIES OF THE CHEMISTRY SUPERVISOR (TSC)</b>                                                                                                                                                                                                       | Page Number 5 of :          | 5        |
| TOTAL AC                    | DATA SHEET 1<br>FIVITY CALCULATIONS FOR NRC EVENT NOTIFICATION WO                                                                                                                                                                                     | Sheet 1<br>RKSHEET          | of 1     |
| Use<br>of re<br>calcu       | the following formulas with the appropriate IPC radiation monitors for the deter<br>lease rates. The iodine channels look at build-up on the collection media, there<br>alation will over estimate the release rate for radioiodines.                 | mination<br>efore this      |          |
| a. <u>A</u> i               | rborne Release (RE-12442, RE-12444, RE-12839):                                                                                                                                                                                                        |                             |          |
|                             | $\mu Ci/cc X$ cfm X 4.72E-4 = Ci/sec                                                                                                                                                                                                                  |                             |          |
| b. <u>Li</u><br>ar<br>L     | quid Release (RE-018, RE-020, RE-021, or RE-0848): Liquid activity (excludinad dissolved noble gases) may be obtained from liquid effluent monitors or grabiquid tritium activity is obtained from grab samples. $\mu$ Ci/cc X gpm X 6.30E-5 = Ci/sec | ng tritium<br>samples.      |          |
| c. <u>Tc</u>                | tal Activity:                                                                                                                                                                                                                                         |                             |          |
|                             | (Ci/sec) X release duration (seconds) =Ci (to                                                                                                                                                                                                         | tal activity)               |          |
|                             |                                                                                                                                                                                                                                                       |                             |          |
|                             |                                                                                                                                                                                                                                                       |                             |          |
|                             |                                                                                                                                                                                                                                                       |                             |          |
|                             |                                                                                                                                                                                                                                                       |                             |          |
|                             |                                                                                                                                                                                                                                                       |                             |          |
|                             |                                                                                                                                                                                                                                                       |                             |          |
|                             |                                                                                                                                                                                                                                                       |                             |          |
|                             |                                                                                                                                                                                                                                                       |                             |          |
|                             |                                                                                                                                                                                                                                                       |                             |          |
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| Approved By<br>J. T. Gasser | Vogtle Electric Generating PlantProcedure NumberRev91503-C10                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |
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| Date Approved 04/05/2002    | CONTROL ROOM INSTRUMENTATION OUTPUT FOR ASSESSMENT OF CORE Page Number<br>DAMAGE 1 of 6                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |  |  |
| 1.0                         | PRB REVIEW REQUIRED                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
|                             | This procedure provides instruction for collecting and recording information obtained from Control Room instrumentation needed in assessing the extent of core damage.                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |
| 2.0                         | PRECAUTIONS AND LIMITATIONS                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |
|                             | NONE                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |  |  |
| 3.0                         | PREREQUISITES                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |
|                             | An emergency condition has been declared and core damage is suspected.                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |
| 4.0                         | RESPONSIBILITIES                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |  |  |
| 4.1                         | ENGINEERING DEPARTMENT                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |
| 4.1.1                       | Engineering personnel assigned to the Technical Support Center (TSC) are responsible<br>for overall coordination of this procedure including the assignment of responsibilities to<br>other groups or individual as is required to complete the assessment.                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |
| 4.2                         | OPERATIONS DEPARTMENT                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |  |  |
| 4.2.1                       | The Operations Department shall execute this procedure if requested by TSC. The recorded results will be transmitted to the TSC Engineering personnel coordinating core damage assessment activities.                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |  |  |
| 5.0                         | MAIN BODY                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |  |  |
| 5.1                         | REACTOR VESSEL LEVEL INDICATION SYSTEM (RVLIS) READINGS AND RECORDING                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |  |  |
| 5.1.1                       | No RCP(s) Running                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |
| 5.1.1.1                     | Review the RVLIS indications to determine if the core was uncovered (< 64 % Full Range) at any time during the transient. If it is apparent that it was uncovered, estimate the length of time, in minutes, that it was uncovered and record on Data Sheet 1, "Control Room Instrumentation Data Record For Core Damage Assessment". If the core was never uncovered, record "0 min." on Data Sheet 1. |  |  |  |  |  |  |  |  |  |  |  |

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| Approved By   |                                                            | Procedure Number | Rev |
|---------------|------------------------------------------------------------|------------------|-----|
| J. T. Gasser  | vogtle Electric Generating Plant                           | 91503-С          | 10  |
| Date Approved | CONTROL ROOM INSTRUMENTATION OUTPUT FOR ASSESSMENT OF CORE | Page Number      |     |
| 04/05/2002    | DAMAGE                                                     | 2 of (           | 6   |

#### 5.1.2 RCP(s) Running:

5.1.2.1 Review the RVLIS indications to determine if the core was uncovered (see Dynamic Ranges below) at any time during the transient.

| Number of RCP's Running | RVLIS Dynamic Range |
|-------------------------|---------------------|
| 4                       | <44%                |
| 3                       | <30%                |
| 2                       | <20%                |
| 1                       | <13%                |

If it is apparent that it was uncovered, estimate the length of time, in minutes, that it was uncovered and record on Data Sheet 1, "Control Room Instrumentation Data Record For Core Damage Assessment". If the core was never uncovered, record "0 min." on Data Sheet 1.

#### 5.2 CORE EXIT THERMOCOUPLE TEMPERATURES

5.2.2 Record on the core map of Data Sheet 1, "Control Room Instrumentation Data Record For Core Damage Assessment", all temperatures that exceed 750 degrees Fahrenheit during the incident along with the corresponding thermocouple identification numbers. A core map is provided for additional use in display of the location of thermocouples indicating high temperatures.

#### 5.3 RADIATION MONITOR READINGS AND RECORDS

- 5.3.1 Obtain the maximum CET temperatures observed, maximum containment high range radiation monitor (RE-005/006) reading and time of reading, minimum RCS pressure, hot leg RTD temperature, RVLIS reading, and containment spray status.
- 5.3.2 Record the values obtained in the spaces provided on Data Sheet 1.

| Approved By<br>J. T. Gasser | Vogtle Electric Generating Plant                                                                                                                                                                                   | Procedure Number<br>91503-C | Rev<br>10 |  |  |  |  |  |  |  |  |  |  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|--|--|--|--|--|--|--|--|--|--|
| Date Approved 04/05/2002    | CONTROL ROOM INSTRUMENTATION OUTPUT FOR ASSESSMENT OF CORE<br>DAMAGE                                                                                                                                               | Page Number <b>3 of</b>     | 6         |  |  |  |  |  |  |  |  |  |  |
|                             |                                                                                                                                                                                                                    |                             |           |  |  |  |  |  |  |  |  |  |  |
| 5.4                         | POST-ACCIDENT RCS ADDITION VOLUME DETERMINATION                                                                                                                                                                    |                             |           |  |  |  |  |  |  |  |  |  |  |
| 5.4.1                       | Determine volume of all Reactor Coolant System (RCS) additions ma<br>accident and prior to the collection of RCS core damage assessment data as                                                                    | de during the follows:      |           |  |  |  |  |  |  |  |  |  |  |
|                             | a. From Control Room tank level indications for the refueling water storage tank (RWST) and boric acid tank prior to and following safety injection, estimate the volume of each addition, and convert to gallons. |                             |           |  |  |  |  |  |  |  |  |  |  |
|                             | b. If the accumulators discharge, add 26,900 gallons.                                                                                                                                                              |                             |           |  |  |  |  |  |  |  |  |  |  |
|                             | c. Record the estimated addition for each source on the appropriate line in Data Sheet 2, "Post-Accident RCS Addition Volume Determination".                                                                       |                             |           |  |  |  |  |  |  |  |  |  |  |
|                             | d. Record initial Tavg at commencement of transient.                                                                                                                                                               |                             |           |  |  |  |  |  |  |  |  |  |  |
| 5.5                         | Transmit the completed Data Sheets to the Engineering personnel coordinating core damage assessment activities.                                                                                                    |                             |           |  |  |  |  |  |  |  |  |  |  |
| 6.0                         | REFERENCES                                                                                                                                                                                                         |                             |           |  |  |  |  |  |  |  |  |  |  |
| 6.1                         | VEGP EMERGENCY PLAN                                                                                                                                                                                                |                             |           |  |  |  |  |  |  |  |  |  |  |
| 6.2                         | PROCEDURES                                                                                                                                                                                                         |                             |           |  |  |  |  |  |  |  |  |  |  |
| 6.2.1                       | 91502-C, "Core Damage Assessment"                                                                                                                                                                                  |                             |           |  |  |  |  |  |  |  |  |  |  |
| 6.2.2                       | 19200-C, "F-0 Critical Safety Function Status Tree"                                                                                                                                                                |                             |           |  |  |  |  |  |  |  |  |  |  |
| 6.3                         | Westinghouse Owners Group Core Damage Assessment Guidance WC Revision 1, November 1999.                                                                                                                            | CAP-14696-A,                |           |  |  |  |  |  |  |  |  |  |  |
| 6.4                         | Emergency Response Guide FR – S/C/H                                                                                                                                                                                |                             |           |  |  |  |  |  |  |  |  |  |  |
|                             | END OF PROCEDURE TEXT                                                                                                                                                                                              |                             |           |  |  |  |  |  |  |  |  |  |  |
|                             |                                                                                                                                                                                                                    |                             |           |  |  |  |  |  |  |  |  |  |  |
|                             |                                                                                                                                                                                                                    |                             |           |  |  |  |  |  |  |  |  |  |  |
|                             |                                                                                                                                                                                                                    |                             |           |  |  |  |  |  |  |  |  |  |  |

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| Approved By<br>J. T. Gasser                                                                                                                     |              | 1        | Vogt   | le E        | lecti         | ric (  | Gene           | rati       | ng P          | lant   |         |       |       |         | Proced 9150 | ure Number<br>3-C | Rev<br>10 |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|--------|-------------|---------------|--------|----------------|------------|---------------|--------|---------|-------|-------|---------|-------------|-------------------|-----------|
| Date Approved<br>04/05/2002                                                                                                                     | CONTE        | ROL R    | OOM I  | INSTI       | RUME          | NTA]   | FION (<br>DAMA | OUTP<br>GE | UT FO         | R ASS  | ESSM    | IENT  | OF C  | ORE     | Page N      | umber<br>4 of     | 6         |
| DATA SHEET 1                                                                                                                                    |              |          |        |             |               |        |                |            |               |        |         |       |       | Sheet 1 | of 2        |                   |           |
| UNIT 1 - CONTROL ROOM INSTRUMENTATION DATA RECORD FOR                                                                                           |              |          |        |             |               |        |                |            |               |        |         |       | R CDA | Ā       |             |                   |           |
| Date:                                                                                                                                           |              | Time     | e:     |             |               |        |                | Per        | form          | ed by  | v:      |       |       |         |             |                   |           |
| Length Of Time Core Uncovered (minutes)                                                                                                         |              |          |        |             |               |        |                |            |               |        |         |       |       |         |             |                   |           |
| Minimum RVLIS Readings (%)Containment High Range RadiatContainment BuildingRE-005/006 Output (mrem/hr)Atmosphere Hydrogen (%)*(R6203) / (R6204) |              |          |        |             |               |        |                |            |               | tion N | Ionitor | !     |       |         |             |                   |           |
| Containment Sp                                                                                                                                  | oray Op      | eratin   | lg (Ye | es/No       | )<br>m Doi    | nta    |                | Mi<br>Ho   | nimu<br>t Lea | m RC   | CS Pr   | essui | e     |         | <u></u>     |                   |           |
| <u>* - Denotes Int</u>                                                                                                                          | egrated      | riani    |        | ipute       | <u>а го</u> і | 1115   | N              | DRT        | ı Leg<br>Н    | IXI L  |         | -pora |       |         |             |                   |           |
| <b>0</b> °                                                                                                                                      |              |          |        |             |               |        |                |            |               |        |         |       |       |         |             |                   |           |
| 15 —                                                                                                                                            |              |          |        |             |               |        |                | T38        |               |        |         |       |       |         |             |                   |           |
| 14 —                                                                                                                                            |              |          | T30    |             | T9            |        | T37            |            | T17           |        | T45     |       | T24   |         | _           |                   |           |
| 13 —                                                                                                                                            |              |          |        |             |               |        |                |            |               |        |         |       |       |         |             |                   |           |
| 12 —                                                                                                                                            | >            |          | T5     |             | T33           |        | T12            |            | T41           |        | T20     |       | T48   |         |             |                   |           |
| 11 —                                                                                                                                            | -            |          |        |             |               |        |                |            |               |        |         |       |       |         |             |                   |           |
| 10                                                                                                                                              | <b>T</b> 2   |          | T29    |             | Т8            |        | T36            |            | T16           |        | T44     |       | T23   |         | Т50         |                   |           |
| 9 —                                                                                                                                             |              |          |        |             |               |        |                |            |               |        |         |       |       |         |             |                   |           |
| 8 —                                                                                                                                             | → T26        |          | T4     |             | T32           |        | T11            |            | T40           |        | T19     |       | T47   |         | T25         |                   |           |
| 7 —                                                                                                                                             |              |          |        |             |               |        |                |            |               |        |         |       |       |         |             |                   |           |
| 6 —                                                                                                                                             | - <b>T</b> 1 |          | T28    |             | T7            |        | T35            |            | T15           |        | T43     |       | T22   |         | T49         |                   |           |
| 5 —                                                                                                                                             | ╼┥           |          |        |             |               |        |                |            |               |        |         |       |       | a       |             |                   |           |
| 4                                                                                                                                               | <u></u> ↑►   | <u> </u> | T3     |             | T31           |        | T10            |            | T39           |        | T18     |       | T46   |         | ĮŢ          |                   |           |
| 3                                                                                                                                               |              | Ĺ        |        |             |               |        |                |            |               |        |         |       |       |         | ]           |                   |           |
| 2 —                                                                                                                                             |              | –∱►      | T27    |             | T6            |        | T34            | <b> </b>   | T14           |        | T42     |       | T21   |         |             |                   |           |
| 1                                                                                                                                               |              |          | -1     | <b>-T</b> - |               |        |                | T13        |               |        |         |       |       |         |             |                   |           |
|                                                                                                                                                 | <br>A        | <br>B    | <br>C  | <br>D       | T<br>E        | Т<br>F | †<br>G         | Т<br>Н     | Т<br>Ј        | Т<br>к | T<br>L  | <br>M | <br>N | <br>P   | <br>R       |                   |           |
|                                                                                                                                                 |              | Th       | ierma  | ocou        | ple T         | 'emp   | oerati         | ures       | >71           | l Deg  | grees   | F     |       |         |             |                   |           |
|                                                                                                                                                 |              |          |        |             |               | ſ      |                |            |               | · · ·  | -       |       |       |         |             |                   |           |
|                                                                                                                                                 |              |          |        |             |               |        |                |            |               |        |         |       |       |         |             |                   |           |

| Approved By<br>J. T. Gasser                                   |                            |                     | Vo              | gtle        | Ele                  | ctrie      | e Ge         | nera          | ting                    | ; Pla                     | nt                        | 2                    |              |                | Proc<br>91 | edure Number<br>503-C                 | Rev<br>10 |
|---------------------------------------------------------------|----------------------------|---------------------|-----------------|-------------|----------------------|------------|--------------|---------------|-------------------------|---------------------------|---------------------------|----------------------|--------------|----------------|------------|---------------------------------------|-----------|
| Date Approved 04/05/2002                                      | CON                        | TROL                | ROO             | M IN        | STRU                 | MENT       | TATIO<br>DAI | N OU'<br>Mage | ГРUТ<br>2               | FOR A                     | ASSES                     | SMEN                 | TOF          | CORE           | Page       | e Number<br><b>5 o</b> :              | f 6       |
|                                                               |                            |                     |                 |             |                      | DAJ        | ra si        | HEE           | T 1                     |                           |                           |                      |              |                |            | Sheet                                 | 2 of 2    |
| <u>UNIT 2 -</u>                                               | CON                        | TRO                 | LR              | <u>00</u> 1 | M IN                 | <u>STR</u> | UMF          | ENT/          | <u>ATIO</u>             | ND.                       | ATA                       | REC                  | OR           | D FOI          | R CI       | <u>DA</u>                             |           |
| Date:                                                         |                            | Tir                 | ne: _           |             |                      |            |              | I             | Perfor                  | rmed                      | by: _                     |                      |              |                |            | ·                                     |           |
| Length Of Time                                                | Core                       | Unco                | overe           | ed (r       | ninut                | es)_       |              |               |                         |                           |                           |                      | ł            |                |            |                                       |           |
| Minimum RVL<br>Containment Bu<br>Atmosphere Hyd<br>*(UV 7501) | IS Rea<br>uilding<br>droge | ading<br>g<br>n (%) | s (%)           | )           |                      |            |              | (<br>F<br>*   | Conta<br>RE-0(<br>(R620 | inme<br>)5/00<br>)3) / (F | nt Hig<br>6 Out<br>R6204) | gh Ra<br>tput (<br>) | ange<br>mren | Radia<br>n/hr) | tion       | Monitor                               |           |
| Containment Spi<br>* - Denotes Inter                          | ray Oj<br>mated            | perati              | ing (`<br>t Cor | Yes/]       | No) _<br>tor Pc      | inta       |              | _ N<br>_ L    | Ainin<br>Jot I          | num ]                     | RCS J                     | Press                | ure          |                |            |                                       |           |
|                                                               | Sidiou                     | <u>, i i ui i</u>   |                 | mpu         |                      | mis        |              | 1             | 101 17                  | cg R                      |                           | inpe                 | latui        | c              |            | · · · · · · · · · · · · · · · · · · · |           |
|                                                               |                            |                     |                 |             |                      |            | 1            | NOR<br>180    | TH                      |                           |                           |                      |              |                |            |                                       |           |
| 1                                                             |                            |                     |                 |             |                      |            |              | T13           |                         |                           |                           |                      |              |                |            |                                       |           |
| 2 —                                                           |                            |                     | T21             |             | T42                  |            | T14          |               | T34                     |                           | T6                        |                      | T27          |                |            |                                       |           |
| 3                                                             | >                          |                     |                 |             |                      |            |              |               |                         |                           |                           |                      |              |                |            |                                       |           |
| 4                                                             |                            |                     | T46             |             | T18                  |            | Т39          |               | T10                     |                           | T31                       |                      | T3           |                |            |                                       |           |
| 5>                                                            |                            |                     |                 |             |                      |            |              |               |                         |                           |                           |                      |              |                |            |                                       |           |
| 6 —                                                           | T49                        |                     | T22             |             | T43                  |            | T15          |               | T35                     |                           | T7                        |                      | T28          |                | T1         |                                       |           |
| 7 —                                                           |                            |                     |                 |             |                      |            |              |               |                         |                           |                           |                      |              |                |            |                                       |           |
| 8                                                             | T25                        |                     | T47             |             | <b>T</b> 19          |            | T40          |               | T11                     |                           | T32                       |                      | T4           |                | T26        |                                       |           |
| 9                                                             |                            |                     |                 |             |                      |            |              |               |                         |                           |                           |                      |              |                |            |                                       |           |
| 10                                                            | Т50                        |                     | T23             |             | T44                  |            | T16          |               | T36                     |                           | T8                        |                      | T29          | •              | T2         |                                       |           |
| 11                                                            |                            |                     |                 |             |                      |            |              |               |                         |                           |                           |                      |              |                |            |                                       |           |
| 12                                                            | -                          |                     | T48             |             | T20                  |            | T41          |               | T12                     |                           | T33                       |                      | T5           |                | Ť          |                                       |           |
| 13 —                                                          | ╶┼╾                        |                     |                 |             |                      |            |              |               |                         |                           |                           |                      |              |                |            |                                       |           |
| 14                                                            |                            | 4                   | T24             |             | T45                  |            | T17          |               | T37                     |                           | Т9                        |                      | T30          |                |            |                                       |           |
| 15                                                            |                            | <b>`</b>            |                 |             |                      |            |              | T38           |                         |                           |                           | 1                    | T<br>T       |                |            |                                       |           |
|                                                               |                            |                     |                 |             | └ <u>─</u> ─ <u></u> | 4          | L            | └ <u></u>     | 4                       | └                         |                           |                      |              |                |            |                                       |           |
|                                                               | R                          | P                   | N               | M           | L                    | ĸ          | J            | н             | Ġ                       | F                         | Ē                         | Ď                    | C            | B              | A          |                                       |           |
|                                                               |                            | Tł                  | nerm            | 10001       | uple '               | Tem        | perat        | tures         | >7]                     | 11 De                     | egree                     | s F                  |              |                |            |                                       |           |
|                                                               |                            |                     |                 |             |                      |            |              |               |                         |                           |                           |                      |              |                |            |                                       |           |

