U.S. Department of Homeland Security FEMA Region 6 800 North loop 288 Denton, TX 76209-3698



August 20, 2008

Mr. Elmo E. Collins, Jr. Regional Administrator U.S. NRC, Region IV 612 E. Lamar Blvd., Suite 400 Arlington, TX 76011-4005

Dear Mr. Collins:

Enclosed is a copy of the radiological emergency preparedness final report for the River Bend Station Plume Pathway exercise evaluated on June 11, 2008.

There were three areas requiring corrective action (ARCAs) which were corrected during the exercise.

Based on the results of this exercise, the offsite radiological emergency response plans and preparedness for the State of Louisiana and the affected local jurisdictions are deemed adequate to provide reasonable assurance that appropriate measures can be taken to protect the health and safety of the public in the event of a radiological emergency. Therefore, 44 CFR Part 350 approval of the offsite radiological emergency response plans and preparedness for the State of Louisiana site-specific to River Bend Station will remain in effect.

A copy of this report was provided electronically to Ms. Kathryn Brock, Office of Nuclear Security and Incident Response, at NRC Headquarters. Should you have questions, please contact Lisa Hammond, Regional Assistance Committee Chair, at 940-898-5199, or Elsa Lopez, Louisiana Site Specialist, at 940-898-5308.

Sincerely,

William Peterson Regional Administrator

Enclosure

 cc: Governor's Office of Homeland Security & Emergency Preparedness – Mark A. Cooper Louisiana Department of Environmental Quality – Jeffrey Meyers River Bend Station – Joseph Leavines NRC Headquarters Document Control Desk

www.fema.gov

River Bend Station

Exercise Report - 2008-06-11 Final Report - Radiological Emergency Preparedness (REP) Program 2008-08-14









Exercise Report

River Bend Station

Exercise Date: 2008-06-11

Report Date: 2008-08-14

U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency REP Program

800 North Loop 288 Denton, TX 76209

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1. Executive Summary

On June 11, 2008, a biennial Radiological Emergency Preparedness (REP) exercise was conducted for the Plume Exposure Pathway Emergency Planning Zone (EPZ) around the River Bend Station (RBS), located near St. Francisville, Louisiana. Personnel from the U.S. Department of Homeland Security-Federal Emergency Management Agency (DHS-FEMA) Region VI, evaluated all activities. The purpose of the exercise was to assess the level of preparedness of local responders to react to a simulated radiological emergency at RBS. It was held in accordance with FEMA's policies and guidance concerning the implementation of state and local REP plans and procedures.

The previous exercise at this site was conducted on August 16, 2006. The first qualifying exercise to satisfy FEMA rule 44 Code of Federal Regulations (CFR) 350 requirements for Nuclear Regulatory Commission (NRC) licensing to operate the facility was conducted in January 1985. Including the exercise on June 11, 2008, there have been fourteen DHS-FEMA Region VI evaluated exercises plus several drills conducted since then.

FEMA Region VI wishes to acknowledge the efforts of the many individuals in the State of Louisiana, West Feliciana, East Feliciana, Pointe Coupee, East Baton Rouge and West Baton Rouge Parishes who participated in this exercise. Protecting the public health and safety is the full-time job of some of the exercise participants and an additional assigned responsibility for others. Still others have willingly sought this responsibility by volunteering to provide vital emergency services to their communities. Cooperation and teamwork of all the participants was evident during this exercise.

This report includes the identification of any exercise issues and recommendations for corrective action where appropriate.

All state and local organizations, except where noted in this report, demonstrated an adequate knowledge of the emergency response plans and procedures and properly implemented them. There were no Deficiences, three Areas Requiring Corrective Action (ARCA) that were corrected on the spot, no Areas Recommended for Improvement (ARFIs), and one Planning Issue identified during the exercise.

2. Introduction

On December 7, 1979, the President directed the Federal Emergency Management Agency (FEMA) to assume the lead responsibility for all offsite nuclear planning and response. FEMA's activities under the REP Program are conducted pursuant to 44 Code of Federal Regulations (CFR) Parts 350, 351 and 352. These regulations are a key element in the Radiological Emergency Preparedness (REP) Program that was established following the Three Mile Island Nuclear Station accident in March 1979.

Rule 44 CFR 350 establishes the policies and procedures for the DHS-FEMA Region VI Office's initial and continued approval of tribal, state and local governments' radiological emergency planning and preparedness for commercial nuclear power plants. This approval is contingent, in part, on state and local government participation in joint exercises with licensees. . .

FEMA's Region VI responsibilities in radiological emergency planning for fixed nuclear facilities include the following:

- Taking the lead in offsite emergency planning and in the review and evaluation of radiological emergency response plans (RERPs) and procedures developed by state and local governments, ensuring the plans meet the federal criteria set forth in NUREG-0654/FEMA REP-1, Rev. 1 (November 1980);

- Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of an exercise conducted by the appropriate emergency. response jurisdictions;

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- Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and

- Coordinating the activities of volunteer organizations and other Federal agencies with responsibilities in the radiological emergency planning process.

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- U.S. Nuclear Regulatory Commission (NRC) of according to the state of the

- U.S. Environmental Protection Agency (EPA)

- U.S. Department of Energy (DOE)
- U.S. Department of Health and Human Services (DHHS)
- U.S. Department of Homeland Security-FEMA
- U.S. Department of Transportation (DOT)
- U.S. Department of Agriculture (USDA)
- U.S. Department of the Interior (DOI)
- U.S. Food and Drug Administration (FDA).

Representatives of these agencies serve on the Regional Assistance Committee (RAC), which is chaired by the Branch Chief of the Technological Hazards Branch at the DHS-FEMA Region VI Office.

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The findings presented in this report are based on the federal evaluation team's assessment of the participants' response to a simulated radiological incident at the River Bend Station that affected the offsite population. The RAC Chair made the final classification of any issues identified, and the FEMA Region VI Regional Administrator approved the report.

The criteria utilized in the evaluation process are contained in:

- 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, November 1980;

- Interim REP Program Manual, including the Radiological Emergency Preparedness Exercise Evaluation Methodology (August 2002)

Section III of this report, entitled "Exercise Overview," presents basic information and data relevant to the exercise. This section of the report contains a description of the Emergency Planning Zone (EPZ), a listing of all participating jurisdictions and functional entities that were evaluated, and a tabular presentation of the time of actual occurrence of key exercise events and activities.

Section IV of this report, entitled "Exercise Evaluation and Results," presents detailed information on the demonstration of applicable evaluation areas at each jurisdiction or functional entity. If applicable, this section also contains descriptions of all Deficiencies and Areas Requiring Corrective Actions (ARCAs) assessed during the exercise and recommended corrective actions, as well as descriptions of ARCAs assessed during

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previous exercises and the current status of each.

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3. Exercise Overview

This section contains data and basic information relevant to the June 11, 2008, plume exercise to test the offsite response capabilities in the area surrounding the River Bend Station (RBS). This section of the report includes a description of the Emergency Planning Zone (EPZ), a listing of all participating jurisdictions, which were evaluated, and a tabular presentation of the times of actual occurrence of key exercise events and activities.

3.1. EPZ Description

The area within 10 miles of River Bend Station (RBS) is located in the State of Louisiana within the confines of West and East Feliciana Parishes, West and East Baton Rouge Parishes, and Pointe Coupee Parish. This area is referred to as the Emergency Planning Zone (EPZ).

The total population of the EPZ is 41,568 (Daytime Peak Season). Besides schools and churches, there are a few other special facilities. There are two hospitals within the 10-mile EPZ including the West Feliciana Parish Hospital (an MS-1 hospital). There are also four incarceration facilities. There are two paper mills, Tembec in West Feliciana and Georgia-Pacific in East Baton Rouge. In Pointe Coupee Parish, there are two electricity-generating plants, Big Cajun No. 1 and No. 2. Located approximately five miles south-southeast of RBS is the Port Hudson State Commemorative Area. Located approximately five miles north of RBS is the Locust Grove State Commemorative Area, and located approximately two miles north is the Audubon Commemorative Park.

There are two major railway lines running through the RBS EPZ. They are the Illinois Central Gulf and the Kansas City Southern Railroads. U.S. Highway 61, Louisiana State Highways 1, 10, 68, and 415 are the major roads within the EPZ.

The EPZ is divided into 18 Protection Action Sections (PAS) defined by geographical boundaries for the purpose of emergency response planning and their implementation of protective actions.

The 10-mile EPZ includes: RBS, Starhill, Audubon State Historic Site, St. Francisville, Hardwood, Elm Park, Bains Road, Airport Road, Mahoney Road, Carney, Freeland, Whitman, Tembec Area, Riddle Area, Tunica Swamp, Cat Island, Solitude, Wakefield,

Beachwood, Bains, Jones Vaughn Creek Road, Freeland Road, Highway 10 between Carney and Jackson, Williams Gas Pipeline/Transco and the sparsely populated area North of Highway 964 and West Highway 68, Delombre, Port Hudson State Historic Site, Jackson, Asphodel, Green Briar Road, Highway 68 south of Jackson City Limits to Highway 964, Highway 955 between Green Briar Road and Highway 412, Lindsay, Highway 68 south of Highway 964 to Highway 61, Highway 412 from Highway 955 to Thompson Road, Plains, Flanacher Road, Port Hudson, Bonn, Mount Pleasant, Port Hickey, Waterloo, and Big Cajun No. 2, Rougon, Chenal, Ventress, Patins, Leavel, Ploup, Brooks, Schexnayder, and Beaud. The Mississippi River runs through the southwestern portion of the EPZ.

