



Waterford 3 Steam Electric Station Biennial Plume Phase Exercise After Action Report/Improvement Plan

Exercise Date: March 15, 2022

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Table of Contents

Executive Summary	1
Section 1: Exercise Overview	2
Section 2: Analysis of Capabilities.....	3
2.1 Summary Results of Assessment	3
2.2 Detailed Results of Exercise Evaluation.....	8
Appendix A: Exercise Timeline	14
Appendix B: Participating Organizations	16
Participating Organizations.....	16
Appendix C: Planning & Evaluation Teams	18
Planning & Evaluation Teams.....	18
Appendix D: Acronyms and Abbreviations.....	20
Appendix E: Extent of Play Agreement and Scenario	23
Extent of Play Agreement.....	23
Scenario	48
Appendix F: Improvement Plan	58

Executive Summary

On March 15, 2022, the U.S. Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA), Region 6, evaluated a Plume Pathway Exercise (PPX) for the 10-mile Emergency Planning Zone (EPZ) surrounding the Waterford 3 Steam Electric Station (W3). In addition to the PPX exercise, a medical services drill was evaluated on February 23, 2022.

During the W3 PPX, FEMA assessed the ability of state and local officials to implement plans and procedures to protect the public in the event of a radiological incident at W3. This biennial exercise is part of the FEMA Radiological Emergency Preparedness Program. This program ensures that adequate capabilities exist to prevent, protect against, mitigate the effects of, respond to, and recover from incidents involving commercial nuclear power plants. This exercise implemented the revised NUREG 0654/FEMA-REP-1, Rev. 2 document and the 2019 Radiological Emergency Preparedness Program Manual (RPM). The previous exercise at this site was a Plume Pathway Exercise conducted on November 20, 2019. The qualifying emergency preparedness exercise was conducted on February 8, 1984.

This report contains the final written evaluation of the W3 PPX and a medical services drill. The state and local organizations demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no Level 1 and no Level 2 Findings observed. However, as a result of this exercise, three Plan Issues were identified. As indicated in this report, one Plan Issue has been closed.



Section 1: Exercise Overview

Exercise Name	2022 Waterford 3 Steam Electric Station (W3) Biennial Plume Phase Exercise
Exercise Dates	March 15, 2022
Scope	A full-scale exercise, planned for one day at designated offsite response organizations (OROs) locations and Waterford 3 Steam Electric Station. Additionally, a medical services drill was evaluated.
Mission Area(s)	Protection, Response
Core Capabilities	Operational Coordination Environmental Response/Health and Safety Situational Assessment Operational Communications Public Information and Warning On-Scene Security, Protection, and Law Enforcement
Objectives	Emergency Operations Management Exposure Control Alert and Notification Detect, Measure, Sample, Analyze, and Assess Operate
Threat or Hazard	Release of radiological materials from a commercial nuclear power plant.
Scenario(s)	Plume Pathway Exercise Medical Services Drill
Sponsor	Louisiana Department of Environmental Quality Louisiana Governor's Office of Homeland Security and Emergency Preparedness St. Charles Parish Office of Homeland Security and Emergency Preparedness St. John Parish Office of Homeland Security and Emergency Preparedness Waterford 3 Steam Electric Station
Participating Organizations	Agencies at the local, state, and federal level participated in this exercise. Voluntary organizations and private organizations also participated. A complete list of participating agencies and organizations is attached in Appendix B.

Section 2: Analysis of Capabilities

2.1 Summary Results of Assessment

Table 1 below includes the assessment activity objectives, capability targets, selected core capabilities, and status of each capability target evaluated during the Waterford 3 Steam Electric Station full scale exercise.

Each jurisdiction and functional entity were evaluated based on the demonstration of core capabilities and capability targets. Capability targets are listed, and the demonstration status of those capability targets are indicated by the use of the following terms:

- **Met (M):** The jurisdiction or functional entity performed all activities under the objective/capability target to the level required per the work plan and/or the extent of play agreement, with no Level 1 or Level 2 Findings evaluated under that objective/capability target during the current activity and no unresolved prior Level 2 Finding(s).
- **Level 1 Finding (L1):** An observed or identified inadequacy of organizational performance during an assessment activity that could cause a determination 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.
- **Level 2 Finding (L2):** An observed or identified inadequacy of organizational performance during an assessment activity that is not considered, by itself, to adversely impact public health and safety.
- **Plan Issue (P):** An observed or identified inadequacy in the OROs emergency plan/implementing procedures, rather than in that of the OROs performance.
- **Not Demonstrated (N):** For a justifiable reason, the jurisdiction or functional entity did not perform assessment activities under the objective/capability target as specified in the extent of play agreement.
- **Not Applicable (N/A):** The objective/capability target does not apply to the jurisdiction.