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| Approved By<br>J. T. Gasser                                                                                  | Vogt                   | le Electric Gei        | nerating Plant                | A                            | Procedure Number Rev<br>91503-C 10 |
|--------------------------------------------------------------------------------------------------------------|------------------------|------------------------|-------------------------------|------------------------------|------------------------------------|
| Date Approved<br>04/05/2002                                                                                  | CONTROL ROOM           | INSTRUMENTATIO<br>DAN  | N OUTPUT FOR ASSES<br>MAGE    | SSMENT OF CORE               | Page Number<br>6 of 6              |
| <u>P0</u>                                                                                                    | DST-ACCIDENT           | DATA SI<br>RCS ADDITIO | HEET 2<br><u>N VOLUME DET</u> | <u>ERMINATION</u>            | Sheet 1 of 1                       |
| Date:                                                                                                        | Time:                  | Per                    | formed by:                    |                              |                                    |
| Unit Number                                                                                                  |                        | -                      |                               |                              |                                    |
| 1.<br>SOURCE OF<br>ADDITION                                                                                  | TANK LEVEL<br>(%) PRE- | POST-<br>ACCIDENT      | DELTA LEVEL                   |                              |                                    |
|                                                                                                              | From Logs<br>(%)       | Present Level<br>(%)   | Pre-Post<br>(%)               | Conversion<br>factor (GAL/%) | Gallons<br>Added                   |
| RWST<br>*(UV 6130)                                                                                           | (                      |                        | ) =2                          | K <u>6,900</u>               | =                                  |
| Boric Acid Tank<br>*Ch. 1 – (L6321)<br>*Ch. 4 – (L6320)                                                      | (                      |                        | ) =2                          | X <u>442</u>                 |                                    |
| Accumulators (If dis<br>*Tank 1 – (LO 490)<br>*Tank 2 – (LO 491)<br>*Tank 3 – (LO 492)<br>*Tank 4 – (LO 493) | scharged add 26,900 g  | al)                    |                               |                              |                                    |
|                                                                                                              |                        |                        | TOTAL GALLONS                 | ADDED                        | <u></u>                            |
| 2. Record T <sub>avg</sub> at<br>*(UT 5468)                                                                  | the commenceme         | nt of transient        |                               |                              |                                    |
| * - Denotes Int                                                                                              | egrated Plant Con      | nputer Points          |                               |                              |                                    |

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| Approved By<br>J. T. Gasser | Vogtle Electric Generating PlantProcedure NumberRev91104-C17                                                                                                                                                               |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date Approved<br>04/12/2002 | DUTIES OF THE OSC MANAGER     Page Number       1 of 13                                                                                                                                                                    |
| REFEREN                     | E USE PROCEDURE PRB REVIEW REQUIRED                                                                                                                                                                                        |
| 1.0                         | PURPOSE                                                                                                                                                                                                                    |
|                             | The purpose of this procedure is to provide instructions to the Operations Support Center (OSC) Manager for overall direction of the OSC.                                                                                  |
| 2.0                         | RESPONSIBILITIES                                                                                                                                                                                                           |
| 2.1                         | OSC MANAGER                                                                                                                                                                                                                |
| 2.1.1                       | The OSC Manager shall have the following responsibilities:                                                                                                                                                                 |
| 2.1.1.1                     | Managing the OSC and directing OSC emergency response personnel.                                                                                                                                                           |
| 2.1.1.2                     | Coordinating staff resources available in the OSC and ensuring proper composition of Radiological Emergency Teams (RETs)                                                                                                   |
| 2.1.1.3                     | Allocating emergency equipment and supplies.                                                                                                                                                                               |
| 2.1.1.4                     | Supervising the movement of OSC personnel in the plant and onsite except those assigned to the Technical Support Center (TSC), Security Department, Control Room and those assigned to In-Plant or Field Monitoring Teams. |
| 2.1.1.5                     | Ensuring that all VEGP employees and vendor/contractors reporting to the OSC meet the requirements of the Fitness For Duty (FFD) policy for recall of off-duty personnel.                                                  |
| 2.1.1.6                     | Ensuring that all teams receive a proper briefing to include radiological conditions.                                                                                                                                      |
| 2.1.1.7                     | Conducting and maintaining personnel accountability for those personnel assigned to the OSC.                                                                                                                               |
| 2.1.1.8                     | Ordering evacuation of OSC once approved by the TSC Manager.                                                                                                                                                               |
| 3.0                         | PREREQUISITES                                                                                                                                                                                                              |
|                             | An Alert, Site Area Emergency or General Emergency has been declared or the Emergency Director (ED) has ordered activation of the OSC.                                                                                     |
| 4.0                         | PRECAUTIONS                                                                                                                                                                                                                |
| 4.1                         | This procedure shall not take priority over measures required to maintain or restore the plant to a safe operating condition.                                                                                              |

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| Approved By<br>J. T. Gasser | Vogtle Electric Generating PlantProcedure NumberR91104-C1                                                                                                                                                                         | lev<br>1 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Date Approved 04/12/2002    | DUTIES OF THE OSC MANAGER     Page Number       2 of 13                                                                                                                                                                           |          |
| 4.2                         | This procedure does not replace any operating procedure. During an emergency condition, the OSC Manager will continue to use appropriate plant procedures in parallel with this and other Emergency Plan Implementing Procedures. |          |
| 5.0                         | PROCEDURE                                                                                                                                                                                                                         |          |
| 5.1                         | OSC ACTIVATION                                                                                                                                                                                                                    |          |
|                             | The OSC Manager shall report to the OSC, receive a briefing from the TSC Manager or ED (TSC not activated) and implement the OSC Manager's Checklist.                                                                             |          |
| 5.2                         | STAFF SUPERVISION                                                                                                                                                                                                                 |          |
| 5.2.1                       | The OSC Manager shall provide direction to the activities of the OSC Staff which may consist of the following:                                                                                                                    |          |
| 5.2.1.1                     | Health Physics/Chemistry Foreman                                                                                                                                                                                                  |          |
| 5.2.1.2                     | Maintenance Foreman (Mechanical)                                                                                                                                                                                                  |          |
| 5.2.1.3                     | Maintenance Foreman (Electrical)                                                                                                                                                                                                  |          |
| 5.2.1.4                     | I&C Foreman                                                                                                                                                                                                                       |          |
| 5.2.1.5                     | I&C Technicians                                                                                                                                                                                                                   |          |
| 5.2.1.6                     | Mechanics                                                                                                                                                                                                                         |          |
| 5.2.1.7                     | Electricians                                                                                                                                                                                                                      |          |
| 5.2.1.8                     | HP Technicians                                                                                                                                                                                                                    |          |
| 5.2.1.9                     | Chemistry Technicians                                                                                                                                                                                                             |          |
| 5.2.1.10                    | System Operators                                                                                                                                                                                                                  |          |
| 5.2.1.11                    | Off-Shift Personnel or others assigned to OSC                                                                                                                                                                                     |          |
| 5.2.1.12                    | OSC Status Loop Communicator (s)                                                                                                                                                                                                  |          |
| 5.2.2                       | In addition to providing manpower for Emergency Teams, OSC Staff should be employed to assist in developing possible preventive and corrective actions.                                                                           |          |

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| Approved By<br>J. T. Gasser | -                                    | Vogtle Electric Generating Plant                                                                                 | Procedure Number<br>91104-C | Rev<br>17 |
|-----------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|
| Date Approved<br>04/12/2002 |                                      | DUTIES OF THE OSC MANAGER                                                                                        | Page Number<br>3 of 1       | .3        |
| 6.0                         | REFERENC                             | CES                                                                                                              |                             |           |
| 6.1                         | VEGP EME                             | CRGENCY PLAN                                                                                                     |                             |           |
| 6.2                         | PROCEDU                              | RES                                                                                                              |                             |           |
| 6.2.1                       | 91101-C,                             | "Emergency Response Organization"                                                                                |                             |           |
| 6.2.2                       | 91202-C,                             | "Activation And Operation Of The OSC"                                                                            |                             |           |
| 6.2.3                       | 91204-C,                             | "Emergency Response Communications"                                                                              |                             |           |
| 6.2.4                       | 91301-C,                             | "Emergency Exposure Guidelines"                                                                                  |                             |           |
| 6.2.5                       | 91302-C,                             | "In-Plant Sampling And Surveys"                                                                                  |                             |           |
| 6.2.6                       | 91303-C,                             | "Field Sampling And Surveys"                                                                                     |                             |           |
| 6.2.7                       | 91305-C,                             | "Protective Action Guidelines"                                                                                   |                             |           |
| 6.2.8                       | 91306-C,                             | "Contamination Monitoring And Decontamination"                                                                   |                             |           |
| 6.2.9                       | 91307-C,                             | "Contaminated Injury"                                                                                            |                             |           |
| 6.2.10                      | 91401-C,                             | "Assembly And Accountability"                                                                                    |                             |           |
| 6.2.11                      | 92000-С,                             | "Fire Protection Program"                                                                                        |                             |           |
| 6.3                         | NUREG-065<br>Radiological<br>Plants" | 54, FEMA-REP-1, Rev. 1, "Criteria for Preparation and<br>Emergency Response Plans and Preparedness in Support of | Evaluation of Nuclear Power | f<br>c    |

## END OF PROCEDURE TEXT

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| Approved        | Ву                                         | Vogtle Electric Generating Plant                                                                                                                                                                                        | Procedure Number                                   | Rev  |
|-----------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------|
| J. T. G         | asser                                      | DUTIES OF THE OSC MANACED                                                                                                                                                                                               | 91104-C<br>Page Number                             |      |
| 04/12/2         | 2002                                       | DUTIES OF THE OSC MANAGER                                                                                                                                                                                               | 4 of 1                                             | 3    |
| <u>DESI</u>     | <u>GNEES</u>                               | <ul> <li>OSC MANAGER CHECKLIST</li> <li>Maintenance Manager</li> <li>Maintenance Superintendent</li> <li>Maintenance Team Leader(s)</li> </ul>                                                                          | Sheet 1 o                                          | f 10 |
| <u>RESF</u>     | ONSIB                                      | ILITY:                                                                                                                                                                                                                  |                                                    |      |
| Perfor<br>manpo | m OSC                                      | activation and report readiness to TSC Manager. Coordinate, assemble equipment resources available at the OSC.                                                                                                          | and dispatch                                       |      |
| <u>INIT</u>     | IAL AC                                     | TIONS                                                                                                                                                                                                                   |                                                    |      |
| 1.              | Report                                     | to the OSC (Maintenance Building, second floor lunch room).                                                                                                                                                             |                                                    |      |
| 2.              | Sign in<br>And Op                          | on Emergency Response Facility Roster, Data Sheet 1 in Procedure 91202-<br>eration of the Operations Support Center" and badge in on the OSC ACAT.                                                                      | C, "Activation                                     |      |
| 3.              | Assign<br>Respons                          | an individual to ensure that all personnel reporting to the OSC sign in on t se Facility Roster and badge in on the OSC ACAT.                                                                                           | he Emergency                                       |      |
| 4.              | Obtain                                     | OSC Managers Handbook and emergency identification badge.                                                                                                                                                               |                                                    |      |
| 5.              | Direct a                                   | n individual to complete the OSC Activation Checklist in Procedure 91202                                                                                                                                                | -C.                                                |      |
| 6.              | As desi<br>checklis                        | gnated OSC staff begin reporting to the OSC, ensure they obtain copies sts and other supplies from OSC supply lockers.                                                                                                  | of procedures,                                     |      |
| 7.              | When p<br>activate<br>that the<br>briefing | personnel, equipment and supplies are in a state of readiness to support t<br>the OSC and inform the TSC Manager or ED in the Control Room (TSC<br>OSC is activated. Maintain communications log and status boards. Pro | he emergency,<br>not activated)<br>wide an initial |      |
| 8.              | Conduc<br>Accoun                           | t personnel accountability of OSC staff (Procedure 91401-C, "A tability").                                                                                                                                              | ssembly And                                        |      |
|                 | a.                                         | Ensure all personnel log in on OSC ACAT.                                                                                                                                                                                |                                                    |      |
|                 | b.                                         | In addition, obtain the name and badge number (not ACAD) of all person<br>on Data Sheet 2 or equivalent of Procedure 91401-C, "Assembly And Acco                                                                        | nel and record untability".                        |      |
|                 | с.                                         | If the ACAT is not operational, deliver a copy of the OSC Emergency Rea<br>Roster to the PESB within 20 minutes of the notification of the event over t                                                                 | sponse Facility<br>he PA.                          | r    |
|                 |                                            |                                                                                                                                                                                                                         |                                                    |      |

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| Approved By   |  |  |  |  |
|---------------|--|--|--|--|
| J. T. Gasser  |  |  |  |  |
| Date Approved |  |  |  |  |
| 04/12/2002    |  |  |  |  |

# Vogtle Electric Generating Plant DUTIES OF THE OSC MANAGER

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#### OSC MANAGER CHECKLIST

#### INITIAL ACTIONS (CONT'D)

- 9. Dispatch visitors and non-essential personnel to the Administration Building.
- 10. Designate HP Technician(s) to staff the Health Physics (HP) access control point if not completed by HP Supervisor in the TSC.

#### NOTE

The initial field monitoring team will be briefed and dispatched by the TSC.

11. Form and dispatch (Notify the EOF Manager or TSC Manager) the second field monitoring team. Dispatch the third team if requested by the Dose Assessment Manager.

#### NOTE

Consult with HP Supervisor in TSC or HP Foreman to determine appropriate relocation center.

- 12. Assign a HP Technician or other qualified HP staff member to report with Evacuation Leader (Security Officer) to the offsite relocation center at an Alert to set up for contamination monitoring and decontamination should a Site Evacuation be ordered.
- 13. Ensure that ALL VEGP employees and vendor/contractors reporting to the OSC meet the requirements of the Fitness For Duty (FFD) policy for recall of off-duty personnel. The Safety and Health Department is available to help make FFD determinations.
- 14. Establish communications per Procedure 91204-C, "Emergency Response Communications."

Approved By J. T. Gasser Date Approved

# Vogtle Electric Generating Plant

04/12/2002

# **DUTIES OF THE OSC MANAGER**

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### Sheet 3 of 10

#### OSC MANAGER CHECKLIST

### INITIAL ACTIONS (CONT'D)

- 15. The OSC Manager has the option to release excess personnel to:
  - a. Be sent home, after logging out, with instructions to return for a later shift or
  - b. The maintenance building to relieve overcrowding.

If the OSC Manager elects option b the following steps should be taken:

- Designate personnel who can leave the OSC and have them log out.
- Instruct them not to leave the maintenance building unless approved by OSC Manager.
- Instruct remaining personnel not to leave OSC unless they log out and are relieved.
- Instruct all personnel that subsequent briefings will be given over the maintenance building public address system.
- Instruct all personnel to minimize entry and exit of the OSC and to always log in and out when going into and out of the maintenance building.
- Instruct Health Physics to conduct habitability surveys of the maintenance areas when applicable.

#### SUBSEQUENT ACTIONS

- 1.\* Maintain a current Emergency Response Facility Roster including assigned teams.
- 2.\* Periodically brief staff of plant conditions and work evolution's.

#### **OSC Habitability and Evacuation**

- 1.\* If a release has occurred, direct a HP Technician to conduct an area survey inside the OSC.
- 2. If the survey indicates airborne activity in excess of the criteria detailed in Procedure 91202-C, "Activation And Operation Of The OSC", immediately inform the HP Supervisor (at the TSC, if activated) or the ED (in Control Room if TSC not yet activated).
- 3. Receive instructions from the TSC Manager or designee concerning OSC evacuation and relocation.
- 4. Ensure all OSC staff and the OSC tool kit, flashlights, and other appropriate equipment are relocated. Inform the TSC Manager when evacuation and relocation have been completed.

\* Continuing Activity

Approved By J. T. Gasser Date Approved

04/12/2002

# Vogtle Electric Generating Plant

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OSC MANAGER CHECKLIST

Sheet 4 of 10

### SUBSEQUENT ACTIONS (CONT'D)

#### Radiological Emergency Teams (RETs) - General

#### NOTES

- a. To expedite the dispatch of the RETs, direct the appropriate discipline OSC maintenance foreman to form and brief the teams.
- b. One-person teams may be formed, briefed, and dispatched if there are no safety concerns and the radiological conditions are normal. (e.g., person to document control, person to warehouse, person to perform habitability of PESB)
- c. The first letter of the Emergency Response Facility that the team is dispatched from should precede the team number. (i.e. "T-1" for the first team dispatched from the TSC or "O-1" for the first team dispatched from the OSC). Teams are to maintain the same name throughout the task assigned to them.
- 1.\* Ensure that RETs are staffed according to the requirements of the assignment and are properly briefed and equipped. (Briefing may occur at TSC or HP Control Point if appropriate.)
- 2.\* Analyze potential exposures of RETs. Consult with the HP Foreman or the HP Supervisor if the TSC has been activated.
- 3.\* If emergency exposures are projected to exceed 10CFR20 limits, ensure authorization has been obtained from the ED and that a Permit for Emergency Radiation Exposure (PERE) has been initiated.
- 4.\* Inform RETs who are expected to receive emergency exposures in excess of 10CFR20 limits, consider the following selection criteria (Procedure 91301-C, "Emergency Exposure Guidelines").
  - a. Personnel should be familiar with the risks of exposure to high radiation levels which are likely during emergency conditions.
  - b. Personnel shall receive a briefing on the emergency situation. For exposures greater than 25 rem, personnel should be volunteers and aware of the risks involved.