3.2. Exercise Participants

Agencies and organizations of the following jurisdictions participated in the River Bend Station exercise:

State Jurisdictions We want to the second Governor's Office of Homeland Security and Emergency Preparedness Louisiana Department of Agriculture and Forestry Louisiana Department of Environmental Quality Louisiana Department of Health and Hospitals Louisiana Department of Social Services ۱., . Louisiana Wildlife and Fisheries And the second second second **Risk Jurisdictions** . . Baton Rouge City Police Department Capital Area Transit System East Baton Rouge Council of Aging . . . East Baton Rouge Emergency Medical Services East Baton Rouge Fire Department East Baton Rouge Health Unit East Baton Rouge Office of Family Support East Baton Rouge Parish East Baton Rouge Parish Homeland Security and Emergency Preparedness East Baton Rouge Parish School Board East Baton Rouge Social Services East Baton Rouge Sheriff's Office East Feliciana Parish East Feliciana Parish Homeland Security and Emergency Preparedness

East Feliciana Parish Fire Department East Feliciana Parish School Board East Feliciana Parish Sheriff's Office Point Coupee Parish Point Coupee Parish Homeland Security and Emergency Preparedness Point Coupee School Board City of New Roads : --First Student Bus Company West Baton Rouge Parish West Baton Rouge Parish Homeland Secuity and Emergency Preparedness West Baton Rouge Fire Department West Baton Rouge Sheriff's Office West Baton Rouge School Board Port Arthur City Police of the address of the address of a sector equiverences . . . West Feliciana Parish West Feliciana Emergency Ambulance Service West Feliciana Parish Council of Aging actual bloater and a state of a second West Feliciana Parish Fire Department State And Andrew State State State West Feliciana Parish Homeland Security and Emergency Preparedness West Feliciana Parish Hospital West Feliciana Parish Office of Family Support and the second sec The Area States of a to the second West Feliciana Parish School Board West Feliciana Parish Sheriff's Office St. Francisville Police Department The state of the second St. Francisville Volunteer Fire Department or the subdensity of a Town of St. Francisville 化合物试验 网络克莱马马尔 医口腔的 计数字分子 Zachary Fire Department 这些"你的话"中将这一个话,"你们"。 **Private Jurisdictions** تلجب ويوموجج للقرار والأرار الارباط وتواجع American Red Cross 医小脑炎 化乙酸盐酸 化乙酰氨基 化乙酰乙酰基 Entergy Operations, Inc. NEW STRAND **River Bend Station** Radio Amateur Civil Emergency Service (RACES) Result in the Contract of the Architecture THE REPORT OF A DECK 3.3. Exercise Timeline 网络草叶树枝 网络金属树叶 计正式分子 nons Forul, An Island and the second share the second states of the secon

Table 1 - Exercise Timeline DATE: 2008-06-11, SITE: River Bend Station, LA

Emergency Classification Level or Event	Time Utility Declared	GOHSEP EOC	Шоено	LDEQ EOF1	RB Alt.JIC	E-Baton Rouge Parish EOC & T/ACP	E. Feliciána Parish BOC & T/ACP
Unusual Event	····			0004		,	
Alert	0847	0903	0904	0904	0922	0903	0907
Site Area Emergency	0958	1005	1007	1010	1010	1006	1007
General Emergency	1145	1157	1201	1145	.1158	1157	1159
Simulated Rad. Release Started	1145	.1157	- 1201	·. ·	1158	1157	1159
Simulated Rad. Release Terminated		1357	· .	· · ·		1400	1405
Facility Declared Operational		• •	0910	1120	0938	1000	1005
Declaration of State of Emergency	· · · · ·	1047				1115	1205
Exercise Terminated		1357	- 1406 -	1354	1408	1400	1405
Early Precautionary Actions:		4 4 4 10 300 U U UF					
1st Protective Action Decision:	· · · · ·	1215	1231	•		1215	1217
1st Siren Activation	· ·	1225				1225	1225
1st EAS or EBS Message		1229	•			1229	1231
2nd Protective Action Decision:			•.		· .		
2nd Siren Activation							
2nd EAS or EBS Message					· · · · · ·	•	
3rd Protective Action Decision:			· -				
3rd Siren Activation	N <i>2</i>	· ·· ·· · · · · · · · · · · · · · · ·					
3rd EAS or EBS Message							
KI Administration Decision:							

Emergency Classification Level on Event	Time Utility Declared	Pointe Coupee Parish: EOC & T/ACP	W Baton Rouge Parish EOC & T/ACP	W Feliciana Parish EOC & TACP
Unusual Event				<u>NA</u> .
Alert	0847	0904	. 0903	
Site Area Emergency	. 0958	1004	1.003	1006
General Emergency	1.145	1155	1155	1.158
Simulated Rad. Release Started	1145	. 1155	<u> 1.155</u>	1158
Simulated Rad. Release Terminated		1400		· · · ·
Facility Declared Operational	··· .	1004	1010	0924
Declaration of State of Emergency	· · · ·	1010	~ ~ 0948~	1045
Exercise Terminated		1400	<u> </u>	1400
Early Precautionary Actions:	· •· •	- · · · · · · · · · · · ·	• •	NA
1st Protective Action Decision:	•	1218		1200
1st Siren Activation		1225	····· 1225 [.]	1225
1st EAS or EBS Message		· 1229· · ·	·1228	
2nd Protective Action Decision:				
2nd Siren Activation				
2nd EAS or EBS Message				
3rd Protective Action Decision:		· • • • • •		• • • •
3rd Siren Activation				
3rd EAS or EBS Message				
KI Administration Decision:				

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Table 1 - Exercise Timeline DATE: 2008-06-11, SITE: River Bend Station, LA

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4. Exercise Evaluation and Results

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities that participated in the June 11, 2008 exercise to test the offsite emergency response capabilities of state and local governments in the 10-mile EPZ surrounding the River Bend Station.

Each jurisdiction and functional entity was evaluated on the basis of its demonstration of criteria delineated in the exercise evaluation areas as outlined in the April 25, 2002, Federal Register, Radiological Emergency Preparedness: Evaluation Methodology. Detailed information on the exercise evaluation area criteria and the extent of play agreement used in this exercise are found in Appendix 3 of this report.

4.1. Summary Results of Exercise Evaluation

The matrix presented in Table 2, on the following page, presents the status of all exercise evaluation area criteria that were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. Exercise criteria are listed by number and the demonstration status is indicated by the use of the following letters:

M - Met (No Deficiency or ARCAs assessed and no unresolved ARCAs from prior _exercises)

D - Deficiency assessed

A - ARCA(s) assessed or unresolved ARCA(s) from prior exercise(s)

N - Not Demonstrated (Reason explained in Subsection B)

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		GOHS	LDEQ	LDEQ	LDEQ	LDEQ	RB Alt	E. Batc	River (E. Feli	Zachar
Emergency Operations Management	а				2.14	at in	, . .				
Mobilization	lal	М	Μ	M			Μ	M		Μ	,
Facilities	1b1		a.		•					Μ	
Direction and Control	lcl	M	M	M	·:	۶.,		M		M.	
Communications Equipment	1d1	М	M	М	М	M	Μ	Μ		Μ	
Equip & Supplies to support operations	lel	М	M	M	M	M	M	M	М	Μ	М
Protective Action Decision Making		⁸⁵ 7 45 54	· · ·				, ·			544) -**: 24	ri, t în
Emergency Worker Exposure Control	2a1	М		M				M		Μ	
Radiological Assessment and PARs	2b1	M		.M			•.		·		
Decisions for the Plume Phase -PADs	2b2	М						M		Μ	
PADs for protection of special populations	2c1	26		÷	1			M	-	Ň	
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1	1.1	· Ŀ.				<u> </u>		11		·
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1		1911 - 1 11				: 1. 11.	- 14	۰. ۲۳۹۰		72 H
Protective Action Implementation				3. 1 .		*** ^{*†}	°.≓ γ	1911 - 1914 1914 - 1914 1914 - 1914 - 1914	3_9°	. 1954	anti Car Cardi
Implementation of emergency worker exposure control	3a1			M	M	M	<u> </u>	M	M	M	M
Implementation of KI decision	361					\vdash	<u> </u>	M		_	
Implementation of protective actions for special populations - EOCs	<u>3c1</u>					<u> </u>	<u> </u>	М	\vdash	м	
Implementation of protective actions for Schools	3c2		-		·	· · ·					
Implementation of traffic and access control	3d1	<u> </u>					<u> </u>	M		M	
Impediments to evacuation are identified and resolved	3d2							M		M	·. ·
Implementation of ingestion pathway decisions - availability/use of info	<u>3e1</u>	 					<u> </u>	\square		\square	
Materials for Ingestion Pathway PADs are available	3e2		L				<u> </u>		 		
Implementation of relocation, re-entry, and return decisions.	3f1	1.53.6		1. F	· •.'		d P	1.4	1.575	24135	1.12
Field Measurement and Analysis	· Typby -		<u>, .</u> .				29	194 E		S PALS	
Adequate Equipment for Plume Phase Field Measurements	4al	÷,			M	<u>M</u> .		\vdash	. *		<u> </u>
Field Teams obtain sufficient information	4a2			M			\vdash	\square			
Field Teams Manage Sample Collection Appropriately	4a3				M	M					\square
Post plume phase field measurements and sampling a second structure and sampling				•	• •	<u> </u>		-:			
Laboratory operations	4c1	ant a	<u>.</u>			1.00	i	<u>.</u>		Ú.	
Emergency Notification and Public Info	2. do		: : 		· · .	• • •	CHI HI		ين مريم م	<u> </u>	افي تداول
Activation of the prompt alert and notification system						\vdash	┟──┤	M		M	
Activation of the prompt alert and notification system - Fast Breaker	15a2					$\left - \right $	\vdash	$\left - \right $	-+		-
Activation of the prompt alert and notification system - Exception areas	5a3_						$\left \cdot \right $	\vdash	-+	M	
Emergency information and instructions for the public and the media			-			14.5	M	M	n a l	M	1623
Support Operations/Facilities				24		<u> </u>	ř				÷-
Mon / decon of evacuees and emergency workers, and registration of evacuees	16a1			_			\vdash		M		M
Mon / decon of emergency worker equipment	601			_			┝╼┥	 			<u>M</u>
I emporary care of evacuees	601						┝──┤		M	-+	
I ransportation and treatment of contaminated injured individuals	[6d]					. 1	()	ł	- 1	- 1	Ì