Table 1. Summary Results of Capability Targets

Venue	Capability Target	Core Capability	Status
Objective 1: Emergency Management Operations			
Joint Information Center	1.1	Operational Coordination	M
St. John Parish Emergency Operations Center (EOC)	1.1	Operational Coordination	M
St. Charles Parish EOC	1.1	Operational Coordination	M
Louisiana Department of Environmental Quality (LDEQ)	1.1	Operational Coordination	M
W3 Emergency Operations Facility (EOF)	1.1	Operational Coordination	M
Louisiana State Emergency Operations Center (SEOC)	1.1	Operational Coordination	M
St. John Parish EOC	1.2	Operational Coordination, Environmental Response/Health and Safety	M
St. Charles Parish EOC	1.2	Operational Coordination, Environmental Response/Health and Safety	M
Louisiana Department of Environmental Quality (LDEQ)	1.2	Operational Coordination, Environmental Response/Health and Safety	M
W3 EOF	1.2	Operational Coordination, Environmental Response/Health and Safety	M
Louisiana SEOC	1.2	Operational Coordination, Environmental Response/Health and Safety	M



Venue	Capability Target	Core Capability	Status
W3 EOF	1.3	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
Louisiana SEOC	1.3	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
St. John Parish EOC	1.4	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
St. Charles Parish EOC	1.4	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
Louisiana SEOC	1.4	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
Louisiana SEOC	1.5	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
St. Charles Parish EOC	1.5	Operational Coordination, Environmental Response/Health and Safety	M
St. John Parish EOC	1.5	Operational Coordination, Environmental Response/Health and Safety	M
Objective 2: Exposure Control			
St. Charles Parish EOC	2.1	Operational Coordination, Environmental Response/Health and Safety	M
St. John Parish EOC	2.1	Operational Coordination, Environmental Response/Health and Safety	M



Venue	Capability Target	Core Capability	Status
Louisiana SEOC	2.1	Operational Coordination, Environmental Response/Health and Safety	P
W3 EOF	2.1	Operational Coordination, Environmental Response/Health and Safety	M
W3 EOF	2.2	Operational Coordination, Environmental Response/Health and Safety	M
Field Monitoring Team One	2.2	Operational Coordination, Environmental Response/Health and Safety	M
Field Monitoring Team Two	2.2	Operational Coordination, Environmental Response/Health and Safety	M
St. Charles Parish EOC	2.2	Operational Coordination, Environmental Response/Health and Safety	M
St. John Parish EOC	2.2	Operational Coordination, Environmental Response/Health and Safety	M
Louisiana SEOC	2.2	Operational Coordination, Environmental Response/Health and Safety	M
Ochsner Medical Center	2.2	Operational Coordination, Environmental Response/Health and Safety	M
St. Charles Parish Hospital Emergency Medical Services (EMS)	2.2	Operational Coordination, Environmental Response/Health and Safety	M
Objective 3: Alert and Notification			



Venue	Capability Target	Core Capability	Status
Joint Information Center	3.1	Operational Coordination, Operational Communications	M
Field Monitoring Team One	3.1	Operational Coordination, Operational Communications	M
Field Monitoring Team Two	3.1	Operational Coordination, Operational Communications	M
St. Charles Parish EOC	3.1	Operational Coordination, Operational Communications	M
St. John Parish EOC	3.1	Operational Coordination, Operational Communications	M
Louisiana Department of Environmental Quality (LDEQ)	3.1	Operational Coordination, Operational Communications	M
W3 EOF	3.1	Operational Coordination, Operational Communications	M
Louisiana SEOC	3.1	Operational Coordination, Operational Communications	M
St. Charles Parish EOC	3.2	Public Information and Warning	P
St. John Parish EOC	3.2	Public Information and Warning	M
WWL/EAS Station	3.2	Public Information and Warning	M
Joint Information Center	3.3	Public Information and Warning	M
St. Charles Parish EOC	3.3	Public Information and Warning	M
St. John Parish EOC	3.3	Public Information and Warning	M
Objective 4: Detect, Measure, Sample, Analyze, and Assess			
W3 EOF	4.1	Environmental Response/Health and Safety	M
Field Monitoring Team One	4.2	Environmental Response/Health and Safety	M



Venue	Capability Target	Core Capability	Status
Field Monitoring Team Two	4.2	Environmental Response/Health and Safety	M
W3 EOF	4.5	Environmental Response/Health and Safety	M
Objective 5: Operate			
Ochsner Medical Center	5.3	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M
St. Charles Parish Hospital EMS	5.3	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M
St. Charles Parish EOC	5.4	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M
St. John Parish EOC	5.4	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M
Louisiana SEOC	5.4	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M

2.2 Detailed Results of Exercise Evaluation

2.2.1 JOINT INFORMATION CENTER

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 1.1, 3.1, 3.3
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

2.2.2 WATERFORD 3 EMERGENCY OPERATIONS FACILITY

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 1.1, 1.2, 1.3, 2.1, 2.2, 3.1, 4.1, 4.5
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

2.2.3 LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY HEADQUARTERS

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 1.1, 1.2, 3.1
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

2.2.4 LOUISIANA STATE EMERGENCY OPERATIONS CENTER

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 1.1, 1.2, 1.3, 1.4, 1.5, 2.1, 3.1, 5.4
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUE: 2.1, 5.4

ISSUE NUMBER: 70-22-2.1-P-01

CAPABILITY TARGET: Emergency Worker Exposure Control Management

CONDITION: Louisiana Department of Environmental Quality Procedures do not include actions to address considerations for occupational exposure when assigning emergency response duties.