\* Continuing Activity

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# Vogtle Electric Generating Plant

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#### OSC MANAGER CHECKLIST

Sheet 5 of 10

#### SUBSEQUENT ACTIONS (CONT'D)

- c. Declared pregnant women shall be excluded from receiving emergency exposures.
- d. Emergency exposures in excess of 25 rem, for life saving missions, should be limited to one occurrence in a lifetime.
- e. Administrative methods to minimize personnel exposure to As Low As Reasonably Achievable (ALARA) should remain in effect to the extent consistent with timely rescue, corrective and protective actions.
- f. Personnel should wear dosimeters of a type and range appropriate for the anticipated exposure.
- g. Protective clothing, respirators, self-contained breathing apparatus, and thyroid blocking agents (i.e., KI-Potassium Iodide) should be used as appropriate for the situation.
- 5.\* Ensure that Radiation Work Permits (as time permits) or PERE have been properly completed.
- 6.\* As necessary, ensure that potassium iodide (KI) is available for distribution to RETs.
- 7.\* Designate one person on each RET to be the RET Leader and instruct him to contact the OSC Communicator/Recorder at least every one-half hour via radio or plant telephone. In-Plant Monitoring Teams are to be instructed to contact HP Supervision via HP Control Point.
- 8.\* Appoint an on-the-scene response leader when teams from different disciplines or departments are dispatched in response to a plant emergency event.
- 9.\* When briefing RETs, include the following information:
  - a. Radiological conditions (high external radiation levels, surface or airborne contamination), ALARA, and stay times. (This step may be performed at the HP control point.)
  - b. Other emergency conditions and hazards (fire, steam, etc.)
  - c. Equipment and supplies needed and location.
  - d. Special instructions on communications.

<sup>\*</sup> Continuing Activity

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# Vogtle Electric Generating Plant

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# THE OF THE USC MANAGER

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#### OSC MANAGER CHECKLIST

#### SUBSEQUENT ACTIONS (CONT'D)

- e. Radiation Work Permit and/or PERE, as appropriate. Ensure RET is familiar with restrictions.
- f. Use of potassium iodide per Procedure 91305-C, "Protective Action Guidelines".
- g. Other information provided in checklist under specific area.
- 10.\* Track movements of RETs and have the OSC Communicator/Recorder or other OSC staff record team locations and other pertinent data on Status Boards.
- 11.\* Ensure that teams are debriefed upon return to the OSC and that important information obtained by the team is disseminated to the TSC. Report all unrecorded exposures to the HP Supervisor.

#### Search and Rescue

- 1. Upon instruction from the ED or TSC Manager, ensure that the following actions are taken to form and dispatch Search and Rescue Team(s).
  - a. Each team consists of at least two members that are familiar with the plant, one must be First-Aid trained.
  - b. At least one is a HP Technician if radiological conditions warrant.
- 2. Obtain information from Security concerning identification and last known location of missing persons.
- 3. Provide team(s) with search and rescue data:
  - a. I.D. of missing person(s).
  - b. Last known location (check Radiation Work Permit if one was issued).
  - c. Job individual(s) was/were working on.
  - d. Pertinent details of plant status.
  - e. Other information provided in checklist under RETs-General.

\* Continuing Activity

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| Approved<br>J. T. C | l By<br>G <b>asser</b> | Vogtle Electric Generating Plant                                                                                                                                         | Procedure Number<br>91104-C | Rev<br>17 |
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|                     |                        | OSC MANAGER CHECKLIST                                                                                                                                                    | Sheet 7 of                  | 10        |
| <u>SUB</u>          | SEQUI                  | ENT ACTIONS (CONT'D)                                                                                                                                                     |                             |           |
| 4.                  | If an a                | ambulance is required, perform the following:                                                                                                                            |                             |           |
|                     | a.                     | Inform the TSC Manager that an ambulance is required.                                                                                                                    |                             |           |
|                     | b.                     | njured person                                                                                                                                                            |                             |           |
|                     | с.                     | Inform Security of ambulance arrival (Procedure 91307-C, "Contaminate expedite site access and issue dosimetry.                                                          | ed Injury") to              |           |
|                     |                        | <b>Contaminated Injury</b>                                                                                                                                               |                             |           |
| 1.                  | Upon<br>Team           | orm First Aid                                                                                                                                                            |                             |           |
|                     | a.                     | Each team consists of at least two members, First Aid trained.                                                                                                           |                             |           |
|                     | b.                     | At least one is a HP Technician.                                                                                                                                         |                             |           |
|                     |                        | NOTE                                                                                                                                                                     |                             |           |
|                     |                        | Team members that are paged by the Control Room on the 911 receive their brief, concerning the specifics of the event in step 2 when they call back to the Control Room. | l pagers<br>2 below,        |           |
| 2.                  | Obtai:<br>contai       | n information from the TSC Manager or his designee concerning spe<br>minated injury and brief the team.                                                                  | ecifics of the              |           |
|                     | a.                     | Number of injured individual(s), names and affiliations.                                                                                                                 |                             |           |
| -                   | b.                     | Location (unit, building, elevation and column coordinates).                                                                                                             |                             |           |
|                     | c.                     | Injury type and severity.                                                                                                                                                |                             |           |
|                     | d.                     | Contamination of injured personnel.                                                                                                                                      |                             |           |
| 3.                  | Ensur<br>decor         | re that the team understands priorities of treatment of injury, montamination.                                                                                           | nitoring, and               |           |
| 4.                  | Instru                 | act the team to maintain communications with the OSC Communicator/Record                                                                                                 | ler.                        |           |

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| Approved By<br>J. T. Gasser |                                                                                                                                                                | Vogtle Electric Generating Plant                                                                                                                                | Procedure Number Rev<br>91104-C 17 |  |  |  |
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|                             |                                                                                                                                                                | OSC MANAGER CHECKLIST                                                                                                                                           | Sheet 8 of 10                      |  |  |  |
| <u>SUB</u>                  | SEQUE                                                                                                                                                          | NT ACTIONS (CONT'D)                                                                                                                                             |                                    |  |  |  |
| 5.                          | Ensure<br>of cont                                                                                                                                              | e that the HP Technicians are aware of their responsibilities during and after taminated injured personnel offsite (see Procedure 91307-C, "Contaminated        | er the transport<br>Injury").      |  |  |  |
|                             |                                                                                                                                                                | Damage Assessment/Control/Repair                                                                                                                                |                                    |  |  |  |
| 1.                          | Receiv<br>followi                                                                                                                                              | e information from TSC Manager, Maintenance Supervisor and HP Sup ing items.                                                                                    | ervisor on the                     |  |  |  |
|                             | a.                                                                                                                                                             | Work to be performed, location and route.                                                                                                                       |                                    |  |  |  |
|                             | <b>b.</b>                                                                                                                                                      | Number of people required.                                                                                                                                      |                                    |  |  |  |
|                             | c. Requirements to follow normal work order procedures.                                                                                                        |                                                                                                                                                                 |                                    |  |  |  |
| 2.                          | Form,                                                                                                                                                          | brief and dispatch Damage Control Team, upon direction from Control Roo                                                                                         | m or TSC.                          |  |  |  |
|                             | a                                                                                                                                                              | In Contaminated or High Radiation Areas, team shall consist of at least two<br>of whom shall be an HP Technician, and other necessary Technicians<br>Operators. | members, one<br>or Equipment       |  |  |  |
|                             | <b>b.</b>                                                                                                                                                      | In the absence of work in high radiation areas, the team must consist on members but need not include an HP Technician.                                         | of at least two                    |  |  |  |
| 3.                          | Receiv<br>comple                                                                                                                                               | ve report from RET Leader (or appropriate OSC Supervisor) upon leaving if eted in allotted stay time or allotted dose.                                          | task cannot be                     |  |  |  |
|                             |                                                                                                                                                                | In-Plant Monitoring Teams                                                                                                                                       |                                    |  |  |  |
| 1.                          | <ol> <li>Upon request from the HP Supervisor, form and dispatch In-Plant Monitoring Teams (Procedure<br/>91302-C, "In-Plant Sampling And Surveys").</li> </ol> |                                                                                                                                                                 |                                    |  |  |  |
|                             | a.                                                                                                                                                             | Each team consists of at least two members.                                                                                                                     |                                    |  |  |  |
|                             | b.                                                                                                                                                             | At least one is a HP technician.                                                                                                                                |                                    |  |  |  |
| 2.                          | Ensure<br>Contro                                                                                                                                               | e that teams understand that they report to the HP Supervisor at the TSC of Point.                                                                              | through the HP                     |  |  |  |

3. Account for the teams until notified by the HP Supervisor that team accountability has been assumed by the TSC.

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# Vogtle Electric Generating Plant

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OSC MANAGER CHECKLIST

Sheet 9 of 10

### SUBSEQUENT ACTIONS (CONT'D)

#### **Field Monitoring Teams**

- 1. Upon activation of the OSC, dispatch two (2) qualified personnel (1 team) per Procedure 91303-C, "Field Sampling And Surveys." Dispatch total of four (4) personnel (2 teams), if requested by the Dose Assessment Manager. Inform the EOF or TSC HP Supervisor when teams have been dispatched.
- 2. Account for the Field Monitoring Teams until notified by the Dose Assessment Manager or HP Supervisor that team accountability has been assumed by the EOF.

#### Site Evacuation

- 1. At the Alert level, dispatch a monitoring team (Health Physics Tech or other qualified HP staff member and Evacuation Leader assigned by Security) to the relocation center designated by the HP Supervisor.
- 2. When Site Evacuation is ordered, dispatch additional monitoring teams to the relocation center as needed.

#### <u>Fire</u>

- 1. Upon instruction from the TSC Manager or the ED, assemble and dispatch personnel to augment the Fire Brigade (Procedure 92000-C, "Fire Protection Program").
- 2. Inform the TSC Manager if offsite fire fighting assistance is required.

#### <u>Personnel</u>

- 1.\* Hold periodic briefings with key OSC staff to review the status of corrective and protective actions.
- 2.\* Maintain accountability of all OSC staff by periodically checking on team status and personnel located at OSC.
- 3.\* Coordinate OSC personnel requirements with the Support Coordinator or his designee at the TSC.

\* Continuing Activity

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# Vogtle Electric Generating PlantDUTIES OF THE OSC MANAGER

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## OSC MANAGER CHECKLIST

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# SUBSEQUENT ACTIONS (CONT'D)

## **Emergency Equipment and Supplies**

- 1.\* Manage the allocation of emergency equipment and supplies for the VEGP Emergency Response Teams.
- 2.\* As necessary, request additional equipment and supplies via the TSC Support Coordinator.

#### <u>Relief</u>

1. Complete General Relief Checklist in Procedure 91101-C, "Emergency Response Organization".

#### **Emergency Termination**

- 1. After the emergency condition has been declared terminated, proceed as follows:
  - a. Contact the TSC Manager or the ED to determine if OSC staff will be required during transition to the recovery phase.
  - b. Hold a final briefing with key OSC staff.
  - c. Ensure that all OSC staff are accounted for.
  - d. If Emergency Teams are still on assignment, ensure that they are informed of the transition to recovery phase and related reporting requirements.
  - e. Collect all logs and checklists and provide these to the TSC Manager.
- 2. Restore the OSC to the ready condition.
- 3. Inventory and seal all emergency kits.

\* Continuing Activity

| Approved By<br>J. T. Gasser |                                                                                                                                                                                    | Vogtle Electric Generating Plant                                                                                                                                                              |                                                        | Procedure Number<br>91202-C                         | Rev<br>12 |  |  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|-----------|--|--|
| Date Approved 04/12/2002    |                                                                                                                                                                                    | ACTIVATION AND OPERATION OF THE OPERATION<br>CENTER                                                                                                                                           | IS SUPPORT                                             | Page Number<br>1 of 1                               | 6         |  |  |
| REFEREN                     | CE U                                                                                                                                                                               | SE PROCEDURE                                                                                                                                                                                  | PRB REVIEW                                             | REQUIRED                                            |           |  |  |
| 1.0                         | PURPOSE                                                                                                                                                                            |                                                                                                                                                                                               |                                                        |                                                     |           |  |  |
|                             | The purpose of this procedure is to provide instructions for the activation and operation of the Operations Support Center (OSC).                                                  |                                                                                                                                                                                               |                                                        |                                                     |           |  |  |
| 2.0                         | <u>RE</u>                                                                                                                                                                          | <u>SPONSIBILITIES</u>                                                                                                                                                                         |                                                        |                                                     |           |  |  |
| 2.1                         | The first knowledgeable person from the Emergency Response Organization (ERO) arriving at the OSC shall be responsible for initiating preparations to physically activate the OSC. |                                                                                                                                                                                               |                                                        |                                                     |           |  |  |
| 2.2                         | The<br>coo                                                                                                                                                                         | The OSC Manager shall be responsible for declaring the OSC operational and coordinating Radiological Emergency Team (RET) formation and dispatch.                                             |                                                        |                                                     |           |  |  |
| 2.3                         | The<br>Ma<br>Fac                                                                                                                                                                   | The OSC Status Loop Communicator shall be responsible for supporting the OSC Manager with communications between the OSC and other Emergency Response Facilities and RETs.                    |                                                        |                                                     |           |  |  |
| 2.4                         | I&C<br>Tec<br>assi<br>as r                                                                                                                                                         | C Technicians, Electricians, Mechanics, Chemistry<br>chnicians, oncoming shift personnel and off-shift opera<br>isting in determining repair/damage control alternatives,<br>nembers of RETs. | Technicians, H<br>ators shall be r<br>corrective actio | Iealth Physics<br>responsible for<br>ns and serving |           |  |  |
| 2.5                         | The<br>reco                                                                                                                                                                        | e TSC Manager shall be responsible for ordering evacu ommendations from the OSC Manager and/or the Health                                                                                     | ation of the OS<br>Physics Superv                      | SC based upon visor.                                |           |  |  |
| 3.0                         | <u>PR</u>                                                                                                                                                                          | EREQUISITES                                                                                                                                                                                   |                                                        |                                                     |           |  |  |
| 3.1                         | An<br>Em                                                                                                                                                                           | Alert, Site Area Emergency or General Emergency<br>nergency Director (ED) has ordered activation of the OSC                                                                                   | y has been de<br>C.                                    | eclared or the                                      | ;         |  |  |
| 3.2                         | For<br>pro                                                                                                                                                                         | a Notification of Unusual Event, the ED may order particular particular manpower resources for assignment to RETs.                                                                            | artial activation                                      | of the OSC to                                       | )         |  |  |
| 4.0                         | <u>PR</u>                                                                                                                                                                          | ECAUTIONS                                                                                                                                                                                     |                                                        |                                                     |           |  |  |
|                             | If t<br>sho                                                                                                                                                                        | the radiological conditions indicate that the OSC is unit<br>ould consider evacuation of the OSC and to reassemble a                                                                          | inhabitable, the<br>t the TSC and/c                    | TSC Manager<br>r the EOF.                           | r         |  |  |
| I                           |                                                                                                                                                                                    |                                                                                                                                                                                               |                                                        |                                                     |           |  |  |

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| Approved By<br>J. T. Gasser |                                                                                                                                                                                                                                                                                                                              | Vogtle Electric Generating Pl                                                                                                                                                                             | ant 🔬                                                                                                | Procedure Number<br>91202-C                        | Rev<br>12 |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------|
| Date Approved 04/12/2002    | ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT<br>CENTER                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                           |                                                                                                      |                                                    | 6         |
| 5.0                         | PROCEDURE                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                           |                                                                                                      |                                                    |           |
| 5.1                         | ACTIVATION                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                           |                                                                                                      |                                                    |           |
| 5.1.1                       | The ED shall order activation of the OSC, which is located on the second floor of the Maintenance Building, and notifications of appropriate OSC staff will be made per Procedure 91002-C, "Emergency Notifications". The OSC will be operational (capable of being activated) within about an hour of initial notification. |                                                                                                                                                                                                           |                                                                                                      |                                                    |           |
|                             |                                                                                                                                                                                                                                                                                                                              | NOTES                                                                                                                                                                                                     |                                                                                                      |                                                    |           |
|                             |                                                                                                                                                                                                                                                                                                                              | OSC personnel that are already in the fie<br>duties may be credited as minimum shift s<br>Technicians/FMT members/crafts).                                                                                | ld performing their er<br>staffing for activation.                                                   | nergency<br>(i.e. HP                               |           |
| 5.1.1.1                     | To<br>per                                                                                                                                                                                                                                                                                                                    | declare the facility activated the following min<br>form the following functions:                                                                                                                         | nimum OSC staff must                                                                                 | be present to                                      |           |
|                             |                                                                                                                                                                                                                                                                                                                              | <b>POSITION</b>                                                                                                                                                                                           | <b>FUNCTIO</b>                                                                                       | <u>DN</u>                                          |           |
|                             | •                                                                                                                                                                                                                                                                                                                            | · OSC Manager                                                                                                                                                                                             | OSC Management                                                                                       |                                                    |           |
|                             | •                                                                                                                                                                                                                                                                                                                            | Health Physics Technicians (2)                                                                                                                                                                            | Radiation Protection/                                                                                | First Aid                                          |           |
|                             | •                                                                                                                                                                                                                                                                                                                            | (May be located at TSC or HPCP)<br>Field Monitoring Personnel (2)<br>(Filled by on-shift personnel for first FMT)                                                                                         | Offsite Surveys                                                                                      |                                                    |           |
|                             | ٠                                                                                                                                                                                                                                                                                                                            | Electricians (2)                                                                                                                                                                                          | Electrical Maintenance                                                                               | e                                                  |           |
|                             | ٠                                                                                                                                                                                                                                                                                                                            | Mechanics (2)                                                                                                                                                                                             | Mechanical Maintena                                                                                  | nce                                                |           |
|                             | •                                                                                                                                                                                                                                                                                                                            | Instrument & Control Technicians (2)                                                                                                                                                                      | Instrument & Control                                                                                 | Maintenance                                        |           |
|                             |                                                                                                                                                                                                                                                                                                                              | NOTE                                                                                                                                                                                                      |                                                                                                      |                                                    |           |
|                             |                                                                                                                                                                                                                                                                                                                              | The first letter of the Emergency Respondispatched from should precede the team in team dispatched from the TSC or "O-1" for the OSC). Teams are to maintain the stassigned to them.                      | onse Facility that the<br>number. (i.e. "T-1" for<br>r the first team dispatc<br>ame name throughout | team is<br>the first<br>hed from<br>the task       |           |
| 5.1.2                       | The<br>dos<br>Fac<br>boa                                                                                                                                                                                                                                                                                                     | e following personnel who are members of the l<br>simetry and emergency identification badges, s<br>cility Roster", Data Sheet 1, or similar form, se<br>ards, and follow the directions of the OSC Manag | RETs, shall report to th<br>ign in on the "Emerg<br>t up work stations incl<br>ger:                  | ne OSC, obtain<br>ency Response<br>usive of status | ;         |