Table 2 - Summary of Exercise Evaluation (2 pages)

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DATE: 2008-06-11 SITE: River Bend Station, LA A: ARCA, D: Deficiency, M: Met		oupee Parish EOC'& T/ACP		1 Rouge Parish EOC & T/ACP	iana Parish EOC & T/ACP		lio Station WJBO
		Pointe C	PCPSD	W. Bator	W. Felic	WFPSD	EAS Rac
Emergency Operations Management	al de la companya de La companya de la comp				8.1.1.1 - 1.1.1		-
Mobilization	lal	М	1	М	М		
Facilities	161						
Direction and Control	101	М	·	М	М		
Communications Equipment	ĺd1 .	M	۰.	М	М		
Equip & Supplies to support operations	lel	M		Μ	M		
Protective Action Decision Making		1. 1.	Ę	an a		lateria. Nera	- 1 - 1 1 - 1 1 - 1
Emergency Worker Exposure Control	2a1	М		М	М		
Radiological Assessment and PARs	2b1						
Decisions for the Plume Phase -PADs	2h2	м		м	м		
PADs for protection of special nonulations	201	м		M	M	•	
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1		5	141			
Rad Assessment and Decision making concerning Relocation Reentry and Return	201						
Protective Action Implementation	201		цачае.	1914 1914			
Implementation of emergency worker exposure control	3a1	м	1	M	М	4.84	
Implementation of KI decision	361			M			
Implementation of protective actions for special populations - FOCs	301	м		м	м		
Implementation of protective actions for Schools	302		м			м	
Implementation of traffic and access control	341	M		м	м	191	
Implementation of realized and access control	242	M		M	M		•
Implementation of ingestion national decisions - qualitability/use of infe	201	IVI		IVI	IVI		
Implementation of ingestion pathway decisions - availability/use of into	2.2	,					
Materials for higheritary of anti-anti-anti-anti-anti-anti-anti-anti-	261						
implementation of relocation, re-entry, and return decisions.	511	1. S.O	1 1.00			1210	
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Field Teams obtain sufficient information	402					,	
Field Teams Manage Sample Collection Appropriately	402						
Post nume nhase field measurements and compling	4a5 141			<u>, </u>	<u>.</u>		• •• •
I aboratory operations	401 Áct 1		•				
Emergency Notification and Public Info	- 1 UI	- T.					San La
Activation of the prompt alert and notification system	5a1	M		M	M		M
Activation of the prompt alert and notification system - Fast Breaker	597	. 1	-+	141	141		191
Activation of the prompt alert and notification system [*] - Fast Dicator	523 .				-+		
Emergency information and instructions for the public and the media	Shi	- M		M	м	-+	_
Support Operations/Facilities	501	141			1 v1		
Mon / decon of evacuees and emergency workers and registration of evacuees	6a1			**.			<u> </u>
Mon / decon of emergency worker equipment	6h1			• †			
Temporary care of evacuees	6c1		\rightarrow		-+		\neg
Transportation and treatment of contaminated individuals	6d1 '	.	-	•		-	
and the second			, ·	I		1	

 Table 2 - Summary of Exercise Evaluation (Continued. page 2/2)

4.2. Status of Jurisdictions Evaluated

This subsection provides information on the evaluation of each participating jurisdiction and functional entity, in a jurisdiction based, issues only format. Presented below is a definition of the terms used in this subsection relative to demonstration status.

Met - Listing of the demonstrated exercise evaluation area criteria under which no Deficiencies or ARCAs were assessed during this exercise and under which no ARCAs assessed during prior exercises remain unresolved.

Deficiency - Listing of the demonstrated exercise evaluation area criteria under which one or more Deficiencies were assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.

Area Requiring Corrective Actions - Listing of the demonstrated exercise evaluation area criteria under which one or more ARCAs were assessed during the current exercise or ARCAs assessed during prior exercises remain unresolved, Included is a description of the ARCAs assessed during this exercise and the recommended corrective action to be demonstrated before or during the next biennial exercise.

Not Demonstrated - Listing of the exercise evaluation area criteria which were not demonstrated as scheduled during this exercise and the reason they were not demonstrated.

Prior ARCAs - Resolved - Descriptions of ARCAs assessed during previous exercises that were resolved in this exercise and the corrective actions demonstrated.

Prior ARCAs - Unresolved - Descriptions of ARCAs assessed during prior exercises that were not resolved in this exercise. Included is the reason the ARCA remains unresolved and recommended corrective actions to be demonstrated before or during the next biennial exercise.

The following are definitions of the two types of exercise issues that are discussed in this report.

A Deficiency is defined in the Interim REP Program Manual as "...an observed or identified inadequacy of organizational performance in an exercise that could cause a finding that offsite emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency to protect the health and safety of the public living in the vicinity of a nuclear power plant."

An ARCA is defined in the Interim REP Program Manual as "...an observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety."

The DHS-FEMA Region VI Office has developed a standardized system for numbering exercise issues (Deficiencies, ARCAs and Plan Issues). This system is used to achieve consistency in numbering exercise issues among DHS-FEMA Regional Offices and site-specific exercise reports within each Regional Office. It is also used to expedite tracking of exercise issues on a nationwide basis.

The identifying number for Deficiencies, ARCAs, and Plan Issues includes the following elements, with each element separated by a hyphen (-).

Plant Site Identifier - A two-digit number corresponding to the Utility Billable Plant Site Codes.

Exercise Year - The last two digits of the year the exercise was conducted.

Evaluation Area Criterion - A letter and number corresponding to the Evaluation Area criterion.

Issue Classification Identifier - (D = Deficiency, A = ARCA, and P = Plan Issues).

Exercise Issue Identification Number - A separate two (or three) digit indexing number assigned to each issue identified in the exercise.

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4.2.1. State Jurisdictions

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4.2.1.1. Governor's Office of Homeland Security and Emergency Preparedness

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 2.b.2, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

4.2.1.2. Louisiana Department of Environmental

Quality Headquarters

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None and the state of the sta
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

4.2.1.3. Louisiana Department of Environmental Quality EOF

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 3.a.1, 4.a.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: 3.a.1.

ISSUE NO.: 70-08-3a1-A-01

ISSUE: The LDEQ team members in the main room, did not read their dosimeters or record readings during the exercise.

CORRECTIVE ACTION DEMONSTRATED: During this exercise a prior issue from the 2007 Waterford-3 Plume Exercise was corrected as follows: The Logistics Coordinator in the Emergency Operations Facility (EOF) used a timer as a reminder to read dosimetry every 30 minutes. Every 30 minutes, the Logistic Coordinator would remind the LDEQ personnel in the Dose Assessment Room and in the main EOF Operations Room to read and

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record their dosimeters. All LDEQ personnel read their dosimeters and recorded the reading on their Exposure Control Card. The Logistic Coordinator also went around and recorded all readings on a separate log to monitor everyone's exposure.

f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.4. Louisiana Department of Environmental

Quality Field Monitoring Team One

- a. MET: 1.d.1, 1.e.1, 3.a.1, 4.a.1, 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

4.2.1.5. Louisiana Department of Environmental

Quality Field Monitoring Team Two

- a. MET: 1.d.1, 1.e.1, 3.a.1, 4.a.1, 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

4.2.1.6. River Bend Alternate Joint Information

Center

- a. MET: 1.a.1, 1.d.1, 1.e.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

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4.2.2. Risk Jurisdictions

4.2.2.1. East Baton Rouge Parish Emergency

Operations Center and Traffic/Access Control Point

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.d.1, 3.d.2, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

4.2.2.2. Baton Rouge River Center Reception Center

- a. MET: 1.e.1, 3.a.1, 6.a.1, 6.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 6.a.1.

ISSUE NO.: 53-08-6a1-A-02

ISSUE: Reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers. (NUREG-0654, J.10.h., K.5.b)

CONDITION: During the initial personnel survey the emergency worker misread the reading from the meter face as 1000 mR instead of 1000 counts per minute. This error was not corrected until the controller stopped play.

POSSIBLE CAUSE: Possible lack of radiological equipment training to the emergency worker providing the initial personnel monitoring.

REFERENCE: East Baton Rouge Parish Emergency Response Procedure for Reception Center (Baton Rouge River Center), Attachment 6: Initial Personnel Monitor.

Interim REP Program Manual, page III-92.

EFFECT: Following the termination of the reception center operations, the suvery results are turned over to Louisiana Department of Environmental Quality. If those results show 1000 mR from the surveys, it would indicate that the evacuees received a dose from the release. The survey meters used at the reception center read counts per minute which measures the radioactivity or contamination.

CORRECTIVE ACTION DEMONSTRATED: The play was stopped by the controller and additional radiological equipment training was given to the emergency worker at the initial personnel monitoring station. Play proceeded and the emergency worker gave the correct reading of 1000 counts per minute to the recorder.

- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

4.2.2.3. East Feliciana Parish Emergency

Operations Center and Traffic/Access Control Point

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.c.1, 3.d.1, 3.d.2, 5.a.1, 5.a.3, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

4.2.2.4. Pointe Coupee Parish Emergency

Operations Center and Traffic/Access Control Point

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.c.1, 3.d.1, 3.d.2, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None

- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

4.2.2.5. Point Coupee Parish School District

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRÉSOLVED: None

4.2.2.6. West Baton Rouge Parish Emergency

Operations Center and Traffic/Access Control Point

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.<u>1, 2.b.2, 2.c.1</u>; 3:a.1, 3.b.1, 3.c.1, 3.d.1, 3.d.2, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

4.2.2.7. West Feliciana Parish Emergency

Operations Center and Traffic/Access Control Point

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.c.1, 3.d.1, 3.d.2, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

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4.2.2.8. West Feliciana Parish School District

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

4.2.3. Support Jurisdictions

4.2.3.1. Zachary Fire Department Monitoring &

Decontamination Center

- a. MET: 1.e.1, 3.a.1, 6.a.1, 6.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 6.a.1, 6.b.1.

ISSUE NO.: 53-08-6a1-A-03

ISSUE: Reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers. (NUREG-0654, J.10.h., K.5.b)

CONDITION: A contaminated emergency worker's personal item (wristwatch) was not removed at the initial personnel monitoring station.

POSSIBLE CAUSE: Inadequate training and knowledge of procedures.

REFERENCE: NUREG-0654, K.5.b; East Baton Rouge Parish Emergency Response Procedure for Zachary Fire Department, Attachment 12.

EFFECT: Further spread of contamination to the emergency worker or monitors at the station may have occurred.

CORRECTIVE ACTION DEMONSTRATED: A correction on the spot was requested to review the disposition of personal items (wristwatch) which had

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not been removed from the contaminated emergency worker. Training was conducted by the utility representative and the monitor correctly redemonstrated the process for removal, tracking and disposition of personal items.

ISSUE NO.: 53-08-6b1-A-04

ISSUE: Facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment including vehicles. (NUREG_0654, K.5.b)

CONDITION: Improper speed and distance technique was used while surveying an emergency worker.

POSSIBLE CAUSE: Inadequate training on personnel surveying procedures.

REFERENCE: NUREG-0654, K.5.b.; East Baton Rouge Parish Emergency Response Procedure for Zachary Fire Department, Attachment 6.

EFFECT: Contamination may not have been detected causing further spread of contamination.

CORRECTIVE ACTION DEMONSTRATED: A correction on the spot was requested to review the proper techniques for speed and distance while surveying an individual. The utility representative reviewed and demonstrated the proper technique. The personnel monitoring team redemonstrated surveying the emergency worker and successfully completed the process in accordance to the procedures.

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c. DEFICIENCY: None

d. NOT DEMONSTRATED: None

e. PRIOR ISSUES - RESOLVED: None

f. PRIOR ISSUES - UNRESOLVED: None

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4.2.4. Private Jurisdictions

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4.2.4.1. EAS Radio Station WJBO

- a. MET: 5.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES RESOLVED: None
- f. PRIOR ISSUES UNRESOLVED: None

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APPENDIX 1

ACRONYMS AND ABBREVIATIONS

AAC	Accident Assessment Coordinator
AJIC	Alternate Joint Information Center
ARC	American Red Cross
ARCA	Areas Requiring Corrective Action
	Computer Assisted Design
DAC	Dose Assessment Coordinator
DRD	Direct Reading Dosimeter
EAS	Emergency Alert System
EBR	East Baton Rouge
EBRFD	East Baton Rouge Fire Department
EBRP	East Baton Rouge Parish
ECL	Emergency Classification Level
EFP	East Feliciana Parish
EMD	Emergency Management Director
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EOP	Emergency Operations Plan
EPA	Environmental Protection Agency
EPZ	Emergency Planning Zone
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FMT	Field Monitoring Teams
FTC	Field Team Coordinator
GE	General Emergency
ноо	Headquarters Operations Officer
IPM	Initial Personnel Monitor
IPZ	Ingestion Planning Zone
IRT	Initial Response Team
JIC	Joint Information Center
LDEQ	Louisiana Department Environmental Quality
NRC	Nuclear Regulatory Commission
PAD	Protective Action Decisions
PAR	Protective Action Recommendation
PAS	Protective Action Sections
PIO	Public Information Officer
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Services
RADEF	Radiological Defense Officer
RBS	River Bend Station
RC	Reception Center
REP	Radiological Emergency Preparedness
SAE	Site Area Emergency
SEL	Senior EOF Liaison

SEOC	State Emergency Operations Center
SOP	Standard Operating Procedures
T/ACP	Traffic and Access Control Point
TEDE	Total Effective Dose Equivalent
VMT [·]	Vehicle Monitoring Team
WBRP	West Baton Rouge Parish
WFP	West Feliciana Parish
WFSD	West Feliciana School District

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APPENDIX 2

EXERCISE EVALUATORS AND TEAM LEADERS

DATE: 2008-06-11, SITE: River Bend Station, LA

LOCATION	EVALUATOR	AGENCY		
Governor's Office of Homeland Security and Emergency Preparedness	*Ernie Boaze Ronald Bonner	ICF ICF		
Louisiana Department of Environmental Quality Headquarters	Ronald Bonner	ICF		
Louisiana Department of Environmental Quality EQF	*Richard Grundstrom David Seebart	ICF ICF		
Louisiana Department of Environmental Quality Field Monitoring Team One	*George Brozowski	EPA-R6		
Louisiana Department of Environmental Quality Field Monitoring Team Two	Jill Leatherman	ICF		
River Bend Alternate Joint Information Center	*Bill Bischof Robert Duggleby Morrison Jackson	DHS/FEMA ICF		
East Baton Rouge Parish Emergency Operations Center and Traffic/Access Control Point	Joe Howard *Al Lookabaugh	DHS/FEMA ICF		
Baton Rouge River Center Reception Center	Nan Calhoun Robert Duggleby *Chad Johnston Jill Leatherman	DHS/FEMA ICF DHS/FEMA ICF		
East Feliciana Parish Emergency Operations Center and Traffic/Access Control Point	*Nan Calhoun Linda Gee Chad Johnston	DHS/FEMA DHS/FEMA DHS/FEMA		
Pointe Coupee Parish Emergency Operations Center and Traffic/Access Control Point	Shyrlee Fox *James McClanahan	DHS/FEMA RVI ICF		
Point Coupee Parish School District	Shyrlee Fox	DHS/FEMA RVI		
West Baton Rouge Parish Emergency Operations Center and Traffic/Access Control Point	Lenora Borchardt *Marynette Herndon	ICF ICF		
West Feliciana Parish Emergency Operations Center and Traffic/Access Control Point	Mike Goldsworthy *Wendy Swygert	DHS-FEMA ICF		
West Feliciana Parish School District	Mike Goldsworthy	DHS-FEMA		
Zachary Fire Department Monitoring & Decontamination Center	Mike Goldsworthy *Joe Howard	DHS-FEMA DHS/FEMA		
EAS Radio Station WJBO	*Elsa Lopez	DHS/FEMA		
* Team Leader				

APPENDIX 3

River Bend Station Extent of Play

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2008 EVALUATED EXERCISE JUNE 11, 2008

EVALUATION AREA 1: <u>EMERGENCY OPERATIONS MANAGEMENT</u>

Sub-element 1.a – Mobilization

Criterion 1.a.1: OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner. (NUREG-0654, A.4; D.3, 4; E.1, 2; H.4)

Locations

State EOC, Louisiana Department of Environmental Quality Headquarters (LDEQ HQ), LDEQ at EOF (LDEQ EOF), Alternate Joint Information Center (Alternate JIC), East Baton Rouge Parish EOC, West Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, Pointe Coupee Parish EOC

Extent of Play

⁶ Partial participation at the State EOC will include the Governor's Office of Homeland Security & Emergency Preparedness (GOHSEP), LDEQ, and the Louisiana Department of Health and Hospitals (LDHH).

The JIC emergency response team will be pre-positioned near the Alternate JIC located in Baton Rouge and will mobilize and activate the facility at the Alert ECL.

ARCAs None

EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

Sub-element 1.b – Facilities

Criterion 1.b.1: Facilities are sufficient to support the emergency response. (NUREG-0654, H.3)

Locations

East Feliciana Parish EOC

None

Extent of Play

The East Feliciana Parish EOC is new facility which will be demonstrated.

ARCAs

2008 EVALUATED EXERCISE JUNE 11, 2008

EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

Sub-element 1.c - Direction and Control

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible. (NUREG-0654, A.1.d; A.2.a, b)

Locations 199

State EOC, LDEQ HQ, LDEQ EOF, East Baton Rouge Parish EOC, West Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC

Extent of Play

ARCAs None

EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

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Sub-element 1.d – Communications Equipment

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations. (NUREG-0654, F.1, 2)

Locations

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None

State EOC, LDEQ HQ, LDEQ EOF, Louisiana Department of Environmental Field Monitoring Team 1 (LDEQ FMT 1), Louisiana Department of Environmental Field Monitoring Team 2 (LDEQ FMT 2), Alternate JIC, East Baton Rouge Parish EOC, West Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, Pointe Coupee Parish EOC

Extent of Play

Note: Communications may be made with the LDEQ Environmental Radiation Laboratory for the purpose of meeting the communication needs of other players. However, the Radiation Laboratory will not be evaluated in this exercise.