POSSIBLE CAUSE: Procedures may not have been updated to incorporate guidance in the 2019 Radiological Emergency Preparedness Manual (RPM).

PLANNING REFERENCES: NUREG-0654/FEMA-REP-1, Rev. 2 (K.2)



EFFECT: Occupational exposures may not be considered for occupational workers being assigned emergency duties that may also lead to exposure.

RECOMMENDATION: Add language to procedures that addresses how occupational exposures and emergency exposures are considered when assigning emergency duties. Consider adding language to coordinate management of emergency response exposure/dose with the individual responsible for managing occupational exposure/dose.

ISSUE NUMBER: 70-22-5.4-P-02

CAPABILITY TARGET: Traffic & Access Control

CONDITION: The current Louisiana Peacetime Radiological Response Plan (LPRRP) does not have procedures for the State of Louisiana to coordinate the restrictions of air, water, and rail in the event of an emergency at a nuclear power facility. Additionally, the current plan does not provide a process to notify the public of the restrictions once in place. Both residents and transient populations need to know that an emergency exists so they can take protective actions. Additionally, businesses in the area, airports, factories may need to cease operations.

POSSIBLE CAUSE: The process and responsibility for restricting air, water, and rail is not included in the current plans and procedures.

PLANNING REFERENCES: NUREG-0654/FEMA-REP-1, Rev. 1, Rev. 2 (J.11.c, J.11.e, O.1)

EFFECT: Restrictions to air, water, and railways may not be implemented and possible exposure to individuals may occur. In addition, the general public would not be notified of these restrictions, causing confusion and unnecessary calls into the local and State Emergency Operations Centers.

CORRECTIVE ACTION TAKEN: The updated plans and procedures include the process of coordination, responsibility, and details of air, water and rail restrictions. These procedures have been reviewed and approved by FEMA Region 6 RAC Chair. Additionally, the procedure includes steps to take to inform the Public Information Officers of the actions taken.

e. NOT DEMONSTRATED: None

f. PRIOR ISSUES - RESOLVED: None

g. PRIOR ISSUES - UNRESOLVED: None

2.2.5 ST. JOHN PARISH EMERGENCY OPERATIONS CENTER

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 1.2, 1.4, 1.5, 2.1, 3.2. 5.4 1.1, 2.2 including Equipment, 3.1, 3.3
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

2.2.6 ST. CHARLES PARISH EMERGENCY OPERATIONS CENTER

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 1.2, 1.4, 1.5, 2.1, 3.1, 1.1, 2.2 including Equipment, 5.4, 3.2, 3.3
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: 3.2

ISSUE NUMBER: 70-22-3.2-P-03

CONDITION: The Emergency Alert System (EAS) message St. Charles Parish disseminated indicated Protective Action Section (PAS) C4 (St. John Parish) should monitor and prepare. However, St. John Parish EAS pre-scripted messages indicated PAS C4 was ordered to shelter-in-place. The EAS station aired PAS C4 should monitor and prepare Vs. Shelter-in-Place.

POSSIBLE CAUSE: St. Charles Parish Implementing Procedures may not include a verification and approval process for the dissemination of EAS messages with WWL/EAS radio station. It was noted, that both Parishes generated their own EAS messages and may not have coordinated the messaging together.

PLANNING REFERENCES: NUREG-0654-FEMA-REP-1, Rev. 2 (E.4)

EFFECT: If the correct message didn't get broadcast to the general public, this could cause confusion.

RECOMMENDATION: St. Charles Parish has an appropriate template in their plans to ensure the required information is included in the EAS message. Include steps in your current Parish procedures for coordination with St. John Parish to ensure the EAS messages being sent to the radio station are concise. Consider adding a few lines to indicate siren sounding time and EAS broadcast time to the existing templates.



- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

2.2.7 FIELD MONITORING TEAM ONE

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 2.2, 3.1, 4.2
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

2.2.8 FIELD MONITORING TEAM TWO

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 2.2, 3.1, 4.2
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

2.2.9 WWL/EAS RADIO STATION

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 3.2
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

2.2.10 OCHSNER MEDICAL CENTER

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 2.2, 5.3
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

2.2.11 ST. CHARLES PARISH HOSPITAL EMERGENCY MEDICAL SERVICES

In summary, the status of DHS/FEMA capability targets for this location is as follows:

- a. MET: 2.2, 5.3
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

Appendix A: Exercise Timeline

Emergency Classification Level Event or Action	Time Utility Declared	Time that Notification Was Received or Action Was Taken All times are Central Standard Time (CST)						
		W3 EOF	GOHSEP /SEOC	LDEQ HQ	JIC	St. Charles Parish EOC	St. John Parish EOC	EAS Station/ WWL
Unusual Event								
Alert	0849	0900	0855	0855	0855	0855	0855	
Site Area Emergency	1146	1146	1155	1155	1154	1155	1155	
General Emergency	1245	1245	1300	1259	1250	1259	1259	
Release of Rad Material Started	1146	1146	1155	1155	1250	1155	1146	
Release of Rad Material Terminated	NA	NA	NA	NA	On Going	NA	NA	
Facility Declared Operational		1117	855	NA	0950	0915	0912	
Declaration of State/Local Emergency		NA	1201	1201	1226	1056	1059	
Exercise Terminated		1426	1503	1503	1440	1456	1503	
Early Precautionary Action Recommendations and/or PADS:					1215	1119	1207	
1. Relocate School Children		NA	NA	NA	1215	East Bank 1119/ West Bank 1314	1207	
2. Restrict Boating Traffic			1255			1259 Local rivers	1207	
3. Restrict Air and Rail Traffic			1255			1259	1207	
4. Close Parks								
5. Livestock Advisory						NA	NA	
1 st Siren Activation:						1407	1407	1407
1 st EAS/EBS Message:						1412	1412	1412
1 st Protective Action Recommendation:		1249			1250	1321	1321	



Emergency Classification Level Event or Action	Time Utility Declared	Time that Notification Was Received or Action Was Taken All times are Central Standard Time (CST)						
		W3 EOF	GOHSEP /SEOC	LDEQ HQ	JIC	St. Charles Parish EOC	St. John Parish EOC	EAS Station/ WWL
1 st Protective Action Decision[s] – Parish PAD[s]: Evac: A1, A2, B1, B2, C1, D1, D2 Shelter in Place; A4, C2, C3, C4 Monitor & Prepare: A3, B3, B4, D3, D4					1334	1333	1327	
2 nd Siren Activation:						NA	NA	
2 nd EAS/EBS Message:						NA	NA	
KI Administration Decision EWs		1255	1327/1415			1322	1325/1427	
KI Administration Decision for Institutionalized						1349	1427	

Appendix B: Participating Organizations

Participating Organizations

Federal Organizations
FEMA Region 6
U.S. Nuclear Regulatory Commission
State Organizations
Louisiana Governor's Office of Homeland Security and Emergency Preparedness
Louisiana Department of Environmental Quality
Louisiana Department of Health
Louisiana Office of State Fire Marshall
Risk Jurisdiction
St. John Parish Office Homeland Security and Emergency Preparedness
St. John Parish President
St. John Parish Public Works
St. John Parish Sheriff's Office
St. John Parish Planning & Zoning
St. John Parish School Board
St. John Parish Transportation
St. John Parish Fire Department
St. Charles Parish Office Homeland Security and Emergency Preparedness
St. Charles Parish President
St. Charles Parish Sheriff Office
St. Charles Parish Fire Association
St. Charles Parish Public Works
St. Charles Parish Emergency Medical Services
St. Charles Parish Public Schools

Risk Jurisdiction (Continued)
St. Charles Parish Planning and Zoning
St. Charles Parish Transportation
Private Organizations
Waterford 3 Electric Steam Station
Entergy Operations, Inc.
WWL/EAS Radio Station

Appendix C: Planning & Evaluation Teams

Planning & Evaluation Teams

Region 6 Leadership		
Regional Assistance Committee Chair FEMA Region VI	Oscar Martinez	
Sr. Site Specialist FEMA Region VI	Linda Gee	
Venue/Location	Evaluation Team/Team Lead	Agency
Joint Information Center	Brian Hasemann (Team Lead) Christopher Cammarata	FEMA Region II FEMA Region II
W3 Emergency Operations Facility	Timothy Pflieger (Team Lead) James Hickey	FEMA Region VI ICF
LDEQ Headquarters	Nan Williams (Team Lead) Misty Chance (OJT)	FEMA Headquarters FEMA Region VI
Louisiana State Emergency Operations Center	Brad DeKorte (Team Lead) Nan Williams	FEMA Region VI FEMA Headquarters
Field Monitoring Team One	George Brozowski	EPA
Field Monitoring Team Two	Jeffrey Clark	FEMA Region VII
St John Parish Emergency Operations Center	Lisa Rink (Team Lead) Gregory Voss Heather Wilson Melisa Ogrodnik (OJT)	FEMA Headquarters FEMA Region VII FEMA Region VII FEMA Region VI
St. Charles Parish Emergency Operations Center	Kevin Malone (Team Lead) Jeremy Jones Michele Sturman Barbara Thomas Synthia Buice (OJT)	FEMA Region II FEMA Region X FEMA Region II FEMA Region I FEMA Region VI



Venue/Location	Evaluation Team/Team Lead	Agency
WWL Radio Station	Taneeka Hollins (Team Lead)	FEMA Region I
Ochsner Medical Center	Timothy Pflieger (Team Lead) Synthia Buice (OJT)	FEMA Region VI FEMA Region VI
St. Charles Parish Hospital Emergency Medical Services	Linda Gee (Team Lead)	FEMA VI