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| Date Approved<br>04/12/2002 |                                                                                                                           | ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT<br>CENTER                                                                            | Page Number<br><b>3 of 16</b>      |  |
| 5.1.2.1                     | Mainte                                                                                                                    | mance Team Leaders/Assistant Team Leaders not assigned to the TS                                                                        | С.                                 |  |
| 5.1.2.2                     | I&C Te                                                                                                                    | echnicians                                                                                                                              |                                    |  |
| 5.1.2.3                     | Mechanics                                                                                                                 |                                                                                                                                         |                                    |  |
| 5.1.2.4                     | Electric                                                                                                                  | cians                                                                                                                                   |                                    |  |
| 5.1.2.5                     | Chemi                                                                                                                     | stry and Health Physics Technicians not assigned to TSC or control p                                                                    | point.                             |  |
| 5.1.2.6                     | Other (                                                                                                                   | Operators                                                                                                                               |                                    |  |
| 5.1.2.7                     | OSC S                                                                                                                     | upport Staff Personnel                                                                                                                  |                                    |  |
| 5.1.2.7.1                   | Nuclea                                                                                                                    | r Specialist                                                                                                                            |                                    |  |
| 5.1.2.7.2                   | Work I                                                                                                                    | Planners                                                                                                                                |                                    |  |
| 5.1.2.7.3                   | Quality                                                                                                                   | y Control Specialist                                                                                                                    |                                    |  |
| 5.1.2.7.4                   | Perform                                                                                                                   | mance Team Technical Staff                                                                                                              |                                    |  |
| 5.1.2.8                     | OSC S                                                                                                                     | tatus Loop Communicator(s)                                                                                                              |                                    |  |
| 5.1.3                       | If othe<br>shift du                                                                                                       | er personnel have assumed their assigned position, stand by the O<br>uty or other assignment in accordance with directions from the OSC | SC for second<br>Manager.          |  |
| 5.1.4                       | The OSC Manager shall report OSC readiness per the OSC Manager Checklist, Procedure 91104-C, "Duties Of The OSC Manager". |                                                                                                                                         |                                    |  |
| 5.2                         | FUNC                                                                                                                      | TIONS AND OPERATIONS                                                                                                                    |                                    |  |
| 5.2.1                       | After a organi                                                                                                            | activation, the following functions shall be performed at the OSC a zation shown in Figure 1:                                           | ccording to the                    |  |
| 5.2.1.1                     | Serve                                                                                                                     | as the assembly and staging area for personnel pooled for emergency                                                                     | response.                          |  |
| 5.2.1.2                     | Respond to requests from the ED and TSC concerning deployment of RETs.                                                    |                                                                                                                                         |                                    |  |
| 5.2.1.3                     | Manag                                                                                                                     | gement of emergency equipment and supplies.                                                                                             |                                    |  |
| 5.2.1.4                     | Coordination of movement of personnel in the plant and onsite, except for those assigned to the TSC and Control Room.     |                                                                                                                                         |                                    |  |
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| Approved By<br>J. T. Gasser |                                                                                                                                                                                                                                                                                                                                                                                               | Vogtle Electric Generating Plant 🛕                                                                                                                                                                                                                                                                                                                                                                | Procedure Number<br>91202-C                                                         | Rev<br>12 |
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| Date Approved               |                                                                                                                                                                                                                                                                                                                                                                                               | ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT                                                                                                                                                                                                                                                                                                                                                | Page Number<br>4 of 1                                                               | 6         |
| 04/12/2002                  |                                                                                                                                                                                                                                                                                                                                                                                               | CENTER                                                                                                                                                                                                                                                                                                                                                                                            | +011                                                                                | <u> </u>  |
| 5.2.2                       | The<br>Dar<br>incl<br>deb<br>ens<br>Cor                                                                                                                                                                                                                                                                                                                                                       | e OSC Manager shall coordinate the activities of the Search and Reso<br>nage Assessment, Damage Control, and Repair and Modification Team<br>nude ensuring that teams are properly briefed and equipped prior to<br>riefed upon return to the OSC. He shall maintain a communications<br>ure that important information obtained by these teams is disseminated to<br>ntrol Room, as appropriate. | cue, First Aid,<br>ns. This shall<br>dispatch and<br>s logbook and<br>o the TSC and |           |
| 5.2.3                       | The                                                                                                                                                                                                                                                                                                                                                                                           | OSC Manager shall issue vehicle and fuel pump keys to the offsite surv                                                                                                                                                                                                                                                                                                                            | vey teams.                                                                          |           |
| 5.2.4                       | The<br>mai                                                                                                                                                                                                                                                                                                                                                                                    | e OSC Status Loop Communicator(s) shall report directly to the OSC intain communications logs and status boards.                                                                                                                                                                                                                                                                                  | Manager and                                                                         |           |
| 5.2.5                       | The<br>und<br>Acc                                                                                                                                                                                                                                                                                                                                                                             | e OSC support staff personnel shall conduct personnel accountability<br>for the direction of the OSC Manager, per Procedure 91401-C, "A<br>countability".                                                                                                                                                                                                                                         | of OSC Staff,<br>Assembly and                                                       |           |
| 5.2.6                       | Technicians, Off-shift Operators and oncoming shift personnel shall assist the OSC Manager and serve as members of emergency teams. Team members shall be qualified as RET members. Each team shall include at least one health physics technician if radiological conditions warrant. The composition of teams, reporting requirements and appropriate procedures/checklists are as follows: |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |           |
| 5.2.6.1                     | Sea                                                                                                                                                                                                                                                                                                                                                                                           | rch and Rescue Team                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |           |
|                             | a.                                                                                                                                                                                                                                                                                                                                                                                            | Designees and Qualifications:                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |           |
|                             |                                                                                                                                                                                                                                                                                                                                                                                               | At least two members that are familiar with the plant and ONE must<br>trained, ONE being a Health Physics Technician if radiologic<br>warrant. Team formed by OSC Manager or designee.                                                                                                                                                                                                            | st be First Aid-<br>cal conditions                                                  |           |
|                             | b.                                                                                                                                                                                                                                                                                                                                                                                            | Reporting Requirements:                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |           |
|                             |                                                                                                                                                                                                                                                                                                                                                                                               | Team Leader (designated by OSC Manager) reports to the OSC Ma<br>or via OSC Foreman/Supervisor at least every one-half hour by ha<br>plant telephone, or page.                                                                                                                                                                                                                                    | nager directly,<br>and-held radio,                                                  |           |
|                             | c.                                                                                                                                                                                                                                                                                                                                                                                            | Procedure/Checklist:                                                                                                                                                                                                                                                                                                                                                                              |                                                                                     |           |
|                             |                                                                                                                                                                                                                                                                                                                                                                                               | Procedure 91306-C, "Contamination Monitoring and Decontaminat                                                                                                                                                                                                                                                                                                                                     | ion".                                                                               |           |
|                             |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |           |
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| Approved By                 |        | Vogtle Electric Generating Plant                                                                                                                                       | Procedure Number 91202-C            | Rev<br>12 |  |  |
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| Date Approved<br>04/12/2002 |        | ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT<br>CENTER                                                                                                           | Page Number<br>5 of 16              |           |  |  |
|                             | ······ |                                                                                                                                                                        |                                     |           |  |  |
|                             |        | NOTE                                                                                                                                                                   |                                     |           |  |  |
|                             |        | First Aid Team members that are paged by the Control Room on<br>pagers receive their brief, concerning the specifics of the event, w<br>call back to the Control Room. | the 911<br>Then they                |           |  |  |
| 5.2.6.2                     | First  | t Aid Team                                                                                                                                                             |                                     |           |  |  |
|                             | a.     | Designees and Qualifications:                                                                                                                                          |                                     |           |  |  |
|                             |        | At least two members, who are First Aid-trained, ONE being a D<br>Technician if the injured person is potentially contaminated.                                        | Health Physics                      |           |  |  |
|                             | Ъ.     | Reporting Requirements:                                                                                                                                                |                                     |           |  |  |
|                             |        | Team Leader (designated by OSC Manager) reports to the OSC M<br>or via OSC Foreman/Supervisor at least every one-half hour by ha<br>plant telephone or page.           | anager directly<br>and-held radio,  |           |  |  |
|                             | c.     | Procedures/Checklists:                                                                                                                                                 |                                     |           |  |  |
|                             |        | Procedure 91306-C, "Contamination Monitoring and Decontamination".                                                                                                     |                                     |           |  |  |
|                             |        | Procedure 91307-C, "Contaminated Injury".                                                                                                                              |                                     |           |  |  |
| 5.2.6.3                     | Dam    | nage Assessment/Control Team                                                                                                                                           |                                     |           |  |  |
|                             | a.     | Designees and Qualifications:                                                                                                                                          |                                     |           |  |  |
|                             |        | At least two appropriately qualified OSC personnel. Formed by OS designee.                                                                                             | SC Manager or                       |           |  |  |
|                             | b.     | Reporting Requirements:                                                                                                                                                |                                     |           |  |  |
|                             |        | Team Leader (designated by OSC Manager) reports to OSC Mana<br>via OSC Foreman/Supervisor at least every one-half hour by ha<br>plant telephone or page.               | ager directly or<br>and-held radio, |           |  |  |
|                             | c.     | Procedure/Checklist:                                                                                                                                                   |                                     |           |  |  |
|                             |        | Procedure 91306-C, "Contamination Monitoring and Decontamina<br>Physics Technician accompanies team.                                                                   | tion", if Health                    |           |  |  |

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| Approved By<br>J. T. Gasser |          | Vogtle Electric Generating Plant                                                                                                                                                                   | Procedure Number Rev<br>91202-C 12              |
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| Date Approved<br>04/12/2002 | RASE     | ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT<br>CENTER                                                                                                                                       | Page Number<br>6 of 16                          |
|                             | <u> </u> |                                                                                                                                                                                                    |                                                 |
| 5.2.6.4                     | Repa     | ir and Modification Team                                                                                                                                                                           |                                                 |
|                             | a.       | Designees and Qualifications:                                                                                                                                                                      |                                                 |
|                             |          | At least two appropriately qualified OSC personnel. Formed by OS designee.                                                                                                                         | SC Manager or                                   |
| ,                           | b.       | Reporting Requirements:                                                                                                                                                                            |                                                 |
|                             |          | Team Leader (designated by OSC Manager) reports to OSC Mana<br>via OSC Foreman/Supervisor at least every one-half hour by ha<br>plant telephone or page.                                           | ager directly or<br>and-held radio,             |
|                             | c.       | Procedures/Checklists:                                                                                                                                                                             |                                                 |
|                             |          | Procedures 91306-C, "Contamination Monitoring and Decont<br>Health Physics Technician accompanies team.                                                                                            | tamination", if                                 |
|                             |          | NOTE                                                                                                                                                                                               |                                                 |
|                             | In-pla   | ant monitoring teams are normally formed at the Health Physics Contr                                                                                                                               | col Point.                                      |
| 5.2.6.5                     | In-Pl    | ant Monitoring Team                                                                                                                                                                                |                                                 |
|                             | a.       | Designees and Qualifications:                                                                                                                                                                      |                                                 |
|                             |          | At least two members, with at least one being a Health Phys<br>Formed by OSC Manager or designee when dispatched from the O                                                                        | ics Technician.<br>SC.                          |
|                             | b.       | Reporting Requirements:                                                                                                                                                                            |                                                 |
|                             |          | Team Leader (designated by OSC Manager when dispatched the reports at least every one-half hour to Health Physics Supervisor Team Communicator in the TSC by hand-held radio, plant telephoneters. | from the OSC)<br>r or via Survey<br>ne or page. |
|                             | c.       | Procedure/Checklist:                                                                                                                                                                               |                                                 |
|                             |          | Procedure 91302-C, "In-Plant Sampling and Surveys".                                                                                                                                                |                                                 |
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| Approved By                 | ň.    | Vogtle Electric Generating Plant                                                                                                                                                                                                   | Procedure Number Rev<br>91202-C 12                 |
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| Date Approved<br>04/12/2002 | 8     | ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT<br>CENTER                                                                                                                                                                       | Page Number<br>7 of 16                             |
|                             |       |                                                                                                                                                                                                                                    |                                                    |
| 5.2.6.6                     | Back  | -up Fire Brigade                                                                                                                                                                                                                   |                                                    |
|                             | a.    | Designees and Qualifications:                                                                                                                                                                                                      |                                                    |
|                             |       | Assigned Fire Brigade personnel. Formed by OSC Manager or desi                                                                                                                                                                     | ignee.                                             |
|                             | b.    | Reporting Requirements:                                                                                                                                                                                                            |                                                    |
|                             |       | Team Leader (designated by OSC Manager) reports to Fire Brigad OSC Manager when assigned task is completed.                                                                                                                        | de Captain and                                     |
|                             | c.    | Procedure/Checklist:                                                                                                                                                                                                               |                                                    |
|                             |       | Procedure 92000-C, "Fire Protection Program".                                                                                                                                                                                      |                                                    |
| 5.2.6.7                     | Field | l Monitoring Team                                                                                                                                                                                                                  |                                                    |
|                             | a.    | Designees and Qualifications:                                                                                                                                                                                                      |                                                    |
|                             |       | Assigned Field Monitoring Team (FMT) personnel. At least two are Field Monitoring Team trained.                                                                                                                                    | members who                                        |
|                             | b.    | Reporting Requirements:                                                                                                                                                                                                            |                                                    |
|                             |       | Team Leader (designated by OSC Manager or designee) reports at 1<br>half hour to the Dose Assessment Manager (or HP Supervisor if<br>activated) via the Field Monitoring Team Communicator in TS<br>mobile and/or hand held radio. | least every one-<br>the EOF is not<br>SC or EOF by |
|                             | c.    | Procedures/Checklist                                                                                                                                                                                                               |                                                    |
|                             |       | Procedure 91303-C, "Field Sampling and Surveys".                                                                                                                                                                                   |                                                    |
|                             |       | Procedure 91306-C, "Contamination Monitoring and Decontamina                                                                                                                                                                       | tion".                                             |
|                             |       |                                                                                                                                                                                                                                    |                                                    |
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| Approved By<br>J. T. Gasser |                      | Vogtle Electric Generating Plant                                                                                                                                                                                                  | Procedure Number<br>91202-C              | Rev<br>12 |
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| Date Approved<br>04/12/2002 | ·                    | ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT<br>CENTER                                                                                                                                                                      | Page Number<br>8 of 1                    | 6         |
| 5.2.6.8                     | Site                 | Evacuation Team                                                                                                                                                                                                                   |                                          |           |
|                             | a.                   | Designees and Qualifications:                                                                                                                                                                                                     |                                          |           |
|                             |                      | At least two members with one being a Health Physics Tech or othe<br>staff member and an assigned Evacuation Team Leader (Nu<br>Officer). Team formed by the OSC Manager or his designee.                                         | r qualified HP<br>clear Security         |           |
|                             | b.                   | Reporting Requirements:                                                                                                                                                                                                           |                                          |           |
|                             |                      | Team leader provides periodic progress report to the OSC Manager OSC Foreman/Supervisor by radio or telephone.                                                                                                                    | directly or via                          | ,         |
|                             | c.                   | Procedures/Checklists:                                                                                                                                                                                                            |                                          |           |
|                             |                      | Procedure 91306-C, "Contamination Monitoring and Decontaminati                                                                                                                                                                    | ion"                                     |           |
|                             |                      | Procedure 91403-C, "Site Evacuation", Evacuation Leader Checklis                                                                                                                                                                  | t                                        |           |
| 5.2.7                       | Prio<br>shif<br>desi | or to activation of the OSC, the ED may dispatch Emergency Teams<br>t personnel. In this case, teams will be formed by and report to the<br>gnee.                                                                                 | from assigned<br>he ED, or his           | ;         |
|                             |                      | NOTES                                                                                                                                                                                                                             |                                          |           |
|                             |                      | a. Communications links available in the OSC are desc<br>Procedure 91204-C, "Emergency Response Communications                                                                                                                    | ribed in<br>s".                          |           |
|                             |                      | b. Emergency equipment and supplies stored at or near the detailed in Procedure 91702-C, "Emergency Equipm Supplies" or 91705-C, "Inventory And Testing Of Er Preparedness Material/Equipment Which Are Not Part Emergency Kits". | OSC are<br>ent and<br>nergency<br>Of The |           |
| 5.2.8                       | The<br>initi         | OSC Manager will make provisions for a shift change within 12 to 1 interview of the current shift.                                                                                                                                | 6 hours of the                           | ;         |
|                             |                      |                                                                                                                                                                                                                                   |                                          |           |
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| Approved By   |                                                                                                                                                                                       | Vogtle Electric Generating Plant                                                                                                                      | Procedure Number Rev<br>91202-C 12 |  |  |
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| Date Approved | ACTI                                                                                                                                                                                  | VATION AND OPERATION OF THE OPERATIONS SUPPORT                                                                                                        | Page Number<br>9 of 16             |  |  |
| 04/12/2002    |                                                                                                                                                                                       | CENTER                                                                                                                                                |                                    |  |  |
| 5.3           | OSC EVAC                                                                                                                                                                              | UATION                                                                                                                                                |                                    |  |  |
| 5.3.1         | Evacuation of the OSC should be considered if the facility is not functional or its radiological conditions reach or exceed either or both of the following values:                   |                                                                                                                                                       |                                    |  |  |
|               | a. Dose                                                                                                                                                                               | a. Dose Rate = 100 mRem/hr                                                                                                                            |                                    |  |  |
|               | b. Iodin                                                                                                                                                                              | e Activity - 2.7E-7 μCi/cc                                                                                                                            |                                    |  |  |
| 5.3.2         | The TSC M<br>Manager. He<br>the TSC and                                                                                                                                               | anager may order evacuation of the OSC as recommende<br>e shall instruct the OSC Manager to relocate staff, equipment<br>for the EOF, as appropriate. | d by the OSC<br>and supplies to    |  |  |
| 5.3.3         | The OSC Manager shall determine the reassembly points for the OSC staff and direct the evacuation. Personnel who may be called on for immediate support will be relocated to the TSC. |                                                                                                                                                       |                                    |  |  |
| 5.3.4         | The OSC Ma<br>of OSC evac                                                                                                                                                             | anager shall contact all RETs performing in-plant activities an uation, interim communications methods and reassembly loca                            | nd inform them tions.              |  |  |
| 5.3.5         | The OSC Ma<br>and shall rep                                                                                                                                                           | anager shall keep the TSC Manager apprised of all phases of ort completion of relocation.                                                             | the evacuation                     |  |  |
| 6.0           | <u>REFERENC</u>                                                                                                                                                                       | CES                                                                                                                                                   |                                    |  |  |
| 6.1           | VEGP EME                                                                                                                                                                              | CRGENCY PLAN                                                                                                                                          |                                    |  |  |
| 6.2           | PROCEDU                                                                                                                                                                               | RES                                                                                                                                                   |                                    |  |  |
| 6.2.1         | 91002-C,                                                                                                                                                                              | "Emergency Notifications"                                                                                                                             |                                    |  |  |
| 6.2.2         | 91104-C,                                                                                                                                                                              | "Duties of the OSC Manager"                                                                                                                           |                                    |  |  |
| 6.2.3         | 91204-C,                                                                                                                                                                              | "Emergency Response Communications"                                                                                                                   |                                    |  |  |
| 6.2.4         | 91302-C                                                                                                                                                                               | "In-Plant Sampling and Surveys"                                                                                                                       |                                    |  |  |
| 6.2.5         | 91303-C,                                                                                                                                                                              | "Field Sampling And Surveys"                                                                                                                          |                                    |  |  |
| 6.2.6         | 91306-C,                                                                                                                                                                              | "Contamination Monitoring and Decontamination"                                                                                                        |                                    |  |  |
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| Approved By<br>J. T. Gasser |                   |                                  | Vogtle Electric Generating Plant                                                                           | Procedure Number Rev<br>91202-C 12 |  |  |
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| Date Approved 04/12/2002    |                   | ACTIV                            | ATION AND OPERATION OF THE OPERATIONS SUPPORT<br>CENTER                                                    | Page Number<br>10 of 16            |  |  |
| 6.2.7                       | 913               | 07-C,                            | "Contaminated Injury"                                                                                      |                                    |  |  |
| 6.2.8                       | 91401-C,          |                                  | "Assembly and Accountability"                                                                              |                                    |  |  |
| 6.2.9                       | 917               | 02-C,                            | Emergency Equipment And Supplies"                                                                          |                                    |  |  |
| 6.2.10                      | 917               | 05-C,                            | "Inventory And Testing Of Emergency Preparedness Mater<br>Which Are Not Part Of The Emergency Kits         | rial/Equipment                     |  |  |
| 6.2.11                      | 920               | 00-C,                            | "Fire Protection Program"                                                                                  |                                    |  |  |
| 6.3                         | NU<br>Rad<br>Plar | REG-0654<br>liological 1<br>nts" | FEMA-REP-1, Rev 1, "Criteria for Preparation and Emergency Response Plans and Preparedness in Support of I | Evaluation of<br>Nuclear Power     |  |  |
| 6.4                         | NU                | REG-0696                         | , "Functional Criteria for Emergency Response Facilities"                                                  |                                    |  |  |
|                             |                   |                                  | END OF PROCEDURE TEXT                                                                                      |                                    |  |  |
|                             |                   |                                  |                                                                                                            |                                    |  |  |
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| Approved J. T. G     | <sup>By</sup><br>asser | Vo           | gtle Electric Generating Plant                       | Proce<br>912                         | dure Number Rev<br>02-C 12<br>Number        |  |  |
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| Date Appr<br>04/12/2 | oved<br>2002           | ACTIVATIO    | ON AND OPERATION OF THE OPERATIONS SUPPORT<br>CENTER | I ugo                                | 12 of 16                                    |  |  |
|                      |                        | EMERC        | DATA SHEET 1<br>GENCY RESPONSE FACILITY ROSTER       |                                      | Sheet 1 of 1                                |  |  |
| Facilit              | Facility               |              |                                                      |                                      |                                             |  |  |
| Date_                | Date (FOR RECALLED     |              |                                                      |                                      |                                             |  |  |
| T                    | TIME BADGE NO.         |              |                                                      | ERSONN<br>lave you c<br>cohol in the | NEL ONLY)<br>onsumed any<br>e past 5 hours? |  |  |
| IN                   | OUT                    | (NO, SG, SD) | NAME                                                 | NO                                   | YES                                         |  |  |
|                      |                        |              |                                                      |                                      |                                             |  |  |
|                      |                        |              |                                                      |                                      |                                             |  |  |
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| Approved By<br>J. T. Gasser           |                           | Vogtle Electric Generat | ting Plant 🛕           | Procedure Number<br>91202-C  |
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| Date Approved 04/12/2002              | ACTIVATION A              | AND OPERATION OF THE    | OPERATIONS SUPPORT CEN | NTER Page Number<br>13 of 16 |
|                                       |                           | DATA SHEET              | 2                      |                              |
|                                       |                           | HABITABILITY SU         | URVEY                  |                              |
| OSC FACIL                             | ITY                       |                         |                        | Date                         |
| Time (once per h                      | our minimum)              |                         |                        |                              |
| Dose Rate<br>(100 mRem/hr lin         | mit)                      |                         |                        |                              |
| Iodine Activity (2.7E-7 µCi/cc limit) |                           |                         |                        |                              |
| Air Sample Activ                      | vity                      |                         |                        |                              |
| Swipe Survey                          |                           |                         |                        |                              |
| OSC Manager ar<br>advised of the res  | nd HP Supervisor<br>sults |                         |                        |                              |
| Performed by initials                 |                           |                         |                        |                              |
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| Approved By<br>J. T. Gasser | Vogtle Electric Generating Plant                                                                                                                                                                      | Procedure Number Rev<br>91202-C 12 |  |  |  |
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| Date Approved<br>04/12/2002 | ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT<br>CENTER                                                                                                                                          | Page Number<br><b>14 of 16</b>     |  |  |  |
|                             | OSC ACTIVATION CHECKLIST                                                                                                                                                                              | Sheet 1 of 1                       |  |  |  |
| <u>RESPONSI</u>             | BILITY:                                                                                                                                                                                               |                                    |  |  |  |
|                             | All personnel reporting to the OSC shall prepare the OSC physically for use<br>Emergency Response Organization.                                                                                       | e by the VEGP                      |  |  |  |
| INITIAL A                   | CTIONS                                                                                                                                                                                                |                                    |  |  |  |
| 1.                          | Badge in on the OSC ACAT.                                                                                                                                                                             |                                    |  |  |  |
| 2.                          | Review the OSC Floor Plan per layout posted in OSC.                                                                                                                                                   |                                    |  |  |  |
| 3.                          | Sign in on the Emergency Response Facility Roster and answer Fitness for question. (FFD question for recalled personnel only).                                                                        | or Duty (FFD)                      |  |  |  |
| 4.                          | Remove emergency response materials and equipment from storage area<br>physical facilities per layout posted in OSC.                                                                                  | as and arrange                     |  |  |  |
| 5.                          | Remove telephones, emergency identification badges, status boards, copies of procedures, checklists, maps and other equipment/supplies from the OSC Emergency Kit and prepare the OSC for activation. |                                    |  |  |  |
| 6.                          | Check operability of telephones by lifting receiver and listening for a dial to                                                                                                                       | one.                               |  |  |  |
| 7.                          | Perform radio check of hand held radios (Ops, HP, Mech, Elec/I&C a Channels).                                                                                                                         | nd FMT/REX                         |  |  |  |
|                             | NOTES                                                                                                                                                                                                 |                                    |  |  |  |
|                             | OSC personnel that are already in the field performing their enduties may be credited as minimum shift staffing for activation. Technicians/FMT members/crafts).                                      | nergency<br>(i.e. HP               |  |  |  |
| 8.                          | Ensure that the minimum OSC staff that is needed for activation is press<br>5.1.1.1 of this procedure.                                                                                                | ent per section                    |  |  |  |
| 9.                          | Report readiness to the OSC Manager.                                                                                                                                                                  |                                    |  |  |  |
| 10.                         | If the OSC Manager has not arrived, begin completing OSC Manager<br>Procedure 91104-C, "Duties Of The OSC Manager".                                                                                   | r Checklist in                     |  |  |  |
| 11.                         | Establish your workstation and await instructions from the OSC Ma Manager.                                                                                                                            | nager or TSC                       |  |  |  |
|                             |                                                                                                                                                                                                       |                                    |  |  |  |