ARCAs

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2008 EVALUATED EXERCISE JUNE 11, 2008

EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

Sub-element 1.e – Equipment and Supplies to Support Operations

Criterion 1.e.1: Equipment, maps, displays, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations. (NUREG-0654, H.7; J.10.a, b, e; J.11; K.3.a)

Locations

State EOC, LDEQ HQ, LDEQ EOF, LDEQ FMT 1, LDEQ FMT 2, Alternate JIC, East Baton Rouge Parish EOC, East Feliciana Parish EOC, Pointe Coupee Parish EOC, West Baton Rouge Parish EOC, West Feliciana Parish EOC, Zachary Fire Department Monitoring & Decontamination Center, Baton Rouge River Center Reception Center, Traffic/Access Control Points

Extent of Play

LDEQ FMTs will not don anti-contamination suits. Anti-contamination suits are available in the field team kits and will be demonstrated through discussion with the evaluator.

Dosimetry and KI are not applicable at the Alternate JIC.

OUT OF SEQUENCE DEMONSTRATION

Zachary Fire Department Monitoring & Decontamination Center will be demonstrated out of sequence from the main exercise activities on Monday, June 9, 2008 at approximately

6:00 PM. Participants may be pre-staged near the monitoring & decontamination center.

 Baton Rouge River Center Reception Center will be demonstrated out of sequence from the main exercise activities on Tuesday, June 10, 2008 at approximately <u>9:00 AM</u>. <u>Participants</u> will be pre-staged at or near the reception center.

<u>Correction-on-the-spot</u> will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted. Correction-on-the-spot at Parish EOC's are limited to areas outside the EOC operations area (i.e., emergency worker briefings and issue of dosimetry in other rooms).

ARCAs None

EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

Sub-element 2.a – Emergency Worker Exposure Control

2008 EVALUATED EXERCISE JUNE 11, 2008

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to insure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654, K.4; J.10.e, f)

Locations

State EOC, LDEQ EOF, East Baton Rouge Parish EOC, West Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, Pointe Coupee Parish EOC

Extent of Play

If the scenario does not warrant a discussion on either the authorization to administer KI or emergency worker (EW) exposure exceeding administrative limits, then the criteria shall be accomplished through an interview with the evaluator. Note: Parish decision-makers receive recommendations for KI and EW exposure from the State EOC.

ARCAs

EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

Sub-element 2.b. - Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions. (NUREG-0654, I.8, 10 and Supplement 3)

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Locations

State EOC, LDEQ EOF

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None

Extent of Play

The LDEQ EOF controller will interject simulated field monitoring data to the Dose Assessment Coordinator for the purpose of dose projection validation and verification through back calculations.

ARCAs None

2008 EVALUATED EXERCISE JUNE 11, 2008

EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

Sub-element 2.b. - Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency

Criterion 2.b.2: A decision making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PAD) for the general public (including the recommendation for the use of KI, if ORO policy). (NUREG-0654, J.9; J.10.f, m)

Locations

State EOC, East Baton Rouge Parish EOC, West Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, Pointe Coupee Parish EOC

Extent of Play

According to the State of Louisiana's policy, KI is not considered for the general public.

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ARCAs None

EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

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Sub-element 2.c - Protective Action Decisions Consideration for the Protection of Special Populations

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Criterion 2.c.1: Protective action decisions are made, as appropriate, for special population groups. (NUREG-0654, J.9; J.10.d, e)

Locations

East Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, Pointe Coupee Parish EOC, West Baton Rouge Parish EOC (if applicable)

Extent of Play

If the scenario does not warrant a discussion on protective action decisions for the protection of special populations, then the criteria shall be accomplished through an interview with the evaluator.

2008 EVALUATED EXERCISE JUNE 11, 2008

If the Resource Data Book at the West Baton Rouge Parish EOC does not list any special populations at the time of the exercise, the criteria shall be accomplished through an interview with an evaluator.

ARCAs

None

EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.a – Implementation of Emergency Worker Exposure Control

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Criterion 3.a.1: The OROs issue appropriate dosimetry and procedures, and manage radiological exposure to emergency workers in accordance with the plans and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. (NUREG-0654, K.3.a, b)

Locations

LDEQ EOF, LDEQ FMT 1, LDEQ FMT 2, East Baton Rouge Parish EOC, West Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, Pointe Coupee Parish EOC, Pointe Coupee Parish School District, West Feliciana Parish School District, Zachary Fire Department Monitoring & Decontamination, Baton Rouge River Center Reception Center

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Extent of Play

LDEQ FMTs will not don anti-contamination suits.

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OUT OF SEQUENCE DEMONSTRATION

- Zachary Fire Department Monitoring & Decontamination Center will be demonstrated out of sequence from the main exercise activities on Monday, June 9, 2008 at approximately
 <u>6:00 PM</u>. Participants may be pre-staged near the monitoring & decontamination center.
- Baton Rouge River Center Reception Center will be demonstrated out of sequence from the main exercise activities on Tuesday, June 10, 2008 at approximately <u>9:00 AM</u>. <u>Participants</u> will be pre-staged at or near the reception center.

<u>Correction-on-the-spot</u> will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted. Correction-on-the-spot at Parish EOC's are limited to areas outside the EOC operations area (i.e., emergency worker briefings and issue of dosimetry in other rooms).

<u>ARCAs</u>

2008 EVALUATED EXERCISE JUNE 11, 2008

70-07-3a1-A-01: To be demonstrated during this exercise at the LDEQ EOF.

EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.b – Implementation of KI Decision

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained. (NUREG-0654, J.10.e)

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Locations

East Baton Rouge Parish EOC, West Baton Rouge Parish EOC

Extent of Play

Note: There are no institutionalized individuals within the 10-mile EPZ affected areas of East Baton Rouge Parish or West Baton Rouge Parish. Decision-making and discussion will focus on emergency workers.

The capability to make KI available to emergency workers as well as the capability to accomplish distribution of KI consistent with decisions made will be demonstrated; however, actual distribution of KI will not be demonstrated. Emergency workers will be able to discuss with the evaluator their procedure on the use of KI and appropriate record-keeping process.

<u>Correction-on-the-spot</u> will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted. Correction-on-the-spot at Parish EOC's are limited to areas outside the EOC operations area (i.e., emergency worker briefings and issue of dosimetry in other rooms).

general sectors and

ARCAs None

EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.c. – Implementation of Protective Actions for Special Populations

Criterion 3.c.1 – Protective action decisions are implemented for special populations other than schools within areas subject to protective actions. (NUREG-0654, J.10.c, d, g)

Locations

2008 EVALUATED EXERCISE JUNE 11, 2008

East Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, Pointe Coupee Parish EOC, West Baton Rouge Parish EOC

Extent of Play

The EOCs will demonstrate the capability to alert and notify special population facilities, special populations and individuals according to plans and procedures, as applicable, and it will be accomplished through a discussion. Contact with a special facility will be simulated.

If the Resource Data Book at the West Baton Rouge Parish EOC does not list any special populations at the time of the exercise, the criteria shall be accomplished through an interview with an evaluator.

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EVALUATION AREA 3: <u>PROTECTIVE ACTION IMPLEMENTATION</u>

Sub-element 3.c. – Implementation of Protective Actions for Special Populations

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Criterion 3.c.2 – OROs/School officials implement protective actions for schools. (NUREG-0654, J.10.c, d, g)

Locations

Pointe Coupee Parish School District, West Feliciana Parish School District

Extent of Play

A school official from a selected school will report to the EOC and demonstrate the implementation of protective actions for the school population by describing to the evaluator the procedures that would be followed. The school official will discuss with evaluator the capability to alert and notify all schools according to plans and procedures, as applicable.

Using the method specified in procedures, one transportation provider for the school will be contacted. The transportation provider will report to the EOC. Implementation of transportation for schools will be demonstrated through a discussion. The transportation provider will not drive the route to the reception center.

The discussions with the school official and the transportation provider will occur outside of the EOC operations area after they report to the EOC. The discussions will occur at a time, as determined by the evaluator, when EOC activities do not require observation.

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2008 EVALUATED EXERCISE JUNE 11, 2008

<u>Correction-on-the-spot</u> will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted. Correction on-on-the-spot at Parish EOCs are limited to areas outside the EOC operations area, i.e., emergency worker briefings and issue of dosimetry in other rooms.

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ARCAs

None

EVALUATION AREA 3: <u>PROTECTIVE ACTION IMPLEMENTATION</u>

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Sub-element 3.d. – Implementation of Traffic and Access Control

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel. (NUREG-0654, J.10.g, j)

Locations

East Baton Rouge Parish EOC, West Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, Pointe Coupee Parish EOC

Extent of Play

This may be demonstrated out of sequence. One traffic and access control staff will demonstrate knowledge of their roles and responsibility by discussion with the evaluator. The discussion will be at or near the EOC. Travel to the traffic and access control point will not be demonstrated. If the scenario does not warrant this discussion at a location, the controller will inject data to stimulate a discussion.

<u>Correction-on-the-spot</u> will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted. Correction-on-the-spot at Parish EOC's are limited to areas outside the EOC operations area (i.e., emergency worker briefings and issue of dosimetry in other rooms).

<u>RCAs</u> None

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EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.d. – Implementation of Traffic and Access Control and the second statement of the second second

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Criterion 3.d.2: Impediments to evacuation are identified and resolved. (NUREG-0654, J.10.k)

2008 EVALUATED EXERCISE JUNE 11, 2008

Locations

East Baton Rouge Parish EOC, West Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, and Pointe Coupee Parish EOC

Extent of Play

Evaluation will be by discussion, or by controller interject, of the capability to identify and take appropriate actions to deal with impediments and may be conducted out-of-sequence.

ARCAs None

EVALUATION AREA 4: FIELD MEASURMENT AND ANALYSES

Sub-element 4.a – Plume Phase Field Measurement and Analyses

Criterion 4.a.1: The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radioiodine and particulate. (NUREG-0654, H.10; I.7, 8, 9)

Locations

LDEQ FMT 1, LDEQ FMT 2

Extent of Play

LDEQ FMTs will not don anti-contamination suits.

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<u>Correction-on-the-spot</u> will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted.