Appendix D: Acronyms and Abbreviations

Acronym	Description
AAC	Accident Assessment Coordinator
CC	Communications Center
CDE	Committed Dose Equivalent
CPM	Counts Per Minute
DRD	Direct Reading Dosimeter
EAS	Emergency Alert System
EAL	Emergency Action Level
ECL	Emergency Classification Level
EMD	Emergency Management Director
EMS	Emergency Medical Services
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EP	Emergency Preparedness
EPA	Environmental Protection Agency
EPZ	Emergency Planning Zone
EW	Emergency Worker
FEMA	Federal Emergency Management Agency
FMT	Field Monitoring Team
FST	Field Sampling Teams
FTC	Field Team Coordinator
GE	General Emergency
GOHSEP	Louisiana Governor's Office of Homeland Security and
GPS	Global Positioning System
HOO	HQ Operations Officer
HPT	Health Physics Technicians
IC	Incident Commander
ICP	Incident Command Post
IP	Improvement Plan
JIC	Joint Information Center
KI	Potassium Iodide
LDEQ	Louisiana Department of Environmental Quality
LDH	Louisiana Department of Health
LPRRP	Louisiana Peaceful Radiological Response Plan



Acronym	Description
LWIN	Louisiana Wireless Information Network
Minimum	Minimum Detectable Activity
milliroentgen/milli	milliroentgen/millirem
NRC	US Nuclear Regulatory Commission
Off-site Response	Off-site Response Organizations
OSL	Optically Stimulated Luminescent
OMC	Ochsner Medical Center
PAD	Protective Action Decision
PAG	Protective Action Guide
PAR	Protective Action Recommendation
PAS	Protective Action Section
PIO	Public Information Officer
PDAFN	Persons with Disabilities & Access/Functional Needs
PPE	Personal Protective Equipment
PPX	Plume Phase Exercise
PRA	Permanent Response Areas
PRD	Permanent Reading Dosimeter
R	Roentgen
RACES	Radio Amateur Civil Emergency Services
RASCAL	Radiological Assessment System for Consequence
REA	Radiation Emergency Area
REP	Radiological Emergency Preparedness
REPP	Radiological Emergency Preparedness Program
REP&R	Radiological Emergency Planning & Response
RO	Radiological Officer
RPM	Radiological Emergency Preparedness Program
RSO	Radiation Safety Officer
SCP	St. Charles Parish
SEC	LDEQ Secretary Designee
SEL	Senior EOF Liaison
SEOC	State Emergency Operations Center
SJP	St. John Parish
SMRAP	Southern Mutual Radiation Assistance Plan
SOP	Standard Operating Procedure



Acronym	Description
SRD	Self-Reading Dosimeter
TEDE	Total Effective Dose Equivalent
T/ACP	Traffic & Access Control Point
TLD	Thermoluminescent Dosimeter
UCG	Unified Command Group
UMR	Unit Manning Roster
URI	Unified Rascal Interface
VHF	Very High Frequency
W3	Waterford 3 Steam Electric Station
Waterford 3	Waterford 3 Steam Electric Station



Appendix E: Extent of Play Agreement and Scenario

Extent of Play Agreement

Waterford 3 Station Extent of Play 2022

Initial Release
July 26, 2021



REVISION LOG

#	Date	Revision
0	7/26/2021	Initial Release
1	8/23/2021	Added locations to CT 2.1,3.1,4.5,5.4, updated relief request to CT 5.3, added parish shelter interview to CT 5.1
2	1/4/2022	Added location and updated Extent of Play to CT 1.5.
3	2/9/2022	Updated Subtitles and entered "TBD" for Reception Center Dates
4	2/18/2022	Added Pilot/Exception Areas to CT 2.2; Added locations to CT 2.2, 5.2
5	3/1/2022	CT 3.2, 5.1, 5.2 – updated Extent of Play time and dates



DISCLAIMER

Real life emergencies, including SARS-CoV-2 (COVID-19) pandemic precautions, take precedence over this demonstration. Under no circumstances will the Governor's mandates on COVID-19 restrictions be violated. In case of an emergency, demonstration will be rescheduled for a later date.

**STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION****2022 BIENNIAL EXERCISE**
March 15, 2022

OBJECTIVES AND CAPABILITY TARGETS**1: EMERGENCY OPERATIONS MANAGEMENT****1.1. Mobilization**

- ❖ **Capability Targets:** Individuals with roles in support of emergency operations are identified, alerted, and mobilized in a timely manner. (NUREG-0654/FEMA-REP-1, Rev. 2: A.1, A.1.a, A.1.b, A.3, A.4, A.5, C.1, C.2, C.2.a, C.2.b, C.3, E.1, E.1.a, E.3, F.1.c, H.6, O.1)
- ❖ **Locations:** Louisiana State Emergency Operations Center (SEOC), Louisiana Department of Environmental Quality (LDEQ) Headquarters (LDEQ HQ), LDEQ Emergency Operations Facility (EOF), Joint Information Center (JIC), St. Charles Parish EOC, St John the Baptist Parish EOC
- ❖ **Extent of Play**
 - LDEQ players will be pre-staged on the 8th floor of LDEQ Headquarters.
 - Subject to scenario and time constraints, LDEQ will begin fully mobilizing as early as UE.
- ❖ **Level 2 Findings** – None
- ❖ **Core Capabilities:** Operational Coordination