| Approved By                 | Vogtle Electric Generating Plant                                                                                                              | Procedure Number Rev<br>91202-C 12 |  |  |  |
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| Date Approved<br>04/12/2002 | ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT<br>CENTER                                                                                  | Page Number<br>15 of 16            |  |  |  |
|                             | LAB FOREMAN CHECKLIST                                                                                                                         | Sheet 1 of 2                       |  |  |  |
| POSITION I                  | FILLED BY: HP Foreman                                                                                                                         |                                    |  |  |  |
| INITIAL AC                  | <u>CTIONS</u>                                                                                                                                 |                                    |  |  |  |
| 1.                          | Report to the OSC.                                                                                                                            |                                    |  |  |  |
| 2.                          | Sign-in on the Emergency Response Facility Roster and badge in on OSC A                                                                       | CAT.                               |  |  |  |
| 3.                          | Obtain work packets. (Packets located in the OSC document control cabine                                                                      | et.)                               |  |  |  |
| 4.                          | Obtain briefings from OSC Manager, senior on-shift Health Physics Technician or HP Supervisor (from TSC) on status of plant and any releases. |                                    |  |  |  |
| 5.                          | Advise OSC Manager when ready for operation and begin maintaining appropriate logs and checklists.                                            |                                    |  |  |  |
| 6.                          | Establish an unmanned personnel-monitoring station at the entrance to the G                                                                   | DSC.                               |  |  |  |
| 7.                          | Periodically monitor conditions in accordance with the Habitability Checklist on the following sheet.                                         |                                    |  |  |  |
| <u>SUBSEQUE</u>             | SUBSEQUENT ACTIONS                                                                                                                            |                                    |  |  |  |
| 1.                          | Assign Health Physics Technicians to Radiological Emergency Tear                                                                              | ns (RETs) if                       |  |  |  |

Assign Health Physics Technicians to Radiological Emergency Teams (RETs) if radiological conditions warrant or are unknown in areas where teams will be working. (i.e., Plant Entry Security Building, Secondary Alarm Station, Supervisor Nuclear Security office).

#### NOTE

- a. Do not use a designated emergency response field-monitoring vehicle for transportation to the relocation center. Non-emergency department vehicle keys may be obtained from the maintenance tool room (Maintenance Building) and Human Resources department (Administrative Building).
- b. Ensure that the offsite relocation team takes their procedure manual when dispatched from OSC.
- 2. Assign Health Physics personnel to report with the Evacuation Leader (Nuclear Security Officer) to the offsite relocation center at an ALERT to set up for decontamination, should a Site Evacuation be ordered.

Approved By J. T. Gasser Date Approved

04/12/2002

#### Procedure Number **Vogtle Electric Generating Plant** 91202-C **ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT** Page Number CENTER

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#### LAB FOREMAN CHECKLIST

Sheet 2 of 2

### SUBSEQUENT ACTIONS CONTINUED

#### **OFFSITE PERSONNEL MONITORING AND DECONTAMINATION** (SITE EVACUATION)

- Upon instruction from the HP Supervisor, dispatch available HP Foreman or Health 1. Physics personnel to the Plant Entry and Security Building Exit to monitor personnel as they evacuate the protected area. Exiting personnel should be frisked for contamination if they alarm the high sensitivity portal monitors.
- 2. If exiting personnel are found to be contaminated, have any contaminated clothing removed and provide temporary coveralls and shoe covers. Direct individuals to the offsite relocation center or other appropriate location for decontamination.
- 3. When required, request permission from the TSC to dispatch additional monitoring teams to the assigned relocation center.
- Remain in contact with the offsite relocation center (via radio channel FMT/REX or 4. telephone) to review the progress of offsite monitoring and decontamination activities.

#### **OSC RADIOLOGICAL HABITABILITY CHECKLIST**

- 1. \*Periodically monitor radiological conditions in the area if a radiological release is suspected or occurring.
- \*Log the time, dose rate (if appropriate), air sample results, iodine concentration and 2. swipe survey results. (Use Data Sheet 2 or similar form)
- 3. Report findings to the HP Supervisor and OSC Manager.

\*Continuing Activity

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| Approved By<br>J. T. Gasser    |                                                                                                                                                                         | Vogtle Electric Generating Plant 🔬                                                                                                                                                     | 91302-C                  | 10 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----|
| Date Approved<br>04/12/2002    |                                                                                                                                                                         | IN-PLANT SAMPLING AND SURVEYS                                                                                                                                                          | Page Number<br>1 of '    | 7  |
| REFERENCE USE PROCEDURE PRB RE |                                                                                                                                                                         |                                                                                                                                                                                        | REQUIRED                 |    |
| 1.0                            | <u><b>PU</b></u> ]                                                                                                                                                      | RPOSE                                                                                                                                                                                  |                          |    |
|                                | The purpose of this procedure is to provide instructions for performing sampling and surveys within the protected area during emergency conditions.                     |                                                                                                                                                                                        |                          |    |
| 2.0                            | <u>RE</u>                                                                                                                                                               | <b>SPONSIBILITIES</b>                                                                                                                                                                  |                          |    |
| 2.1                            | The Health Physics (HP) Supervisor (HP/Chem Shared Foreman after normal working hours until relieved by augmented personnel) shall have the following responsibilities: |                                                                                                                                                                                        |                          |    |
| 2.1.1                          | Det                                                                                                                                                                     | ermining the need for In-Plant Monitoring Teams.                                                                                                                                       |                          |    |
| 2.1.2                          | Evaluating survey results and reporting radiological information to the Emergency Director (ED) or Technical Support Center (TSC) Manager with recommendations.         |                                                                                                                                                                                        |                          |    |
| 2.2                            | The<br>sha<br>from                                                                                                                                                      | The Operations Support Center (OSC) Manager (or HP Foreman if OSC is not activated) shall form, brief and dispatch In-Plant Monitoring Teams when the team is dispatched from the OSC. |                          |    |
| 2.2.1                          | lf tl<br>of t                                                                                                                                                           | he team is dispatched from the HP Control Point, the HP Foreman with<br>he HP Supervisor shall form, brief and dispatch the In-Plant Monitoring                                        | the permission<br>Teams. |    |
| 2.3                            | The<br>Sup                                                                                                                                                              | e In-Plant Monitoring Teams shall conduct sampling and surveys as dire pervisor.                                                                                                       | cted by the HP           |    |
| 3.0                            | <u>PR</u>                                                                                                                                                               | EREQUISITES                                                                                                                                                                            |                          |    |
| 3.1                            | An<br>An                                                                                                                                                                | emergency has been classified per Procedure 91001-C, "Emergency d Implementing Instructions".                                                                                          | Classification           | L  |
| 3.2                            | The                                                                                                                                                                     | e HP Supervisor has directed that in-plant sampling and survey activity b                                                                                                              | be initiated.            |    |
| 4.0                            | <u>PR</u>                                                                                                                                                               | ECAUTIONS                                                                                                                                                                              |                          |    |
|                                | Em<br>ED                                                                                                                                                                | nergency radiation exposures in excess of 10CFR20 limits shall be autorial in accordance with Procedure 91301-C, "Emergency Exposure Guideling)                                        | thorized by the<br>nes". | •  |
|                                |                                                                                                                                                                         |                                                                                                                                                                                        |                          |    |
|                                |                                                                                                                                                                         |                                                                                                                                                                                        |                          |    |

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| Approved By   |  |  |  |  |  |
|---------------|--|--|--|--|--|
| J. T. Gasser  |  |  |  |  |  |
| Date Approved |  |  |  |  |  |
| 04/12/2002    |  |  |  |  |  |

## Vogtle Electric Generating Plant

#### **IN-PLANT SAMPLING AND SURVEYS**

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#### NOTE

For the purposes of this procedure, in-plant areas shall be considered those areas that are within the radiologically - controlled areas and shall be the responsibility of the HP Supervisor. All other areas within the protected area may be surveyed by in-plant teams or field monitoring teams. Field monitoring is the responsibility of the Dose Assessment Manager in the Emergency Operations Facility (EOF) (once it is activated).

#### 5.0 **PROCEDURE**

#### 5.1 TEAM FORMATION

- 5.1.1 The OSC Manager (or HP Foreman, if OSC not activated or the HP Foreman at the HP Control Point) shall form teams consisting of at least two qualified Radiological Emergency Team (RET) members each. At least one member of the team shall be an HP Technician and shall be qualified to ANSI 18.1-1971. One of the team members shall be appointed Team Leader.
- 5.1.2 The team shall report to the HP Supervisor at the HP Control Point or OSC for a briefing.
- 5.1.3 Monitoring teams shall perform In-Plant Monitoring in accordance with Plant Health Physics Procedures. The In-Plant Monitoring Team Checklist may be used as a guide for these activities.
- 5.1.3.1 While performing sampling and survey activities, the Team Leader shall contact the HP or OSC Communicator at least every 30 minutes for transmittal of radiation data and personnel exposure. The TSC Communicator will monitor transmissions and report appropriate information to the HP Supervisor (TSC).