ARCAs None

EVALUATION AREA 4: FIELD MEASURMENT AND ANALYSES

Sub-element 4.a – Plume Phase Field Measurement and Analyses

Criterion'4.a.2: Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure. (NUREG-0654, H.12; I.8, 11; J.10.a)

2008 EVALUATED EXERCISE JUNE 11, 2008

 Locations

 LDEQ EOF

 Extent of Play

 ARCAs
 None

 EVALUATION AREA 4: FIELD MEASURMENT AND ANALYSES

 Sub-element 4.a – Plume Phase Field Measurement and Analyses

 Criterion 4.a.3: Ambient radiation measurement are made and recorded at appropriate

locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media. (NUREG-0654, I.9)

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Locations

LDEQ FMT 1, LDEQ FMT 2

Extent of Play

LDEQ FMTs will not don anti-contamination suits. Charcoal cartridges will be used for air sampling during this exercise. Note: Silver zeolite cartridges are available.

<u>Correction-on-the-spot</u> will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted.

ARCAs None

EVALUATION AREA 5: EMERGENCY NOTIFICATION & PUBLIC INFORMATION

Sub-element 5.a – Activation of the Prompt Alert and Notification System

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial

2008 EVALUATED EXERCISE JUNE 11, 2008

instructional message to the public must include as a minimum the elements required by current FEMA REP guidance. (10 CFR Part 50, Appendix E.IV.D & NUREG-0654, E.5, 6, 7)

Locations

State EOC, East Baton Rouge Parish EOC, West Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, Pointe Coupee Parish EOC, WJBO

Extent of Play

na sena de la companya de la company The alert and notification system, activation procedure will be demonstrated up to the point of activation. The siren activation will be simulated. • •

The State EOC will demonstrate through discussion the dissemination of the EAS message to the public. The State EOC will fax the EAS message to the Alternate JIC.

OUT OF SEQUENCE SITE ASSISTED VISIT

WJBO radio station – A site assisted visit will be performed Monday June 9, 2008 at 1:00 pm.

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ARCAs None

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EVALUATION AREA 5: EMERGENCY NOTIFICATION & PUBLIC INFORMATION

Sub-element 5.a – Activation of the Prompt Alert and Notification System

6.2 · · · · · ·

Criterion 5.a.3: Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. Backup alert and notification of the public is completed within 45 minutes following the detection by the ORO of a failure of the primary alert and notification system. (NUREG-0654, E.6, Appendix 3.B.2.c)

Locations

East Feliciana Parish EOC and the second production of the second s Extent of Play

The helicopter and pilot will pre-stage at the helipad located at the Sheriff's Annex on Highway Council and the second structure and the second s and the many content of the part of the property former is March & Barry

2008 EVALUATED EXERCISE JUNE 11, 2008

The pilot will launch when notified of the declaration of a General Emergency. The helicopter will complete the flyover of the PAS 9 exception area within approximately 45 minutes of the decision to notify the public of the emergency. The broadcast of the message will be simulated.

The EOC will demonstrate the availability of a second person to accompany the pilot to make the pre-scripted announcement; however the Entergy Controller will simulate this emergency worker in flight to accommodate aircraft loading and will read the message to the FEMA evaluator.

The Public Address system will be demonstrated after the flyover at the False River Air Park. The helicopter will land at the Air Park for the evaluator and controller to disembark. The evaluator and controller will be located near the launch pad to receive a simulated broadcast made from the helicopter in flight. The helicopter will launch and make an in-flight announcement test message similar to "This is a test." The evaluator and/or controller on the ground will signal when the broadcast is heard. When the demonstration is completed, the helicopter will return the evaluator and controller to the original launch point.

If a law enforcement priority prevents the use of the helicopter or the pilot or the helicopter is not available, the demonstration will be completed using the Pointe Coupee Parish helicopter and pilot. If the unavailability is short notice, the demonstration will be scheduled out of sequence at a later date to be determined.

If advance notice of the unavailability of the West Feliciana Parish helicopter is received, the Point Coupee Parish staging area for the demonstration is the False River Air Park.

None

EVALUATION AREA 5: <u>EMERGENCY NOTIFICATION & PUBLIC INFORMATION</u>

Sub-element 5.b – Emergency Information and Instructions for the Public and the Media

Criterion 5.b.1: OROs provide accurate emergency information and instructions to the public and the news media in a timely manner. (NUREG-0654, E.5, 7; G.3.a, G.4.c)

Locations

ARCAs

State EOC, Alternate JIC, East Baton Rouge Parish EOC, West Baton Rouge Parish EOC, East Feliciana Parish EOC, West Feliciana Parish EOC, Pointe Coupee Parish EOC

Extent of Play

Utility, State and Parish representatives will demonstrate the ability to provide emergency information and instructions to the public consistent with the scenario. News media will not be

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present. Selected personnel will simulate the role of reporters asking questions during briefings. Controllers will inject public phone team messages, media phone team messages and news briefing messages.

ARCAs

None

EVALUATION AREA 6: <u>SUPPORT OPERATION/FACILITIES</u>

Sub-element 6.a – Monitoring and Decontamination of Evacuees and Emergency Workers, and Registration of Evacuees

Criterion 6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers. (NUREG-0654, J.10.h; J.12; K.5.a)

Locations

Zachary Fire Department Monitoring & Decontamination Station, Baton Rouge River Center Reception Center

Extent of Play and the second se

OUT OF SEQUENCE DEMONSTRATION

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 Zachary Fire Department Monitoring & Decontamination Center will be demonstrated out of sequence from the main exercise activities on Monday, June 9, 2008 at approximately <u>6:00 PM</u>. <u>Participants may be pre-staged near the monitoring &</u> <u>decontamination center</u>.

Two emergency workers will be monitored for contamination. A controller will inject data for a simulated contamination level for one emergency worker. Decontamination will be evaluated by demonstration and further discussion.

Baton Rouge River Center Reception Center will be demonstrated out of sequence from the main exercise activities on Tuesday, June 10, 2008 at approximately <u>9:00 AM</u>. Participants will be pre-staged at or near the reception center.

The capability to monitor 20% of the West Feliciana Parish, East Feliciana Parish and East Baton Rouge Parish evacuees living in the 10-mile EPZ over a 12-hour period will be demonstrated. To meet 20% requires (20% of 20,189 population) a monitoring capability

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2008 EVALUATED EXERCISE JUNE 11, 2008

Six people will simulate evacuees for demonstration. One portal monitor will be set up and the 6 evacuees processed. One (male) of the six will be simulated contaminated. One (male) monitoring station for contaminated evacuees will be set up and the contaminated individual will be processed to the decontamination station. Decontamination will be evaluated by demonstration and further discussion.

Handling of potentially contaminated personal belongings will be demonstrated by discussion.

<u>Correction-on-the-spot</u> will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted.

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<u>ARCAs</u>

EVALUATION AREA 6: SUPPORT OPERATION/FACILITIES

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Sub-element 6.b – Monitoring and Decontamination of Emergency Worker Equipment

Criterion 6.b.1: The facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment including vehicles. (NUREG-0654, K.5.b)

Locations

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Zachary Fire Department Monitoring & Decontamination Station

Extent of Play

One emergency worker vehicle will be monitored for contamination. A controller will interject data for a simulated contamination level for one vehicle. Decontamination will be evaluated by discussion.

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<u>Correction-on-the-spot</u> will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted.

OUT OF SEQUENCE DEMONSTRATION

Zachary Fire Department Monitoring & Decontamination Center will be demonstrated out of sequence from the main exercise activities on Monday, June 9, 2008 at approximately <u>6:00 PM</u>. Participants may be pre-staged near the monitoring & decontamination center.

2008 EVALUATED EXERCISE JUNE 11, 2008

<u>ARCAs</u> N

None

EVALUATION AREA 6: <u>SUPPORT_OPERATION/FACILITIES</u>

Sub-element 6.c- Temporary Care of Evacuees

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities. (NUREG-0654, J.10.h; J.12)

Locations

McKinley Middle School (East Baton Rouge Shelter)

Extent of Play

OUT OF SEQUENCE DEMONSTRATION – The selected shelter will be evaluated by discussion and walk-through at 8:00 am on Tuesday June 9, 2008.

ARCAs None

GENERAL EXTENT-OF-PLAY (EOP):

- 1. With regard to last minute additions or changes to any previously approved Extent-of-Play, all suggested changes must be forwarded to the RAC Chair for approval.
- 2. The goal of all offsite response organizations (ORO) is to protect the health and safety of the public. This goal is achieved through the execution of appropriate plans and procedures. It is recognized that situations may arise that could limit the organizations in the exact execution of these plans and procedures.
- 3. In the event of an unanticipated situation, OROs are permitted to exercise flexibility in the implementation of their plans and procedures in order to successfully achieve the objective of protection of public health and safety and protection of the environment.
- 4. As a statement of fact, no ORO will deliberately deviate from its plans and procedures with the intent of avoiding responsibility.

References:

2008 EVALUATED EXERCISE JUNE 11, 2008

As indicated in the Extent-of-Play Agreement, the State of Louisiana requests the option to correct issues immediately as defined in FEMA Policy Paper, Strategic Review Steering Committee, Initiative 1.5, correct Issues Immediately, effective March 31, 2000, signed by Kay C. Goss, CEM, Associate Director for Preparedness, Training and Exercises. Acceptable locations/activities for on the spot correction are clearly indicated in the extent of play portion under each criterion.