#### 5.2 **REPORTING SURVEY RESULTS**

- 5.2.1 Personnel in the counting room shall analyze in-plant samples such as effluent and air samples using a gamma spectrometer whenever possible, document all results in accordance with standard laboratory procedures and provide results to HP supervision.
- 5.2.2 Results, which indicate abnormally high amounts of radioactivity, shall be communicated immediately to HP supervision before providing documented results, as time may be critical in these instances.

| Approved By<br>J. T. Gasser | Vogtle Electric Generating Plant                                                                                                             | Procedure Number Rev<br>91302-C 10 |  |  |
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| Date Approved 04/12/2002    | Page Number<br>3 of 7                                                                                                                        |                                    |  |  |
| 6.0                         | REFERENCES                                                                                                                                   |                                    |  |  |
| 6.1                         | VEGP EMERGENCY PLAN                                                                                                                          |                                    |  |  |
| 6.2                         | PROCEDURES                                                                                                                                   |                                    |  |  |
| 6.2.1                       | 91001-C, "Emergency Classification And Implementing Instructions"                                                                            |                                    |  |  |
| 6.2.2                       | 91301-C, "Emergency Exposure Guidelines"                                                                                                     |                                    |  |  |
| 6.3                         | NUREG-0654, FEMA-REP-1, "Criteria for Preparation and Evaluation of<br>Emergency Response Plans and Preparedness in Support of Nuclear Power | of Radiological<br>Plants"         |  |  |
| 6.4                         | Title 10 Code of Federal Regulations Part 20, "Standards for Protection Against Radiation"                                                   |                                    |  |  |
| 6.5                         | ANSI/ANS-18.1, "Standard For Selection and Training Personnel for 1<br>Plants"                                                               | Nuclear Power                      |  |  |
|                             | END OF PROCEDURE TEXT                                                                                                                        |                                    |  |  |
|                             |                                                                                                                                              |                                    |  |  |
|                             |                                                                                                                                              |                                    |  |  |

| Approved By<br>J. T. Gasser |                            | Vogtle Electric Generating Plant                                                                                                                                                                                                                                                     | Procedure Number<br>91302-C                        | Rev<br>10 |
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| Date Approved               | II                         | -PLANT SAMPLING AND SURVEYS                                                                                                                                                                                                                                                          | Page Number<br>4 of                                | 7         |
| 04/12/2002                  | IN·                        | PLANT MONITORING TEAM CHECKLIST                                                                                                                                                                                                                                                      | Sheet 1                                            | of 4      |
| POSITION FI                 | LLED BY:                   | At least one Health Physics Technician and one other RE                                                                                                                                                                                                                              | ET member.                                         |           |
| <u>RESPONSIBI</u>           | LITY:                      | Perform in-plant sampling and surveys.                                                                                                                                                                                                                                               |                                                    |           |
|                             |                            | NOTE                                                                                                                                                                                                                                                                                 |                                                    |           |
|                             | Time c<br>a radio          | ritical actions (i.e. actions that would contribute to the term logical release) must be given priority.                                                                                                                                                                             | ination of                                         |           |
| <u>IMMEDIATE</u>            | <b>ACTIONS</b>             |                                                                                                                                                                                                                                                                                      |                                                    |           |
| 1. O                        | btain briefing             | g from HP supervision.                                                                                                                                                                                                                                                               |                                                    |           |
| Т                           | his briefing s             | hould include the following:                                                                                                                                                                                                                                                         |                                                    |           |
|                             |                            | NOTE                                                                                                                                                                                                                                                                                 |                                                    |           |
|                             | a.                         | The first letter of the Emergency Response Facility that the<br>dispatched from should precede the team number. (i.e. "T-<br>first team dispatched from the TSC or "O-1" for the<br>dispatched from the OSC). Teams are to maintain the sat<br>throughout the task assigned to them. | ne team is<br>1" for the<br>first team<br>ame name |           |
|                             | b.                         | All teams dispatched from the HPCP are to be considered of<br>from the TSC and will receive the next available team nur<br>the TSC HP Supervisor.                                                                                                                                    | lispatched<br>nber from                            |           |
| Т                           | eam number.                |                                                                                                                                                                                                                                                                                      |                                                    |           |
| С                           | urrent radiat              | ion levels for areas of concern.                                                                                                                                                                                                                                                     |                                                    |           |
| R                           | esults from a              | ny preliminary in-plant surveys.                                                                                                                                                                                                                                                     |                                                    |           |
| Cu                          | ngoing accient             | dent related conditions or events (e.g., unchecked leaks, es of high radiation, if known).                                                                                                                                                                                           | steam leaks, or                                    | ſ         |
| s                           | pecific locati             | ons where sampling and monitoring is to be performed.                                                                                                                                                                                                                                |                                                    |           |
| 2. L<br>P                   | og onto pro<br>ermit (ERW) | per Radiation Work Permit (RWP) and/or Emergency H<br>P) (if appropriate) as time permits.                                                                                                                                                                                           | Radiation Work                                     | 2         |
|                             |                            |                                                                                                                                                                                                                                                                                      |                                                    |           |

| Ap  | prove | ed By  |    |
|-----|-------|--------|----|
| J.  | T.    | Gass   | er |
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# Vogtle Electric Generating Plant

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#### **IN-PLANT MONITORING TEAM CHECKLIST**

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#### **IMMEDIATE ACTIONS, CON'T.**

- 3. Obtain emergency survey kit, radiation monitoring instruments and/or necessary equipment (i.e., keys, etc.).
- 4. Prepare equipment and supplies.
- 5. Perform visual inspection, check batteries and verify source check has been completed or perform source check tests on survey meters and operational checks on portable radios.
- 6. Determine entry and exit routes if different from standard procedures.
- 7. List survey points on survey map.
- 8. Number all smears and include extra smears.
- 9. Don necessary protective clothing and respiratory equipment.
- 10. Obtain dosimetry including TLD and direct-reading dosimeter capable of monitoring the highest exposure expected.

#### SUBSEQUENT ACTIONS

- 1. Conduct sampling and surveys as directed for the following in accordance with plant Health Physics Procedures:
  - a. Radioiodine and air particulate samples
  - b. General area radiation surveys
  - c. Surface contamination surveys
- 2. Check self-reading dosimeters every 15 to 30 minutes.
- 3. The team leader shall maintain communications at least every 30 minutes with the HP or OSC Communicator to transmit radiation data, personnel exposure and other information via portable radio, telephone or plant page.

| Approved By                 |                                                                                                                                                                                                                                                                                 | Vogtle Electric Generating Plant                                                                                                                                                                          | Procedure Number<br>91302-C | Rev<br>10 |  |  |  |
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| Date Approved<br>04/12/2002 |                                                                                                                                                                                                                                                                                 | IN-PLANT SAMPLING AND SURVEYS                                                                                                                                                                             | Page Number<br>6 of         | 7         |  |  |  |
|                             |                                                                                                                                                                                                                                                                                 | IN-PLANT MONITORING TEAM CHECKLIST                                                                                                                                                                        | Sheet 3                     | of 4      |  |  |  |
| <u>SUBSEQUE</u>             | ENT .                                                                                                                                                                                                                                                                           | ACTIONS, CONT.                                                                                                                                                                                            |                             |           |  |  |  |
|                             |                                                                                                                                                                                                                                                                                 | Air Sampling                                                                                                                                                                                              |                             |           |  |  |  |
| 1.                          | Pro-<br>met                                                                                                                                                                                                                                                                     | Proceed to sampling locations as directed by the HP Supervisor. Use a portable survey meter to note exposure levels along routes.                                                                         |                             |           |  |  |  |
| 2.                          | Ensure that Silver Zeolite (AgX) or charcoal cartridges are used with the air sampler as appropriate or per Health Physics Supervision. A standard particulate filter shall be placed upstream from the AgX or charcoal cartridge in order to remove particulates from the air. |                                                                                                                                                                                                           |                             |           |  |  |  |
| 3.                          | The<br>stan                                                                                                                                                                                                                                                                     | HP Supervisor shall specify flow rate and sampling duration if or idard procedures.                                                                                                                       | different from              |           |  |  |  |
| 4.                          | Fris<br>prio                                                                                                                                                                                                                                                                    | k samples and transport to the counting room for analysis. Inform I or to transporting samples reading greater than 20 mRem/hr on contact.                                                                | HP Supervisor               |           |  |  |  |
|                             |                                                                                                                                                                                                                                                                                 | NOTE                                                                                                                                                                                                      |                             |           |  |  |  |
|                             |                                                                                                                                                                                                                                                                                 | Locked doors or flashing lights shall be utilized for samples<br>produce a whole body dose rate of greater than or equal to 1000 m<br>Area posting shall be in accordance with Health Physics procedures. | that can<br>nRem/hr.        |           |  |  |  |
| 5.                          | If th<br>are:                                                                                                                                                                                                                                                                   | e HP and Chemistry counting rooms are unusable, alternate facilities to                                                                                                                                   | be considered               |           |  |  |  |
|                             | a.                                                                                                                                                                                                                                                                              | VEGP Training Center                                                                                                                                                                                      |                             |           |  |  |  |
|                             | b.                                                                                                                                                                                                                                                                              | Hatch Nuclear Plant                                                                                                                                                                                       |                             |           |  |  |  |
|                             | c.                                                                                                                                                                                                                                                                              | Savannah River Site                                                                                                                                                                                       |                             |           |  |  |  |
|                             |                                                                                                                                                                                                                                                                                 | <b>General Area Radiation Surveys</b>                                                                                                                                                                     |                             |           |  |  |  |
| 1.                          | Pro                                                                                                                                                                                                                                                                             | ceed to sampling locations as directed by the HP Supervisor.                                                                                                                                              |                             |           |  |  |  |
| 2.                          | While enroute to survey locations, keep the instrument on with the meter set to scale which permits an upscale reading. Change the scale up or down as necessary.                                                                                                               |                                                                                                                                                                                                           |                             |           |  |  |  |
|                             |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                           |                             |           |  |  |  |

| Approved By<br>J. T. Gasser |              | Vogtle Electric Generating Plant                                                                                                                   | Procedure Number<br>91302-C | Rev<br>10 |
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| Date Approved 04/12/2002    |              | IN-PLANT SAMPLING AND SURVEYS                                                                                                                      | Page Number<br>7 of '       | 7         |
|                             |              | IN-PLANT MONITORING TEAM CHECKLIST                                                                                                                 | Sheet 4                     | of 4      |
| <u>SUBSEQUI</u>             | ENT .        | ACTIONS, CONT.                                                                                                                                     |                             |           |
|                             |              | CAUTION                                                                                                                                            |                             |           |
|                             |              | Any unexpected in-plant readings of 10 rem/h or greater shall be immediately to the HP Supervisor.                                                 | reported                    |           |
| 3.                          | Obt<br>supe  | ain radiation measurements at survey locations. Take beta readings, as c<br>ervision, and document results on standard Health Physics Survey Forms | directed by HP<br>s.        |           |
| 4.                          | Whe          | en surveys are complete, report back to HP supervision with the results.                                                                           |                             | -         |
|                             |              | Surface Contamination Surveys                                                                                                                      |                             |           |
| 1.                          | Proc<br>to n | ceed to sampling location as directed by HP supervision. Use a portable ote exposure levels along routes.                                          | e survey meter              |           |
| 2.                          | Obta         | ain smear samples as directed at survey locations.                                                                                                 |                             |           |
| 3.                          | Cou          | ant the smear samples in a low dose area and record results.                                                                                       |                             |           |
| 4.                          | Whe          | en surveys are complete, report back to HP supervision.                                                                                            |                             |           |
|                             |              | <b>Reporting Survey Results</b>                                                                                                                    |                             |           |
| 1.                          | Incl         | ude preliminary survey results in all briefings.                                                                                                   |                             |           |
| 2.                          | Sub          | mit all records to HP Supervisor.                                                                                                                  |                             |           |
|                             |              | <b>Final Condition</b>                                                                                                                             |                             |           |
| 1.                          | Con          | duct contamination survey of all team members.                                                                                                     |                             |           |
| 2.                          | Hole         | d final team briefing with appropriate HP supervision prior to disbandin                                                                           | g team.                     |           |
|                             |              |                                                                                                                                                    |                             |           |
|                             |              |                                                                                                                                                    |                             |           |

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| Approved By                              | Vogtle Electric Generating Plant                                                                                                                                                                                                                                   | Procedure Number Rev<br>91304-C 14                   |  |  |  |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--|--|--|
| Date Approved<br>04/12/2002              | ESTIMATING OFFSITE DOSE                                                                                                                                                                                                                                            | Page Number<br>1 of 20                               |  |  |  |
| REFERENCE USE PROCEDURE PRB REVIEW REQUI |                                                                                                                                                                                                                                                                    |                                                      |  |  |  |
| 1.0                                      | PURPOSE                                                                                                                                                                                                                                                            |                                                      |  |  |  |
|                                          | The purpose of this procedure is to provide instructions for estimating offsit                                                                                                                                                                                     | te doses.                                            |  |  |  |
| 2.0                                      | RESPONSIBILITIES                                                                                                                                                                                                                                                   |                                                      |  |  |  |
| 2.1                                      | The Emergency Director shall initially be responsible to ensure that calculations are performed.                                                                                                                                                                   | t offsite dose                                       |  |  |  |
| 2.2                                      | The Health Physics/Chemistry (HP/Chem) Shared Foreman is the desig dose analyst.                                                                                                                                                                                   | mated on-shift                                       |  |  |  |
| 2.3                                      | The HP Supervisor shall assume the responsibility for determining release rates and performing offsite dose calculations from the time the Technical Support Center (TSC) is activated until the Emergency Operations Facility (EOF) Dose Assessment is activated. |                                                      |  |  |  |
| 2.4                                      | The Dose Assessment Manager shall assume the responsibility for offsite dose calculations from the time the EOF Dose Assessment is activated until the need for dose assessment is no longer required.                                                             |                                                      |  |  |  |
| 3.0                                      | <u>PREREQUISITES</u>                                                                                                                                                                                                                                               |                                                      |  |  |  |
| 3.1                                      | An actual release of airborne radioactive material has occurred or a projec<br>become a possibility because of an emergency condition.                                                                                                                             | ted release has                                      |  |  |  |
| 4.0                                      | PRECAUTIONS                                                                                                                                                                                                                                                        |                                                      |  |  |  |
| 4.1                                      | Iodine release rate factors of this procedure were developed based of<br>assumptions. Whenever available, sampling, survey and/or fixed io<br>evaluation results should be utilized to refine these values or as a direct in<br>release rate(s).                   | on engineering<br>odine cartridge<br>nput for iodine |  |  |  |
| 4.2                                      | The accuracy and representatives of the radiological and meteorological accuracy of atmospheric dispersion calculations are such that no m significant figures should be used in the final results.                                                                | l data and the<br>nore than two                      |  |  |  |
| 4.3                                      | The dose rates estimated using this procedure are based on conservative<br>and radiological assumptions and may result in an overestimation of the<br>dose rates. Verification by field monitoring teams should be obtain<br>practicable.                          | meteorological<br>e actual offsite<br>ed as soon as  |  |  |  |

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| Approved By<br>J. T. Gasser |                                      | Vogtle Electric Generating Plant 🛕                                                                                                                                                                                                                                                                                                                       | Procedure Number<br>91304-C                                           | Rev<br>14 |  |  |  |  |
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| 5.0                         | PR                                   | OCEDURE                                                                                                                                                                                                                                                                                                                                                  |                                                                       |           |  |  |  |  |
| 5.1                         | CO                                   | MPUTER DOSE CALCULATIONS                                                                                                                                                                                                                                                                                                                                 |                                                                       |           |  |  |  |  |
| 5.1.1                       | The<br>logi                          | The Dose Assessment Manager shall assign an individual to collect and record meteoro-<br>ogical and radiological data at approximate 15-minute intervals using Data Sheet 1.                                                                                                                                                                             |                                                                       |           |  |  |  |  |
|                             |                                      | NOTE                                                                                                                                                                                                                                                                                                                                                     |                                                                       |           |  |  |  |  |
|                             |                                      | a. A radiological release is defined as a radioactive releas<br>environment, detected by effluent monitors or environmonitoring, above normal levels that is attributable to a<br>event. Normal levels are the highest reading in the last 2<br>prior to the emergency, excluding the current peak value for<br>monitors.                                | e to the<br>onmental<br>declared<br>24 hours<br>effluent              |           |  |  |  |  |
|                             |                                      | b. In addition, the Emergency Director has the discretion to dec<br>a radiological release is occurring based on plant conditi<br>would indicate that a release is in progress. (i.e., A Steam C<br>Tube Rupture with an ARV lifting)                                                                                                                    | clare that<br>ions that<br>Generator                                  |           |  |  |  |  |
| 5.1.1.1                     | The<br>calc<br>be 1<br>subs<br>is ch | Dose Assessment Manager shall assign a dose analyst to perform the orbital bulations using the Checklist 1 in this procedure. The initial dose projection made within 15 minutes of the radiological release. Dose Projection sequent to initial calculation shall be performed at least every 30 minute hanging (i.e., meteorological, or source term). | computer dose<br>ections should<br>n Calculations<br>es if input data |           |  |  |  |  |
| 5.1.2                       | The                                  | individual assigned to collect and record meteorological and radiologic                                                                                                                                                                                                                                                                                  | al data shall:                                                        |           |  |  |  |  |
| 5.1.2.1                     | Obt<br>Prec<br>min                   | ain meteorological data (Wind Direction from - to, Wind Speed, Stabi<br>cipitation) from one of the following sources in the priority given below<br>ute averages for meteorological parameters.                                                                                                                                                         | ility Class and<br>w. Obtain 15-                                      |           |  |  |  |  |
|                             | Sou                                  | rces of Meteorological Data:                                                                                                                                                                                                                                                                                                                             |                                                                       |           |  |  |  |  |
|                             | a.                                   | Integrated Plant Computer (IPC)                                                                                                                                                                                                                                                                                                                          |                                                                       |           |  |  |  |  |
|                             |                                      | (1) Primary Met Tower 10 Meters                                                                                                                                                                                                                                                                                                                          |                                                                       |           |  |  |  |  |
|                             |                                      | (2) Secondary Met Tower 10 Meters                                                                                                                                                                                                                                                                                                                        |                                                                       |           |  |  |  |  |
|                             | b.                                   | Send individual to meteorological towers to call back data.                                                                                                                                                                                                                                                                                              |                                                                       |           |  |  |  |  |
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|                             | c.            | Savannah River Site Emergency Operations Center (number ma<br>from VEGP Emergency Response Telephone Directory)                                                                                                                                                          | y be obtained                                     |           |
|                             | d.            | National Weather Service (NWS) (Columbia, S.C.) - wind sp<br>direction (NWS number may be obtained from VEGP Emerge<br>Telephone Directory).                                                                                                                             | eed and wind<br>ency Response                     | ;         |
|                             |               | NOTE                                                                                                                                                                                                                                                                     |                                                   |           |
|                             |               | Obtain HP Supervisor or Dose Assessment Manager approval prior defaults.                                                                                                                                                                                                 | to using                                          |           |
|                             | e.            | Use Sigma Theta Table, Table 1 to obtain stability class if the com class and delta Temperature data are not available.                                                                                                                                                  | puted stability                                   | r         |
|                             | f.            | Default meteorology:<br>wind speed = 5.4 mph<br>wind direction = no predominant direction<br>stability class = E<br>estimate precipitation = None - 0, Light - L, Medium - M, Heavy -                                                                                    | Н                                                 |           |
| 5.1.2.2                     | Obta<br>com:  | ain weather forecast information from National Weather Service in Col<br>mercial telephone.                                                                                                                                                                              | umbia, S.C. by                                    | 7         |
| 5.1.2.3                     | In th<br>dose | the event that significant wind speed or stability class changes are exp<br>e assessment calculation utilizing both current and forecast parameters.                                                                                                                     | ected, perform                                    | L         |
| 5.1.2.4                     | Obta<br>prior | ain radiological and effluent release data from one of the following rity given below.                                                                                                                                                                                   | sources in the                                    | ;         |
|                             |               | NOTE                                                                                                                                                                                                                                                                     |                                                   |           |
|                             |               | Plant Vent Flow Transmitter FT-12835 (Point ID F5106) is sequalified and can be used as an alternate for the Plant Vent Sour Flow Rate during the occurrence of a seismic event. There are r indications for FT-12835 and can only be obtained via the Integra Computer. | eismically<br>rce Term<br>no remote<br>ated Plant |           |
|                             | Sou           | rces of Radiological and effluent release rate data:                                                                                                                                                                                                                     |                                                   |           |
|                             | a.            | IPC                                                                                                                                                                                                                                                                      |                                                   |           |
|                             | b.            | PDC (PERMS Display Console)                                                                                                                                                                                                                                              |                                                   |           |

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|                             | c. Safety Related Display Cabinet (Status Loop Communicator in the C |                                                                                                    |                                      |                             |           |  |  |  |
|                             |                                                                      | NOTE                                                                                               |                                      |                             |           |  |  |  |
|                             |                                                                      | Chemistry personnel are to ensure that proper cha<br>Data Processing Module (PERMS) remote indicat | nnels are displaye<br>or before use. | ed on the                   |           |  |  |  |
|                             | d.                                                                   | Data Processing Module (PERMS)                                                                     |                                      |                             |           |  |  |  |
|                             | e.                                                                   | Direct measurement of effluent path with a portab                                                  | le instrument.                       |                             |           |  |  |  |
|                             | f.                                                                   | Default values in COMPUTER CODE.                                                                   |                                      |                             |           |  |  |  |
| 5.1.2.5                     | Obt<br>the ]                                                         | ain effluent flow rates from the IPC or default flow :<br>IPC is not available:                    | rates from the foll                  | owing table if              |           |  |  |  |
|                             |                                                                      | RELEASE POINT                                                                                      | DEFAULT FLA<br>(CFM                  | OW RATE<br>I)               |           |  |  |  |
|                             |                                                                      |                                                                                                    | er de dre<br>Service                 |                             |           |  |  |  |
|                             | Tu                                                                   | rbine Building Steam Jet Air Ejector                                                               | 9.0 E+2                              |                             |           |  |  |  |
|                             |                                                                      | ntainment Leakage                                                                                  | 3.8                                  |                             |           |  |  |  |
|                             | Ra                                                                   | dwaste Processing Facility                                                                         | 1.7480 E+4                           |                             |           |  |  |  |
|                             | Pla                                                                  | int Vent Stack to Atmosphere                                                                       | Unit 1                               | Unit 2                      |           |  |  |  |
|                             |                                                                      | Normal Flow                                                                                        | 1.4E+5                               | 9.5E+4                      |           |  |  |  |
|                             |                                                                      | FHB Ventilation Isolation                                                                          | 1.2E+5                               | 9.5E+4                      |           |  |  |  |
|                             |                                                                      | Containment Ventilation Isolation                                                                  | 5.0E+4                               | 6.0E+3                      |           |  |  |  |
|                             |                                                                      | U-1 Containment and FHB Ventilation Isolation                                                      | 2.0E+4                               | 9.5E+4                      |           |  |  |  |
|                             |                                                                      | U-1&2 Containment and FHB Ventilation Isolation                                                    | 2.0E+4                               | 6.0E+3                      |           |  |  |  |
|                             |                                                                      |                                                                                                    |                                      |                             |           |  |  |  |
|                             |                                                                      |                                                                                                    |                                      |                             |           |  |  |  |
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|                             |              | <u> </u>                                             |                                                                                                                                                                                                                                             |                                               |           |  |  |  |  |
|                             | ,            |                                                      | NOTES                                                                                                                                                                                                                                       |                                               |           |  |  |  |  |
|                             |              | a.                                                   | The default release duration (remaining duration) will be u-<br>time MIDAS is run until Operations/Plant Management sp<br>tells dose assessment personnel that the release will be<br>within a specific time frame.                         | sed every<br>ecifically<br>stopped            |           |  |  |  |  |
|                             |              | b.                                                   | Contact the Emergency Director (Shift Superintendent before<br>activation) or TSC Operations Supervisor to determine if the<br>Steam Generator is faulted.                                                                                  | re facility<br>e affected                     |           |  |  |  |  |
|                             |              | c.                                                   | The 1-hour default release duration for a non-faulte<br>Generator Tube Rupture (SGTR) is only to be used during<br>hour of the release. If the release has not been stopped w<br>first hour, then a 4-hour release duration should be used. | d Steam<br>g the first<br>vithin the          |           |  |  |  |  |
| 5.1.2.6                     | If a<br>dura | n estimate<br>ations.                                | of release duration cannot be determined, use the following                                                                                                                                                                                 | default release                               |           |  |  |  |  |
|                             | a.           | 1 hour                                               | for a non-faulted Steam Generator Tube Rupture (SGTR)                                                                                                                                                                                       |                                               |           |  |  |  |  |
|                             | b.           | b. 4 hours for any other Design Based Accident (DBA) |                                                                                                                                                                                                                                             |                                               |           |  |  |  |  |
|                             |              | NOTE                                                 |                                                                                                                                                                                                                                             |                                               |           |  |  |  |  |
|                             |              | When<br>point<br>limits<br>questic<br>limits.        | the "High Alarm" set point is reached or exceeded on the gaseous effluent monitors (RE-12839C or RE-12444C), the are being exceeded. Contact Chemistry department if you ons when determining if the plant is above or below normal         | ne release<br>e ODCM<br>have any<br>operating |           |  |  |  |  |
| 5.1.2.7                     | Wh<br>for    | en comple<br>n, refer to                             | eting items 10 through 15 on the Emergency Notification N<br>Checklist 2 of this procedure.                                                                                                                                                 | letwork (ENN)                                 | •         |  |  |  |  |
|                             |              |                                                      |                                                                                                                                                                                                                                             |                                               |           |  |  |  |  |
|                             |              |                                                      |                                                                                                                                                                                                                                             |                                               |           |  |  |  |  |
|                             |              |                                                      |                                                                                                                                                                                                                                             |                                               |           |  |  |  |  |
|                             |              |                                                      |                                                                                                                                                                                                                                             |                                               |           |  |  |  |  |
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| 5.2                         | тн                                              | YROID DOSE FROM FIELD DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                            |           |  |  |  |  |  |
| 5.2.1                       | Wh<br>Ass                                       | When air sample data is available from field measurements, and as directed by the Dose<br>Assessment Manager or his designee, perform the following activities:                                                                                                                                                                                                                                                                                                                                       |                                                                                                            |           |  |  |  |  |  |
| 5.2.1.1                     | Obt<br>the<br>2 of                              | Obtain the <u>net</u> cpm data on the silver Zeolite (AgZ) or charcoal cartridge as reported by he field team to the Monitoring Team Communicator. This information is on Data Sheet of Procedure 91303-C, "Field Sampling And Surveys".                                                                                                                                                                                                                                                              |                                                                                                            |           |  |  |  |  |  |
| 5.2.1.2                     | Obt                                             | ain the sample volume, in liters, for the sample specified in the precedin                                                                                                                                                                                                                                                                                                                                                                                                                            | g step.                                                                                                    |           |  |  |  |  |  |
| 5.2.1.3                     | Cal                                             | culate the thyroid dose rate in Worksheet 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |           |  |  |  |  |  |
| 5.2.2                       | Rep<br>may<br>(FN                               | oort the result obtained in Worksheet 1 to the Dose Assessment Manag<br>y be compared to the field monitoring dose rate calculated by the MII<br>4 Iodine Dose Rate Plot)                                                                                                                                                                                                                                                                                                                             | er. The results<br>DAS program.                                                                            |           |  |  |  |  |  |
| 5.3                         | AN                                              | ALYSIS OF FIELD MONITORING SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                            |           |  |  |  |  |  |
| 5.3.1                       | Upo<br>sho <sup>s</sup><br>sub:                 | on return of field teams to the vicinity of the EOF, the Dose Assess<br>uld ensure that the air and other samples (soil, vegetation and water) ar<br>sequent analysis.                                                                                                                                                                                                                                                                                                                                | ment Manager<br>re collected for                                                                           |           |  |  |  |  |  |
| 5.3.2                       | Per                                             | form gamma spectroscopy analysis on the samples and record results.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                            |           |  |  |  |  |  |
| 5.3.3                       | Call<br>1 b<br>Iodi<br>Fac<br>fror<br>Ma<br>the | culate the thyroid dose rate from the air sample results in accordance we<br>y obtaining, from Chemistry, the isotopic concentration ( $\mu$ Ci/cc) of<br>ine isotope from the gamma spectroscopy and multiplying it by the Do-<br>tor (mRem/hr/ $\mu$ Ci/cc). To find the Thyroid CDE Dose Rate, simply ad<br>m the Base Rate Column (mRem/hr). Report the results to the Dose<br>nager. The results may be compared to the field monitoring dose rate<br>MIDAS program. (FM Iodine Dose Rate Plot). | with Worksheet<br>each pertinent<br>ose Conversion<br>ld up the totals<br>se Assessment<br>e calculated by |           |  |  |  |  |  |

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| 5.4                         | FIEL                                                                     | MONITORING READING                                                                                                                                                                                                                                         | GS                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |
|                             |                                                                          |                                                                                                                                                                                                                                                            | NOTE                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                |
|                             |                                                                          | a. When performing a bandle of MIDAS software proplume centerline. The and input into the Mirected by the dose a                                                                                                                                           | ack calculation, using field-monitoring<br>gram assumes the dose rate is measur<br>e centerline radiation levels should be<br>MIDAS back calculation (using Figu<br>ssessment manager.                                                                                                                                                 | data, the<br>red at the<br>measured<br>re 3), as                                                                               |
|                             |                                                                          | b. When performing a readings from low-lev conversion factor will                                                                                                                                                                                          | back calculation, using field-monitor<br>vel radioactive plumes, a (3000 cpm/1.<br>be used to convert count rate to dose r                                                                                                                                                                                                             | ring data<br>0 mR/hr)<br>rate.                                                                                                 |
| 5.4.1                       | Field<br>the of<br>appro-<br>source<br>to the<br>on ho<br>dose<br>exerce | onitoring measurements are in<br>vironment. The dose assist<br>mation of radiation levels a<br>term and meteorological cond<br>naccuracies of projected dose<br>to use field monitoring data<br>sessment computer code. The<br>professional judgment in de | mportant in determining the actual rad<br>ressment computer code provides<br>and location of the plume. The uncer-<br>ditions in the affected areas are the chi<br>e and dose rate. There is no widely ac-<br>a to reduce the uncertainties and inac-<br>ne Dose Assessment Manager or HP S<br>termining the proper correction factors | iation levels in<br>only a rough<br>rtainties in the<br>ef contributors<br>cepted formula<br>curacies in the<br>upervisor must |
| 5.4.2                       | The f                                                                    | lowing are some examples or sessment:                                                                                                                                                                                                                      | f situations that require a back calculat                                                                                                                                                                                                                                                                                              | tion to perform                                                                                                                |
|                             | a.                                                                       | Unmonitored releases                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                |
|                             |                                                                          | (1). SGTR releasing out t<br>leak rate cannot be de                                                                                                                                                                                                        | he ARV/Code Safeties/Terry Turbine termined (section 5.5.1.a).                                                                                                                                                                                                                                                                         | where the RCS                                                                                                                  |
|                             |                                                                          | (2) Accidents which invo<br>shipment (i. e. transpo                                                                                                                                                                                                        | olve a release from an onsite radioactiv<br>ort vehicle with HIC).                                                                                                                                                                                                                                                                     | e material                                                                                                                     |
|                             |                                                                          | (3) Release path effluent<br>out of service with a p                                                                                                                                                                                                       | t monitor (i. e. RE-12444, RE-12839<br>release in progress.                                                                                                                                                                                                                                                                            | , RE-16980) is                                                                                                                 |
|                             | b.                                                                       | When requested by the Dose                                                                                                                                                                                                                                 | Assessment Manager.                                                                                                                                                                                                                                                                                                                    |                                                                                                                                |
|                             |                                                                          |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                |

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| 5.5                         | SGI                                                                                                                                                            | R/LEAK QUICK DO                                                   | SE ASSESSMENT FO                                                                                   | R UNMONITORED I                                                              | RELEASES                            |           |  |  |  |
|                             |                                                                                                                                                                |                                                                   | NOTE                                                                                               |                                                                              |                                     |           |  |  |  |
|                             |                                                                                                                                                                | a. Chemistry m<br>sample unles<br>pressure.                       | ay not be able to obtain<br>as affected unit is at no                                              | a RCS Total Gaseous rmal operating tempera                                   | Activity<br>ature and               |           |  |  |  |
|                             |                                                                                                                                                                | b. Trend monit<br>gallons per d<br>to obtain gall                 | ors RE-724 or RE-810<br>lay (GPD). GPD must l<br>lons per minute (GPM)                             | to determine RCS lea<br>be divided by 1440 mir                               | k rate in<br>nutes/day              |           |  |  |  |
|                             |                                                                                                                                                                | c. If the RCS le<br>or cannot b<br>should be to<br>calculation (s | eak rate is greater than or<br>e determined due to p<br>o obtain field monitoring<br>section 5.4). | equal to 500 gallons per<br>plant conditions, then<br>ng data for performing | er minute<br>priorities<br>g a back |           |  |  |  |
| 5.5.1                       | A quick dose assessment for a SGTR/leak which results in a release to the environment may be performed using this section when the following conditions exist: |                                                                   |                                                                                                    |                                                                              |                                     |           |  |  |  |
|                             | a. The RCS leak rate as a result of the rupture/leak is less than 500 GPM.                                                                                     |                                                                   |                                                                                                    |                                                                              |                                     |           |  |  |  |
|                             | b.                                                                                                                                                             | The release to the a water exhaust, ARV                           | atmosphere is not moni<br>cycling or stuck open S                                                  | tored (i.e. Turbine Driv<br>/G Code Safety valve).                           | ven Aux. Feed                       | l         |  |  |  |
| 5.5.2                       | Using the most recent RCS chemistry sample, determine the Off Site Dose as follows:                                                                            |                                                                   |                                                                                                    |                                                                              |                                     |           |  |  |  |
|                             | R                                                                                                                                                              | CS Total Gas Activity<br>(UCi/cc)                                 | Above or Below<br>ODCM Limits                                                                      | Off Site Dose<br>TEDE and Thyroid                                            | CDE                                 |           |  |  |  |
|                             |                                                                                                                                                                | $\leq 10 \text{ E} - 01$                                          | Below                                                                                              | < .02 mRem                                                                   |                                     |           |  |  |  |
|                             |                                                                                                                                                                | $>1.0 E - 01$ but $\leq 1.0$                                      | Above                                                                                              | < 0.1 mRem                                                                   |                                     |           |  |  |  |
|                             |                                                                                                                                                                | $> 1.0 \text{ but } \le 10$                                       | Above                                                                                              | < 1.0 mRem                                                                   |                                     |           |  |  |  |
|                             |                                                                                                                                                                | > 10                                                              | Above                                                                                              | see 5.5.2.1 for OD                                                           | A                                   |           |  |  |  |
| 5.5.2.1                     | If the RCS gaseous activity is greater than 10 micro curies per cc, a dose assessment should be performed as follows:                                          |                                                                   |                                                                                                    |                                                                              |                                     |           |  |  |  |
|                             |                                                                                                                                                                | curies per cc for mo                                              | nitor RE-12839C.                                                                                   | -                                                                            |                                     |           |  |  |  |
|                             | b.                                                                                                                                                             | Determine the releat 0.13, and enter this                         | se rate in CFM by mult<br>value for RE-12839 flow                                                  | tiplying the RCS leak r<br>v.                                                | ate in GPM by                       | 1         |  |  |  |
|                             | c.                                                                                                                                                             | Use accident type S                                               | GTR, appropriate releas                                                                            | e duration and real mete                                                     | eorology.                           |           |  |  |  |

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| 6.0                         | REFERENCES                                                                                                                                  |                                                                                                                                                                    |           |  |  |  |  |  |  |
| 6.1                         | VEGP EMERGENCY PLAN                                                                                                                         |                                                                                                                                                                    |           |  |  |  |  |  |  |
| 6.2                         | PROCEDURES                                                                                                                                  |                                                                                                                                                                    |           |  |  |  |  |  |  |
| 6.2.1                       | 91001-C, "Emergency Classifications And Implementing Instructions                                                                           | "                                                                                                                                                                  |           |  |  |  |  |  |  |
| 6.2.2                       | 91002-C "Emergency Notifications"                                                                                                           |                                                                                                                                                                    |           |  |  |  |  |  |  |
| 6.2.3                       | 91303-C, "Field Sampling And Surveys"                                                                                                       |                                                                                                                                                                    |           |  |  |  |  |  |  |
| 6.2.4                       | 91305-C, "Protective Action Guidelines"                                                                                                     |                                                                                                                                                                    |           |  |  |  |  |  |  |
| 6.3                         | VEGP FSAR, Section 11.5.5, Post-Accident Radiation Monitoring.                                                                              |                                                                                                                                                                    |           |  |  |  |  |  |  |
| 6.4                         | VEGP FSAR, Section 2.3.4, Short Term Diffusion Estimates.                                                                                   | VEGP FSAR, Section 2.3.4, Short Term Diffusion Estimates.                                                                                                          |           |  |  |  |  |  |  |
| 6.5                         | VEGP Offsite Dose Calculation Manual.                                                                                                       |                                                                                                                                                                    |           |  |  |  |  |  |  |
| 6.6                         | NUREG/CR-3011, "Dose Projection Considerations for Emergency Nuclear Power Plants", 1983.                                                   | UREG/CR-3011, "Dose Projection Considerations for Emergency Conditions at Juclear Power Plants", 1983.                                                             |           |  |  |  |  |  |  |
| 6.7                         | Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Rout<br>Reactor Effluents for the Purpose of Evaluating Compliance with 10 | egulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of eactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, |           |  |  |  |  |  |  |

#### END OF PROCEDURE TEXT

Appendix I, Revision 1, 1977.