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APPENDIX 4

STATE OF LOUISIANA

OFFSITE SCENARIO

FOR

RIVER BEND STATION

June 11, 2008

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Participating Organizations State of Louisiana East Baton Rouge Parish

East Feliciana Parish

Pointe Coupee Parish

I. <u>Purpose</u>

This exercise will be conducted for the purpose of testing the ability of the following organizations to address an emergency at the River Bend Station: the State of Louisiana through the Louisiana Department of Environmental Quality and the Governor's Office of Homeland Security and Emergency Preparedness; East Baton Rouge Parish; East Feliciana Parish; Pointe Coupee Parish; West Baton Rouge Parish; and West Feliciana Parish.

II. Objective

The objectives for offsite activities are listed in Attachment 1.

III. Summary of Events

Attachment 2 contains a detailed timeline of major onsite activities. The following is a summary of those events.

The initial conditions include the information that Div II diesel generator (D/G) was running parallel to the grid per procedure SOP-0053 and tripped at 0755, 5 minutes before the drill start. The drill will start at 0800. The first event after the crew has assumed the shift is a control rod drop accident. At approximately 0845, the Shift Manager (OSM) will receive a chemistry report that the reactor coolant sample analysis indicates activity greater than 300 μ Ci/gm dose equivalent I-131. An Alert will be declared at approximately 0845 to 0900 on fission product barrier category FA1-1.

At approximately 0940, a grid transient will cause spurious trips of CNM-P1A, CNM-P1C, CCS-P1A, and NJS-LDC1A supply breaker. The reactor will scram on lowering water level due to the loss of condensate (CNM) and feedwater (FWS). The RCIC injection system will initiate (manually or automatically) to maintain post scram reactor water level. The high pressure coolant injection system (HPCS) may initially inject if level lowers to -42" or if manually initiated. HPCS will be secured. Reactor pressure vessel (RPV) pressure will be controlled using main steam drains or safety relief valves (SRVs).

The RPV scram transient will result in a weld failure on the reactor coolant Recirculation system (Recirc or RCS) loop A pump suction line. Unidentified leakage will rise to approximately 200 gpm and a drywell (DW) 1.68 psid signal will occur at approximately 0945. The drywell high pressure 1.68 psid initiation setpoint is an indication of loss of the reactor coolant system barrier. At approximately 0945 to 1000 a Site Area Emergency will be declared on FS1 EAL 1 (FC1 and RC1), loss or potential loss of 2 barriers. The SAE will be declared within 15 minutes of reaching 1.68 psid.

At approximately 1118, the RCS leak at Recirc A line crack degrades to a line break between the suction valve B33-MOVF023A and the Recirc pump A. RCIC and CRD will inject but the magnitude of the leak is greater than the makeup. The drywell airlock door seal will fail and alarms will come in on control room panel P863 to alert operators. This is indication of drywell bypass leakage.

June 11, 2008

The crew will attempt to inject with HPCS but the injection valve E22-MOVF004 fails to reopen. Level will lower to < -162". top of active fuel (TAF), at approximately 1125 to 1130. After level lowers below TAF, area radiation monitors and the Containment / Drywell post accident monitor (PAM) indications will rise. Seven safety relief valves (SRVs) will be opened to emergency depressurize the RPV to enable low pressure emergency core cooling system (ECCS) injection. RHR A will inject but RHR B and C valves, LPCS injection valve, and HPCS injection valve fail to open. The Severe Accident Procedure (SAP) containment flooding will be entered when RPV level cannot be restored and maintained above -186 inches. The estimated time for SAP entry is around 1145. Control room supervisor decision making process will determine entry. General emergency conditions are met when the SAPs are entered and GE FG1-1 will be declared within 15 minutes of entering the SAPs. (FC1 and RC1 loss and PC2 potential loss) The containment and drywell post accident monitor readings will rise. Minimum PAR scenario 6 will be recommended.

The drywell airlock seals fail causing drywell bypass to the containment atmosphere. Containment integrity is maintained throughout the scenario. The activity in the containment is not scrubbed because of the drywell bypass. Radiation release is from the containment design leakage into the annulus and will be filtered by Standby Gas Treatment system prior to release to the environment.

HPCS injection valve will fail to open and after RPV depressurization, LPCS and LPCI B & C injection valves will fail to auto open once below the shutoff head due to MOV failures. RHR A SDC injection valve MOVF053A or injection valve MOVF042A may be opened after the low pressure interlocks clear.

NJS-SWG1A will be restored and the RCS leak will be isolated at approximately 1245 by closing the Recirc A suction valve MOVF023A. Level will be restored above TAF. The main plant effluent monitor reading will lower after restoring level.

At approximately 1330 to 1400, the simulator will be placed in FREEZE after verifying that all onsite and offsite objectives have been demonstrated.

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Scenario Timeline

0800 Initial Conditions

Plant operating at 100% power On-line 180 days.

• Div II work week.

Div II Diesel Generator (D/G) was started for a system operating procedure (SOP) run at 0755. The D/G started, ran for approximately 1 minute and 50 seconds and then shut down. No trip alarms were received. The only alarm received was the LUB OIL TEMP LOW alarm. On the local panel, the UNIT TRIPPED light came on, UNIT AVAILABLE EMERGENCY STATUS light on, SYNCHRONOUS light on and no other abnormal conditions. After the engine coast down to stop, the UNIT TRIP light went out with no operator actions. The 3rd RO and 1&C technician are at the D/G investigating. The system engineer was called but has not arrived.

The offgoing shift manager remembered a similar occurrence on the diesel generator last year caused by a problem with the logic board in the local control panel. He has not investigated any further.

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CNM-P1B out of service, motor removed

NJS-SWG1S and 1T are cross-tied with power from NPS-SWG1B. NJS-SWG1S tripped last night. The operator found HVL-CHLR1B and supply breaker ACB389 tripped but it couldn't be determined immediately that the chiller trip was the cause of the bus feeder breaker ACB380 trip. Operations racked out and danger tagged ACB380 and ACB389 as a precaution. After a visual inspection, operators cross-tied the S and T switchgear. All readings are normal. Work request was written.

Weather

- Wind direction 358
- Wind speed 4 mph
- Delta T +0.1
- Precipitation: heavy overcast, forecast is 60% chance of rain for this afternoon and tonight.

<u>NOTE</u>

The times indicated in the timeline are approximate. The time of scenario events may be affected by operator response in the simulator or by the timeliness of Emergency Response Facility activation and actions.

12

Event 1 Alert FA1-1 (FC-1 loss of fuel clad)

TIME	Event	CuesIndications	E-marked Description
IIME	Event.	Ues/Indications	Expected Response
0800	Investigation of DIV II D/G failure	(CR-2007-00784)	OSM/CRS/STA will determine Tech Spec
			applicability. (TS 3.8.9 and 3.8.1.1)
			The OSM will make notification per procedure
			OSP-46.
			The crew will pursue the cause of the D/G failure.
≈ 0820	Control Rod Drop Rod 3637	Rise in reactor power	Indications include a rise in Pre-treat. MSL
		Rising offgas pre-treat and	radiation, and turbine building monitors
		main steam line radiation	
l		levels	Rising radiation levels to indicate clad damage
			The OSM will direct chemistry to sample reactor
	· · · · ·		coolant
	Contingongy Controller Inject if	(A controller must be near the	The OSM will concult the FAL a
	Contingency Controller Infect in	ATC another must be near the	The USIVI will consult the EALS.
	the CRS or USM direct a manual	AIC operator and another	The crew will implement AOP-0061 section 5./
	scram at any time during or after this	near the CRS at the control	OSM/CRS/STA will call the reactor engineer to
	event, stop the action with the	rod drop event to inject this	the control room.
	following message: "For the	message if necessary)	
ļ	purpose of exercise progression	young the second second	
	control, do <u>not</u> insert a manual	a provide the second	
	scram; perform a controlled	and the second	
	shutdown using the applicable		
	GOP."	and the second	
0835	Controller Inject to OSM	Inject Message	The OSM/CRS/STA will review TS 3.4.8 action B
· ·	The OSM will receive a chemistry	Controller will tell the OSM	TS LCO to isolate MSL in 12 hrs
ļ	report from the controller that	that a time compression is	
	coolant sample results are 300	simulated for the sample	Review TS 3.7.4 for offgas. The offgas pretreat

TIME	Event	Cues/Indications	Expected Response
	µCi/gm dose equivalent I-131.	result For the purpose of the	will be less than TS.
	Controller in the simulator will	drill, a chemistry sample and	
	provide the cue to the OSM.	analysis is complete and	
		confirms TS limit is	
		exceeded.	
≈0835 to	CLASSIFICATION	The 15-min. clock for the	The Shift Manager will declare an ALERT FAI-I
0850	The Shift Manager will declare an	classification starts when	The Shift Manager, or designee, will request the
PI	Alert FA1-1 on FC1 loss of fuel clad	the OSM receives the	communicator to report to the control room.
	barrier (coolant sample analysis of	sample analysis report.	complete the short notification message form.
	300 µCi/gm dose equivalent l-131)	1.229 多元,1277年,2017月月月月月日。 1.129	announce the Alert in the control room, make a
	IAW EIP-2-001. Classification of	1.1911年代新史书 1.11月1日	plant announcement of the Alert and to activate all
	Emergencies.	and the set of the fail	facilities, and complete the Alert checklist in EIP-
	and the second	the second s	2-002. Classification Actions.
≈0850 to	NOTIFICATION	The 15-min. clock for the	The communicator will report to the simulator and
0905	The communicator will transmit the	notification starts at the	implement the checklist of EIP-2-006.
PI	short notification message form for	Alert declaration time.	Notifications, to notify the state and local
	Alert using ESP-COMM and		authorities using ESP-COMM. The Shift Manager
	activate the ERO paging system.	gasine and the second	will approve the short notification message. When
		and the second sec	directed, the communicator will activate the
			Emergency Response Organization using Dialogic
			paging system for an Alert.
≈ 0840 to	The OSM/CRS/STA will make		When notifications are made, the OSM will
0900	notifications per OSP-0046.		receive directions to start a controlled shutdown
	· · · · · · · · · · · · · · · · · · ·		per GOP-002.
	The chemistry technician and TSC		The TSC/CR Communicator will report to the
	ENS Communicator will report to	· · · ·	simulator and assume the ENS notification
	the simulator.		function.
· •			The TSC ENS Communicator will assume ENS
		· · · · · · · · · · · · · · · · · · ·	notification function and will relocate to the TSC