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| Approved By<br>J. T. Gasser<br>Date Approved |                          | Vogtle Ele                                 | ctric Gen                | erating Plant                           | <b>\$</b>    | Procedure Number Rev<br>91304-C 14<br>Page Number |
|----------------------------------------------|--------------------------|--------------------------------------------|--------------------------|-----------------------------------------|--------------|---------------------------------------------------|
| 04/12/2002                                   |                          | ESTINL                                     |                          | JFF5ITE DOS                             | <u>له</u>    | 10 of 20                                          |
|                                              |                          | W                                          | ORKSHE                   | <u>ET NO. 1</u> .                       |              | Sheet I of I                                      |
|                                              |                          | <u>THYI</u><br>FROM FIJ                    | ROID DOS<br>ELD MON      | <u>E RATE (D)</u><br>ITORING DATA       |              |                                                   |
| Sample No                                    | 7                        | Time of Sample                             |                          | Date                                    | Location     | n                                                 |
| <b>A.</b> ]                                  | FIELD D                  | ATA                                        |                          |                                         |              |                                                   |
|                                              | 1. Total                 | volume of air sam                          | pled (V):                |                                         |              | _ liters                                          |
| :                                            | 2. <u>Net</u> c<br>(Data | pm (Iodine) above<br>Sheet 2 of Proced     | background<br>ure 91303- | 1 ( <i>N</i> ):<br>C)                   |              | _ cpm                                             |
| <b>B.</b> (                                  | Thyroid C<br>Use appro   | DE dose rate $(D)$ :<br>opriate expression | below to ca              | lculate)                                | <u></u>      | mRem/hr                                           |
|                                              |                          |                                            |                          | NOTE                                    |              |                                                   |
|                                              |                          | <b>T</b> is time s                         | since reactor            | r shutdown until rele                   | ase occurred |                                                   |
| FOR T                                        | < 24 hr: 1               | $\dot{D} = \frac{N(12)}{V}$                | FOR <b>T</b> >2          | 4 hr: $\dot{D} = \frac{N(65)}{V}$       |              |                                                   |
| SIL                                          | VER ZE                   | DLITE SAMPLE                               | GAMMA<br>DOSE RAT        | SPECTROSCOPY<br>TE DETERMINAT           | RESULTS      | AND                                               |
| Radionuclic                                  | le (                     | Concentration)                             | <b>x</b> (1              | Dose Conversion Factor)                 | = (1         | Dose Rate)                                        |
|                                              |                          | μCi/cc                                     |                          | $\frac{\text{mrem / n}}{\text{µCi/cc}}$ |              | mrem                                              |
|                                              | <u></u>                  | <u></u>                                    |                          | 1 20 E + 0                              |              | <u>n</u>                                          |
| 1-131                                        |                          |                                            | X                        | 1.30E+9                                 |              |                                                   |
| <u>I-132</u>                                 |                          |                                            | X                        | 7.7E+6                                  | =            |                                                   |
| I-133                                        |                          |                                            | X                        | 2.2E+8                                  |              |                                                   |
| <u>I-134</u>                                 |                          |                                            | x                        | 1.3E+6                                  |              |                                                   |
| I-135                                        |                          |                                            | X                        | 3.8E+7                                  | <u> </u>     |                                                   |
|                                              |                          | (Thyroid CDE                               | Dose Rate                | $\frac{\text{mrem}}{\text{h}}$          |              |                                                   |
|                                              |                          |                                            |                          |                                         |              |                                                   |

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| Approved By<br>J. T. Gasser | Vogtle Electric Generating Plant |                         |                             |             |  |
|-----------------------------|----------------------------------|-------------------------|-----------------------------|-------------|--|
| Date Approved 04/12/2002    | ESTIMATIN                        | Page Number<br>11 of 20 |                             |             |  |
|                             | T                                | ABLE 1                  |                             |             |  |
|                             | SIGMA 1                          | HETA 1                  | <u> TABLE</u>               |             |  |
| Atmospher                   | ric Stability by Standard Devia  | tion of H               | orizontal Wind Direction, S | igma Theta  |  |
|                             | SIGMA THETA                      | <u>ST</u>               | ABILITY CLASSIFICAT         | <u>'ION</u> |  |
|                             | (degrees)                        | G                       | Extremely stable            |             |  |
|                             | 2.1 to 3.8                       | F                       | Moderately stable           |             |  |
|                             | 3.8 to 7.5                       | E                       | Slightly stable             |             |  |
|                             | 7.5 to 12.5                      | D                       | Neutral                     |             |  |
|                             | 12.5 to 17.5                     | С                       | Slightly unstable           |             |  |
|                             | 17.5 to 22.5                     | В                       | Moderately unstable         |             |  |
|                             | ≥ 22.5                           | А                       | Extremely unstable          |             |  |

The accuracy of this method is poor when wind speed is less than 3.4 MPH.







| l By               |                                       |                 | Vogtle Electri           | c Generating Plant                     |                             | Procedure Number<br>91304-C |
|--------------------|---------------------------------------|-----------------|--------------------------|----------------------------------------|-----------------------------|-----------------------------|
| proved             |                                       |                 | ESTIMAT                  | ING OFFSITE DO                         | )SE                         | Page Number                 |
| 2002               | · · · · · · · · · · · · · · · · · · · |                 |                          |                                        |                             | 16 of 2                     |
|                    |                                       |                 | <u>D</u> A<br>OFFSITE DO | <u>ATA SHEET 1</u><br>SE ASSESSMENT DA | ТА                          | Sheet 1                     |
|                    |                                       |                 |                          |                                        |                             |                             |
| Unit 1             | 2 C                                   |                 | Date/                    | / Time                                 | Notification M              | essage Number               |
| MET DATA           | (15 minute averages)                  | )               |                          |                                        |                             |                             |
| Primary 10 m       | ieter                                 | Speed (mph)     | Wind Direc               | tion (from) Stability                  | Class Rain (incl            | <u>ies)</u>                 |
| Second 10 m        | eter                                  |                 |                          |                                        | <u></u>                     |                             |
| RELEASE D          | URATION (Section                      | 5.1.2.6)        |                          |                                        | R                           | CS GASEOUS ACTIVITY         |
| Time Releas        | e Started Rele                        | ase Duration (n | uns)                     |                                        |                             | Keading (uCi/cc)            |
|                    |                                       |                 |                          |                                        |                             |                             |
| EFFLUENT           | MONITOR DATA                          |                 | Monitor                  | Reading                                | Flow Transmitter (CFM)      | Reading                     |
|                    |                                       |                 |                          |                                        | FT-12442                    |                             |
| Plant Vent         |                                       | RE-1            | 12444C (µCi/cc)          |                                        | FT-12835 – Seismic Event    |                             |
| Steam Jet A        | ir Ejector                            | RE-             | 12839C (µCi/cc)          |                                        | FT-12839                    |                             |
| Radwaste P         | rocessing Facility                    | RE-             | 16980A (μCi/cc)          |                                        | AFT-16980F                  |                             |
| <b>Reactor Bui</b> | ilding Area                           | RE-             | 005/006 (mR/hr)          |                                        | Containment Default         | 3.8                         |
| DBA TVDF/          | S) CIRCLE APPLIC                      | ABLE            |                          |                                        |                             |                             |
| Unknown            | LOCA WGD                              | T CR Ejel       | ct L Rotor               | Steam Line RPF                         | Fuel Handling SGI           | <b>R-Loop</b> 1 2 3 4       |
|                    | TTODING TEAM D                        | ***             |                          |                                        |                             |                             |
| FIELD MON          | TIORING TEAM D                        |                 |                          | # Distance from Containme              | ent Field Monitoring Team S | ample                       |
| * Dose F           | Rate (mRem/hr)                        | Air Sample      | e Results (CPM)          | Building (Miles)                       | Point Location (i.e. L      | 21) Time Measured           |
|                    |                                       | Particulate     |                          | 4                                      |                             |                             |
| Open Window        |                                       |                 |                          |                                        | 1                           |                             |

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Printed April 16, 2002 at 11:12

| Approved By             | ser               | Vogtle Electric Generating Plant                                                                                                   | Procedure Number<br>91304-C | Rev<br>14 |
|-------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|
| Date Approved 04/12/200 | )2                | ESTIMATING OFFSITE DOSE                                                                                                            | Page Number<br>17 of 2      | 20        |
|                         |                   | <u>CHECKLIST 1</u>                                                                                                                 | Sheet 1                     | of 1      |
| INIT                    | IAL AC            | <u>FIONS</u>                                                                                                                       |                             |           |
| 1.                      | Obtain            | the Dose Assessment Team Package:                                                                                                  |                             |           |
|                         | a.                | TSC - Cabinet #4 in the TSC proper.                                                                                                |                             |           |
|                         | b.                | EOF - Briefcase in the EOF Storage Room.                                                                                           |                             |           |
|                         |                   | NOTE                                                                                                                               |                             |           |
|                         |                   | a. Shift Superintendent will be the source for the following inf prior to Emergency Response Facility activation.                  | ormation                    |           |
|                         |                   | b. Immediately contact the Emergency Director if information required for performing Offsite Dose Assessment can obtained.         | on that is<br>Innot be      |           |
| 2.*                     | Contac<br>Superv  | t pertinent Emergency Response Facility Management (i.e. TS isor, TSC Manager, EOF Manager) to obtain the following information.   | C Operations                | 5         |
|                         | a.                | Affected Unit Number                                                                                                               |                             |           |
|                         | b.                | Type of Design Base Accident occurring (i.e. LOCA, SGTR)                                                                           |                             |           |
|                         | c.                | Affected Loop Number if DBA is a Steam Generator Tube Rupture                                                                      |                             |           |
|                         | d.                | Plant Conditions (i.e. duration of release)                                                                                        |                             |           |
|                         |                   | NOTE                                                                                                                               |                             |           |
|                         |                   | A separate Data Sheet 1 should be completed for each individ<br>assessment calculation.                                            | lual dose                   |           |
| 3.*                     | Comp              | lete Data Sheet 1, "Offsite Dose Assessment Data" of this procedure.                                                               |                             |           |
| 4.                      | Go to (           | Figure 2) of this procedure if the DBA is a SGTR.                                                                                  |                             |           |
| 5.                      | Go to (           | Figure 1) to perform Offsite Dose Assessment.                                                                                      |                             |           |
| 6.*                     | Once t<br>those p | he initial Offsite Dose Assessment has been completed, continue to mo<br>parameters that are needed for the DBA that is occurring. | onitor and trend            | 1         |
| * Cor                   | tinuina           | Activity                                                                                                                           |                             |           |

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| Approved By<br>J. T. Gasser |                                                                                                                                                           | Vogtle Electric Generating Plant |                                          |                                   |                              |                         |                         |                      | Procedure Number<br>91304-C |          |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|-----------------------------------|------------------------------|-------------------------|-------------------------|----------------------|-----------------------------|----------|
| Date Approved 04/12/2002    |                                                                                                                                                           | ESTIMATING OFFSITE DOSE          |                                          |                                   |                              |                         |                         |                      | Page Number<br>18 of 20     |          |
|                             |                                                                                                                                                           | <u></u>                          | . <u></u>                                | CHEC                              | KLIST 2                      |                         |                         |                      | Sheet                       | 1 of 3   |
|                             | <u>CO</u> 1                                                                                                                                               | MPLETIN                          | NG LINES 1                               | <u>10-15 ON TH</u>                | <u>HE OFFSI</u>              | <u>FE NOT</u>           | IFICATI                 | <u>ON FO</u>         | <u>PRM</u>                  |          |
| 1.                          | Line 10 Emergency Release(s)                                                                                                                              |                                  |                                          |                                   |                              |                         |                         |                      |                             |          |
|                             | a. Box A – "None" (Go to Line 14 instructions)                                                                                                            |                                  |                                          |                                   |                              |                         |                         |                      |                             |          |
| 1                           | b. Bo                                                                                                                                                     | x B – "Po<br>will<br>of a        | otential" (Go<br>reduce cont<br>release. | to Line 14 i<br>fusion with c     | instructions<br>offsite agen | s) should<br>cies as to | not be no<br>the prob   | ormally<br>ability a | marked. Thi<br>and magnitud | is<br>le |
| ſ                           | c. Bo                                                                                                                                                     | x C – "Is C<br>of tł             | Occurring" T<br>his procedur             | This indicates<br>e, is in progre | that a knowess.              | wn radiol               | ogical rel              | ease, pe             | er section 5.1.             | .1       |
| •                           | d. Bo                                                                                                                                                     | x D – "Ha<br>5.1.                | as Occurred<br>1 of this pro             | l" This indica<br>ocedure, has ta | ates that a aken place       | known ra<br>sometime    | adiologica<br>in the pa | al relea:<br>st.     | se, per sectio              | 'n       |
| 2.                          | Line 1                                                                                                                                                    | l Type                           | of Release                               |                                   |                              |                         |                         |                      |                             |          |
|                             | a. Check box "Ground Level"                                                                                                                               |                                  |                                          |                                   |                              |                         |                         |                      |                             |          |
| 1                           | b. Box A – "Airborne" If a release has occurred or is occurring, give time and date the release started and time and date release stopped, if applicable. |                                  |                                          |                                   |                              |                         |                         |                      | ie                          |          |
| 3.                          | Line 12                                                                                                                                                   | 2                                |                                          |                                   |                              |                         |                         |                      |                             |          |
|                             | a. Release Magnitude - Check box "Curies per second"                                                                                                      |                                  |                                          |                                   |                              |                         |                         |                      |                             |          |
| 1                           | b. Normal Operating Limits                                                                                                                                |                                  |                                          |                                   |                              |                         |                         |                      |                             |          |
|                             | (1)                                                                                                                                                       | Check                            | k the "Below                             | w" Box if any                     | of the follo                 | owing con               | nditions e              | xist:                |                             |          |
|                             |                                                                                                                                                           | (a)                              | The high<br>(RE-1244                     | alarm set 3<br>4C and RE-1        | points on<br>2839C) hav      | the gase<br>ve not bee  | ous efflu<br>mexceed    | uent rel<br>ed.      | lease monito                | rs       |
|                             |                                                                                                                                                           | (b)                              | Dose asse<br>0.02 mRe                    | essment result<br>m for both T    | ts at the sit<br>EDE and C   | e bounda<br>DE.         | ry are cal              | culated              | to be less that             | n        |
|                             |                                                                                                                                                           |                                  |                                          |                                   |                              |                         |                         |                      |                             |          |
|                             |                                                                                                                                                           |                                  |                                          |                                   |                              |                         |                         |                      |                             |          |
|                             |                                                                                                                                                           |                                  |                                          |                                   |                              |                         |                         |                      |                             |          |
|                             |                                                                                                                                                           |                                  |                                          |                                   |                              |                         |                         |                      |                             |          |

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| Approved By                                 |                                                                     | Vortle Flootrie Constating Plant                                                                                                                                                             | Procedure Number Rev            |  |  |  |  |  |
|---------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--|--|--|--|--|
| J. T. Gasser<br>Date Approved<br>04/12/2002 |                                                                     | Vogile Exective Generating Flant                                                                                                                                                             | 91304-C 14<br>Page Number       |  |  |  |  |  |
|                                             |                                                                     | ESTIMATING OFFSITE DOSE                                                                                                                                                                      | 19 of 20                        |  |  |  |  |  |
| ******                                      |                                                                     | CHECKLIST 2                                                                                                                                                                                  | Sheet 2 of 3                    |  |  |  |  |  |
| <u>COMPI</u>                                | <u>.etinc</u>                                                       | <u>G LINES 10-15 ON THE OFFSITE NOTIFICATION FORM (CC</u>                                                                                                                                    | <u>)NTINUED)</u>                |  |  |  |  |  |
|                                             | (2) Check the "Above" Box if any of the following conditions exist: |                                                                                                                                                                                              |                                 |  |  |  |  |  |
|                                             |                                                                     | (a) The high alarm set points on the gaseous effluent relation (RE-12444C and RE-12839C) have been exceeded.                                                                                 | ease monitors                   |  |  |  |  |  |
|                                             |                                                                     | (b) Dose assessment results at the site boundary are calculated than 0.02 mRem for either TEDE or CDE.                                                                                       | to be greater                   |  |  |  |  |  |
|                                             | (3)                                                                 | The "Noble Gases", "Particulate's", "Iodine's" and "Other" information will be obtained from the MIDAS printout or can be le information is not available.                                   | Check Boxes<br>oft blank if the |  |  |  |  |  |
| 4. Li                                       | ne 13                                                               | Estimate of Projected Offsite Dose                                                                                                                                                           |                                 |  |  |  |  |  |
| a                                           | a Check the "New" box if the following conditions exist:            |                                                                                                                                                                                              |                                 |  |  |  |  |  |
|                                             | (1)                                                                 | This is the initial projected offsite dose estimation.                                                                                                                                       |                                 |  |  |  |  |  |
|                                             | (2)                                                                 | The projected offsite dose estimation has changed since the last noti                                                                                                                        | fication.                       |  |  |  |  |  |
| b.                                          | Check<br>the las                                                    | k the "Unchanged" box if the projected offsite dose estimation has not changed sinc                                                                                                          |                                 |  |  |  |  |  |
| c.                                          | "Proje<br>be on                                                     | 'Projection Time" is the time that the dose projection was run in MIDAS. This time will be on the MIDAS printout.                                                                            |                                 |  |  |  |  |  |
| d.                                          | "Estin<br>perfor<br>of this                                         | imated Duration" is the amount of time that the release is expected to last. Personnel orming offsite dose assessment will determine the release duration via section 5.1.2.6 his procedure. |                                 |  |  |  |  |  |
|                                             | NOTE                                                                |                                                                                                                                                                                              |                                 |  |  |  |  |  |
|                                             |                                                                     | If the "Below" box is selected for the Normal Operating Limits on<br>then the recorded Site Boundary dose for TEDE and Thyroid CD<br>less than 0.02 mRem.                                    | Line 12,<br>E will be           |  |  |  |  |  |

e. "TEDE" and "Thyroid CDE" offsite doses for the Site, 2 Mile, 5 Mile and 10 Mile boundaries will be taken directly from the MIDAS printout.

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| Approved By<br>J. T. Gasser<br>Date Approved<br>04/12/2002 |                                                                                                                                                                                                                                     |                                                                                                      | Vogtle Electric Generating Plant                                                                                                  | Procedure Number<br>91304-C      | Rev<br>14 |  |  |  |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------|--|--|--|
|                                                            |                                                                                                                                                                                                                                     |                                                                                                      | ESTIMATING OFFSITE DOSE                                                                                                           | Page Number<br>20 of 20          |           |  |  |  |
|                                                            |                                                                                                                                                                                                                                     |                                                                                                      | CHECKLIST 2                                                                                                                       | Sheet 3                          | of 3      |  |  |  |
| <u>CON</u>                                                 | <u>1PLE</u>                                                                                                                                                                                                                         | TIN                                                                                                  | <u>G LINES 10-15 ON THE OFFSITE NOTIFICATION FORM (CO</u>                                                                         | <u>ONTINUED)</u>                 |           |  |  |  |
|                                                            |                                                                                                                                                                                                                                     |                                                                                                      | NOTE                                                                                                                              |                                  |           |  |  |  |
|                                                            | The same Meteorological Data that was inputted into MIDAS during the Offsite Dose calculation must be used on the Notification Form. Do not use the current Integrated Plant Computer Meteorological Data on the Notification Form. |                                                                                                      |                                                                                                                                   |                                  |           |  |  |  |
| 5.                                                         | Line                                                                                                                                                                                                                                | :14                                                                                                  | Meteorological Data will be will be taken directly from the MIDAS                                                                 | printout.                        |           |  |  |  |
| 6.                                                         | Line                                                                                                                                                                                                                                | 15                                                                                                   | Recommended Protective Actions                                                                                                    |                                  |           |  |  |  |
|                                                            | a l                                                                                                                                                                                                                                 | Box A<br>Area I                                                                                      | A – "No Recommended Protective Actions" is checked if a NOUE<br>Emergency has been declared.                                      | , Alert or Site                  |           |  |  |  |
|                                                            | b. I<br>1                                                                                                                                                                                                                           | Box B and C – "Evacuate" and "Shelter-In-Place" are checked if a General Emergency as been declared. |                                                                                                                                   |                                  |           |  |  |  |
|                                                            | (                                                                                                                                                                                                                                   | 1)                                                                                                   | Protective action recommendations will be determined by Procedure 91305-C, "Protective Action Guidelines".                        | implementing                     |           |  |  |  |
|                                                            | (                                                                                                                                                                                                                                   | 2)                                                                                                   | The Dose Assessment Manager shall be responsible for making<br>estimates and recommending offsite protective actions to the Emerg | g offsite dose<br>ency Director. |           |  |  |  |
|                                                            | c. I                                                                                                                                                                                                                                |                                                                                                      |                                                                                                                                   |                                  |           |  |  |  |
|                                                            |                                                                                                                                                                                                                                     |                                                                                                      |                                                                                                                                   |                                  |           |  |  |  |
|                                                            |                                                                                                                                                                                                                                     |                                                                                                      |                                                                                                                                   |                                  |           |  |  |  |
|                                                            |                                                                                                                                                                                                                                     |                                                                                                      |                                                                                                                                   |                                  |           |  |  |  |

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