TIME	Event	Cues/Indications	Expected Response
			when operational.
	The EOF, TSC, and OSC will man		The Shift Manager/RM/ED will transfer the
	with minimum staffing and		Emergency Director (ED) functions to the ED in
	operability established within 45		the TSC. Emergency declaration, corrective
	minutes of the declaration.		actions, personnel protection The OSC will
			assume tracking and accountability for teams
		· · ·	dispatched.
	The JIC will man the alternate JIC.	······································	The EOF will assume the Recovery Manager
•			(RM) functions. State and local notification, dose
		1	assessment, and protective action
			recommendations (PAR) will be performed in the
			EOF.
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Event 2 Site Area Emergency FS1-1 (FC1 and RC1)

TIME	Event	Cues/Indications	Expected Response
0940	A grid transient occurs and CNM-P1A.	P680 alarm and	Loss of CNM and FWS injection and level will
	CNM-PIC, CCS-PIA, and NJS-	indication of trips	lower.
	SWG1A all trip.		
	The reactor scrams on either manual initiation or level 3.		Emergency operating procedures will be entered when RPV water level lowers to less than 9.7 inches.
	Approximately 200 gpm RCS leakage will start in the DW from a crack at a weld on Recirc A loop after the reactor scram.		
After 0940	After CNM trips. Level 2 initiations – HPCS. RCIC, and containment isolations		RCIC and HPCS will inject. HPCS will be secured or injection valve will auto close on level 8. RCIC will be capable of maintaining RPV level in the normal band.
			Radiation levels will rise in the RCIC room when the system starts due to the coolant activity.
0940- 1000	RCIC will inject after auto or manual initiation and CRD is available. If DW temperature cannot be maintained below 145° F, EOP ENC 20 may be used to restore the available DW/ unit coolar		HPCS injection valve E22-MOVF004 will fail to re- open after it is overridden closed from the auto initiation.

TIME	Event	Cues/Indications	Expected Response
≈0945-	DW high pressure 1.68 psid will be	The SAE declaration	The Emergency Director will declare a site area
1000	reached	clock starts when DW	emergency (SAE) on FS1-1 (FC1loss of fuel clad
		reaches 1.68 psid	and RC1 loss of reactor coolant boundary). The RM
PI	SAE FS1-1 (FC1 loss of fuel clad and		will direct and approve the notifications. The ED
	RC1 loss of reactor coolant boundary)		will direct an owner controlled area evacuation. The
	condition is met.		protected area evacuation will be simulated. The
			OCA evacuation notification by a Security Officer
			will be simulated.
	· · · · · · · · · · · · · · · · · · ·		The ED will demonstrate decision making for the
			egress point and an assembly area as required for
		A Standard Contraction	protective actions for plant personnel.
≈1000-	NOTIFICATION	The 15-min. clock for	The communicator will implement the checklist of
1015	The communicator (EOF) will transmit	the notification starts	EIP Notifications. to notify the state and local
	the short notification message form for	at the SAE	authorities using ESP-COMM
PI	SAE using ESP-COMM.	declaration time.	
	Protected Area evacuation and		The Security Coordinator in the TSC will verify
	accountability Simulated		accountability within 30 minutes of the declaration.
≈1030	The OSC team may attempt to reset		CNM will <u>not</u> be restored.
	and restore NPS SWG1A ACB14 and		
	15: however CNM A and C pumps		NJS-ACB21 breaker may be restored to cross-tie
	cannot be restarted. NJS-SWG1A		NJS-SWG1A to NJS-SWG1B. After the bus is re-
	supply breaker will <u>not</u> reset.		energized, the recirc valves B33-MOVF023A and
	and the second se		MOVF067A will partially close using the control
	e e e e e e e e e e e e e e e e e e e		switches on P680. The will not go full closed.
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Event 3 General Emergency FG1-1 (FC1 loss, RC1 loss and PC2 potential loss) **Cues/Indications** Event **Expected Response** TIME 1118 The crack in the A Recirc loop RPV level will lower. Containment and Drywell PAMs start to rise after loss of adequate core propagates to a line break. DW temperature and pressure rises. cooling. The leak is a crack on the A Recirc suction RPV level lowers to TAF, RCIC cannot line between the suction MOV and the pump. The maintain level and will be lost after the leak cannot be isolated because of loss of power to RPV is depressurized.⁴ the suction and discharge MOVs (NJS-SWG1A). And a set of the set of the set of the RHR A injection valve will open and inject when RPV water level will go to below TAF. 1125 to pressure interlocks are cleared. 1130 **Emergency Depressurization occurs** before level lowers to -186 inches. The seals fail on the drywell personnel airlock causing bypass leakage through the air lock seals to A 14-283 the containment atmosphere... Containment post-accident radiation Indication of gap release and clad damage after loss DRMS and ERIS ≈1135 monitors (PAM) RMS-RE16A and 16B indication. of adequate core cooling. and DW PAM RMS-RE20A and 20B readings rise. RPV level cannot be maintained above After the SAPs are entered, E12-MOVF053B will be ≈ 1145 opened. san tan sete -186 inches and SAP containment flooding will be entered. This is a The simulator controller will make adjustments to potential loss of containment. the rate of injection to try to maintain a balance somewhere between -210 inches and TAF after the SAPs are entered.

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TIME	Event	Cues/Indications	Expected Response
≈1145-	CLASSIFICATION	DRMS and ERIS	The Emergency Director will upgrade to a General
1200	The Emergency Director will declare a	indication	Emergency.
PI	General Emergency on FG1-1. loss of	15-min. clock starts	
	any 2 fission product barriers and a	when the SAPs are	
	potential loss of the third (loss – RC1	entered.	
	& FC1 and potential loss PC2). Entry		
	into SAP containment flooding is the	If SAPs are <u>not</u>	
	potential loss of containment PC2. If	entered, after the	
	the crew does not enter the SAPs, a GE	PAM setpoint is	
	condition will be met when	exceeded.	
	Containment post-accident radiation		and the second
	monitor(s) reads greater than 1E4		· · ·
	R/hour.		
~	The Recovery Manager will issue	The 15-min. clock for	The Recovery Manager will recommend PAR
PI	minimum PAR - Scenario 6. (Wind	the PAR starts after	scenario 6 and direct the communicator to send the
· ·	from 358 degrees, centerline sector J and	the GE is declared.	notification of GE and PAR.
· · ·	adjacent sectors H and K)		
·		<u> </u>	
~	NOTIFICATION	15-min. clock	The communicator will transmit the SNMF
PI (2)	The communicator (EOF) will transmit	notification of GE	
	the short notification message form for	and PAR starts at the	The Recovery Manager will complete the PAR
	GE and PAR using ESP-COMM.	GE declaration time	verification checklist
1.		and PAR decision	
		time.	

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TIME	Event	Cues/Indications	Expected Response
			PAR scenario 6 is the minimum PAR to evacuate 2
			mile radius (section 1) and 5 miles downwind
			(sections 4, 9, and 16). Shelter the 10 mile radius
		·	(sections 2, 3, 8, 5, 6, 7, 10, 11, 12, 13, 14, 15, 17,
			and 18)
			Evacuate schools, institutions, and recreation areas
		an a	in the 5 mile radius.
≈1230 -	Fuel Clad damage	Rising radiation level	Fuel clad damage will be simulated to increase after
1245	RMS-RE16A and 16B will reach	on area monitors.	level lowers and stays below the top of active fuel.
:-	approximately IE4 R/hr	PAMs, and main plant	
	a state of the second	exhaust.	
1120 -	Some ECCS injection valves fail to	Cannot open using	E12-MOVF042B and E12-MOVF042C fail to open.
1300	open on the initial open signal.	control switches in the	Failure mode is the pressure switch and interlock for
1		control room.	low header pressure to allow opening.
	E12-MOVF042A or F053A will be		E21-MOVF005 will fail to open, bent valve stem
ł	opened after emergency		causing binding
l .	depressurization and the recirc loop	р р	
l	line break		
			E12-MOVF053B may be partially opened after the
l			SAPs are entered to maintain level between -162 and
			-210 and then fully opened at approximately 1245
			E22-MOVE004 was overridden closed after the
			initial loss of CNM and FWS.
~1240 -	Leak is isolated by closing B33-	<u> </u>	An OSC team successfully closes the MOVs by
1245	MOVF023A and B33-MOVF067A.		driving them closed from the breakers.
1.4.75.7			B33-MOVF023A - NHS-MCC2A bkr 1D
			B33-MOVF067A - NHS-MCC2A bkr 5D
~1245	E12-MOVF053B may be fully opened		HPCS E22-MOVF004 will be opened manually by
~1275	LIPCS injection value will be opened		an OSC team

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TIME	Event	Cues/Indications	Expected Response
	Radiation levels will stabilize in the		A PAR upgrade is not expected. Weather conditions
-	after the core is covered.		radiation release will not require a PAR beyond minimum PAR.
≈1330 – 1400	Place the Simulator in FREEZE (if all onsite and offsite objectives have been demonstrated)		The EOF EP controller will coordinate with LDEQ to ensure all offsite objectives have been demonstrated before terminating the exercise. LDEQ will verify by contact with controllers in the state and local EOCs.