1.2. Direction and Control

- ❖ **Capability Targets:** Individuals in leadership roles provide direction and control to the portion of the overall response effort for which they are responsible. (NUREG-0654/FEMA-REP-1, Rev. 2: A.1, A.1.a, A.1.b, A.1.c, A.2, A.3, A.5, C.2, C.2.a, C.2.b, C.3, D.4, E.1, H.6, O.1)
- ❖ **Locations:** LDEQ HQ, Louisiana State Emergency Operations Center (SEOC), LDEQ EOF, St. Charles Parish EOC, St. John the Baptist Parish EOC
- ❖ **Extent of Play:**
- ❖ **Level 2 Findings:** – None
- ❖ **Core Capabilities:** Operational Coordination; Environmental Response/Health and Safety

**STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION****2022 BIENNIAL EXERCISE**
March 15, 2022**1.3. Protective Action Recommendations**

- ❖ **Capability Targets:** Appropriate PARs are selected based on available information and other factors. (NUREG-0654/FEMA-REP-1, Rev. 2: D.4, J.7, J.8, J.8.b, J.9, O.1)
- ❖ **Location:** Louisiana State Emergency Operations Center (SEOC), LDEQ Emergency Operations Facility (EOF)
- ❖ **Extent of Play:**
 - The LDEQ EOF controller may inject simulated field monitoring data to the Dose Assessment Coordinator for the purpose of dose projection validation and verification through back calculations.
 - If the scenario does not warrant a discussion on protective actions for the protection of persons with disabilities and access/functional needs, then the criteria shall be accomplished through an interview with the evaluator.
 - In accordance with the State of Louisiana's policy, KI is not considered for the general public.
- ❖ **Level 2 Findings:** – None
- ❖ **Core Capabilities:** Operational Coordination; Situational Assessment; Environmental Response/Health and Safety

1.4. Protective Action Decisions for the Plume Phase

- ❖ **Capability Targets:** Appropriate PADs are based on available information for the plume phase. (NUREG-0654/FEMA-REP-1, Rev. 2: D.1.b, D.4, J.6, J.7, J.8, J.8.b, J.10, J.10.a, J.10.b, J.11.c-g, O.1)
- ❖ **Locations:** Louisiana SEOC, St. Charles Parish EOC, St. John the Baptist Parish EOC
- ❖ **Extent of Play:**
 - According to the State of Louisiana's policy, KI is not considered for the general public
- ❖ **Level 2 Findings:** – None
- ❖ **Core Capabilities:** Operational Coordination; Situational Assessment; Environmental Response/Health and Safety

1.5. Protective Action Decision Implementation for the Plume Phase

- ❖ **Capability Targets:** Implement decisions for those populations and areas subject to plume phase protective actions. (NUREG-0654/FEMA-REP-1, Rev. 2: A.4, C.2.a, G.1, J.11, J.11.a, J.11.b, J.11.c, J.11.e, J.11.g, O.1)
- ❖ **Locations:**
 - St. Charles Parish EOC, St. John the Baptist Parish EOC, Louisiana SEOC

**STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION****2022 BIENNIAL EXERCISE**
March 15, 2022

-
- ❖ **Extent of Play:**
 - If the scenario does not warrant a discussion on protective action decisions for the protection of persons with disabilities and access/functional needs, then the criteria shall be accomplished through an interview with the evaluator.
 - If the scenario does not warrant a discussion on KI decisions, then the criteria will be accomplished through an interview with the evaluator.
 - In accordance with the State of Louisiana's policy, KI is not considered for the general public.
 - Louisiana SEOC will determine initial KI recommendations and dissemination.
 - **Correction-on-the-spot** will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.
 - ❖ **Level 2 Findings:** – None
 - ❖ **Core Capabilities:** Operational Coordination; Environmental Response/Health and Safety

1.6. Protective Action Decisions for the Post-Plume Phase

- ❖ **Capability Targets:** Appropriate PADs are based on available information for the post-plume phase. (NUREG-0654/FEMA-REP-1, Rev. 2: J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, O.1)
- ❖ **Locations:** N/A
- ❖ **Extent of Play:**
- ❖ **Level 2 Findings:** – N/A
- ❖ **Core Capabilities:** N/A

1.7. Protective Action Decision Implementation for the Post-Plume Phase

- ❖ **Capability Targets:** Implement decisions for those populations and areas subject to post-plume phase protective actions. (NUREG-0654/FEMA-REP-1, Rev. 2: C.2, J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, O.1)
 - ❖ **Locations:** N/A
 - ❖ **Extent of Play:**
 - ❖ **Level 2 Findings:** – N/A
 - ❖ **Core Capabilities:** N/A
-



STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION

2022 BIENNIAL EXERCISE
March 15, 2022



2. EXPOSURE CONTROL

2.1. Emergency Worker Exposure Control Decision-Making Process

- ❖ Capability Targets: A decision-making process involving consideration of appropriate factors and necessary coordination is used to ensure that an exposure control system is in place for emergency workers, and includes the use of radioprotective drugs and procedures to authorize emergency exposures in excess of the PAGs. (NUREG-0654/FEMA-REP-1, Rev. 2: C.2.c, H.11, K.2, K.2.b, K.3, K.3.a, M.1.b, M.8, O.1)
- ❖ Locations:
Louisiana SEOC, LDEQ EOF, St. Charles Parish EOC, St. John the Baptist Parish EOC
- ❖ Extent of Play:
 - If the scenario does not warrant a discussion on the authorization to administer KI, then the criteria shall be accomplished through an interview with the evaluator.
 - If the scenario does not warrant a discussion on 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 Louisiana SEOC.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Operational Coordination; Environmental Response/Health and Safety

2.2. Emergency Worker Exposure Control Management

- ❖ Capability Targets: Emergency workers manage radiological exposure and dose in accordance with the plans/procedures. (NUREG-0654/FEMA-REP-1, Rev. 2: C.2.c, H.11, H.11.b, K.2.b, K.3, K.3.a, M.1.b, O.1)
- ❖ Locations:
Louisiana SEOC, LDEQ EOF, LDEQ FMT 1, LDEQ FMT 2, St. Charles Parish EOC, St. John the Baptist Parish EOC, MYU Heliport in Luling, La
- ❖ Extent of Play:
 - Area dosimetry will be used in both Parish EOCs.
 - TLD/OSLs will be available for all emergency workers. Simulated TLDs will be used in place of spare OSL or TLD badges when applicable.



STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION

2022 BIENNIAL EXERCISE
March 15, 2022

- St. John the Baptist Parish and St. Charles Parish Traffic and Access Control Points personnel will be located at the parish EOCs, where they will demonstrate the criteria via interview. No travel to Traffic and Access Control Points will be performed.
- 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.
- Dosimetry will be issued to participating helicopter pilot and crew by St. John the Baptist Radiological Officer.
- Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Operational Coordination; Environmental Response/Health and Safety

3. ALERT AND NOTIFICATION

3.1. Communications

- ❖ Capability Targets: Communication processes, systems, and equipment are sufficient to support emergency operations. (NUREG-0654/FEMA-REP-1, Rev. 2: E.1.a, E.3, F.1, F.1.a, F.1.b, F.1.c, F.3, O.1)
- ❖ Locations:
Louisiana SEOC, LDEQ HQ, LDEQ EOF, LDEQ Field Monitoring Team (FMT) 1, LDEQ FMT 2, Joint Information Center (JIC), St. Charles Parish EOC, St. John the Baptist Parish EOC
- ❖ Extent of Play:
 - The LDEQ Contract Radiation Laboratory will not be evaluated in this exercise, and any communication with it will be simulated.
 - Communications to the Southern Mutual Radiation Assistance Plan (SMRAP) states, except for TX and AR, will be simulated.
 - Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Operational Coordination; Operational Communications



STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION

2022 BIENNIAL EXERCISE
March 15, 2022

3.2. Alert and Notification of the Public

- ❖ Capability Targets: Alert and notification of the public is completed in a timely manner. (NUREG-0654/FEMA-REP-1, Rev. 2: E.2, E.4, E.5, F.3, O.1)
- ❖ Locations: St. Charles Parish EOC, St. John the Baptist Parish EOC, WWL Radio, 400 Poydras Street, Suite 800, New Orleans, LA 70130
- ❖ Extent of Play:
 - Following the decision to activate the alert and notification system, the activation procedures will be demonstrated up to the point of activation. The Siren activation will be simulated.
 - Simulation of the siren activation will be in real time sequence with the transmission of the Emergency Alert Systems EAS message.
 - Upon receipt of the messages, the WWL radio station official will demonstrate the procedure to broadcast the message. The message will be read to the evaluator, but will not be broadcasted.
 - St. John the Baptist Parish exception area {Quadrant TBD} will be demonstrated via interview out-of-sequence, on a date TBD. The alerting along this route will be simulated. Announcement will be a testing phrase and not an actual alert message. The flight pattern will not be demonstrated.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Public Information and Warning

3.3 Emergency Information and Instructions for the Public and News Media

- ❖ Capability Targets: Accurate emergency information and instructions are provided to the public and the news media in a timely manner. (NUREG-0654/FEMA-REP-1, Rev. 2: E.2, E.4, E.5, G.1, G.2, G.3, G.3.a, G.4, G.5, O.1)
- ❖ Locations:

JIC, St. Charles Parish EOC, St. John the Baptist 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 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.

**STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION****2022 BIENNIAL EXERCISE**
March 15, 2022**3.2. Alert and Notification of the Public**

- ❖ Capability Targets: Alert and notification of the public is completed in a timely manner. (NUREG-0654/FEMA-REP-1, Rev. 2: E.2, E.4, E.5, F.3, O.1)
- ❖ Locations: St. Charles Parish EOC, St. John the Baptist Parish EOC, WWL Radio, 400 Poydras Street, Suite 800, New Orleans, LA 70130
- ❖ Extent of Play:
 - Following the decision to activate the alert and notification system, the activation procedures will be demonstrated up to the point of activation. The Siren activation will be simulated.
 - Simulation of the siren activation will be in real time sequence with the transmission of the Emergency Alert Systems EAS message.
 - Upon receipt of the messages, the WWL radio station official will demonstrate the procedure to broadcast the message. The message will be read to the evaluator, but will not be broadcasted.
 - St. John the Baptist Parish exception area {Quadrant TBD} will be demonstrated via interview out-of-sequence, on a date TBD. The alerting along this route will be simulated. Announcement will be a testing phrase and not an actual alert message. The flight pattern will not be demonstrated.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Public Information and Warning

3.3 Emergency Information and Instructions for the Public and News Media

- ❖ Capability Targets: Accurate emergency information and instructions are provided to the public and the news media in a timely manner. (NUREG-0654/FEMA-REP-1, Rev. 2: E.2, E.4, E.5, G.1, G.2, G.3, G.3.a, G.4, G.5, O.1)
- ❖ Locations:
JIC, St. Charles Parish EOC, St. John the Baptist 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 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.



STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION

2022 BIENNIAL EXERCISE
March 15, 2022

- Rumor control will be demonstrated at the JIC.
- The Louisiana State EOC does not disseminate subsequent messages to the public. All messages should come through the JIC.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Public Information and Warning

4. DETECT, MEASURE, SAMPLE, ANALYZE, AND ASSESS

4.1. Field Monitoring Teams Management

- ❖ Capability Targets: FMTs are managed to obtain information to help characterize the release, locate and track the airborne radiological plume, and control contamination. (NUREG-0654/FEMA-REP-1, Rev. 2: H.11, H.13, I.5, I.6, I.9, I.10, M.7, M.8, O.1)
Locations: LDEQ EOF
- ❖ Extent of Play:
 - LDEQ FMT Coordinator, Dose Assessors, and other LDEQ EOF personnel may be presented with controller injects as needed them to characterize the release.
 - The LDEQ EOF controller may inject simulated field monitoring data to the Dose Assessment Coordinator for the purpose of dose projection validation and verification through back calculations.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety

4.2. Plume Phase Measurements and Sampling

- ❖ Capability Targets: FMTs make, record, and report measurements of ambient radiation to appropriate authorities; radioiodine and particulate samples are collected. (NUREG-0654/FEMA-REP-1, Rev. 2: H.9, H.11, H.11.a, H.11.b, H.12, H.13, I.2, I.5, I.6, I.7, I.8, I.9, I.10, O.1)
- ❖ Locations: LDEQ FMT 1, LDEQ FMT 2
- ❖ Extent of Play:
 - LDEQ FMTs will not don anti-contamination suits during the exercise. Anti-contamination suits are available in field team kits. Proper donning and doffing techniques will be demonstrated by one member, either prior to deployment or

**STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION****2022 BIENNIAL EXERCISE**
March 15, 2022

following termination of the exercise. FMTs will don gloves and booties during the exercise.

- Charcoal cartridges instead of silver zeolite will be used for air sampling. Silver Zeolite are included in FMT kits and will be available for inspection by evaluators.
- Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety

4.3. Post-Plume Phase Measurements and Sampling

- ❖ Capability Targets: FMTs take measurements and samples to support assessment of the ingestion exposure pathway, and to support reentry, relocation, and return decisions. (NUREG-0654/FEMA-REP-1, Rev. 2: H.11, H.11.a, H.11.b, H.12, H.13, I.2, I.5, I.6, I.8, M.7, O.1)
- ❖ Locations: N/A
- ❖ Extent of Play:
 - LDEQ will not participate in post-plume phase sampling.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety

4.4. Laboratory Operations

- ❖ Capability Targets: The laboratory performs radiological analyses to support protective action decision-making. (NUREG-0654/FEMA-REP-1, Rev. 2: C.4, H.11, H.11.b, H.13, I.2, I.6, M.7, O.1)
- ❖ Locations: NONE
- ❖ Extent of Play:
 - The LDEQ Contract Radiation Laboratory will not be evaluated in this exercise, and any communication with it will be simulated.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety

**STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION****2022 BIENNIAL EXERCISE**
March 15, 2022**4.5. Plume Phase Analysis and Dose Assessment**

- ❖ Capability Targets: Dose assessment considers all available information including plant conditions, environmental conditions, field monitoring data, sample analysis results, and dose projection calculations. (NUREG-0654/FEMA-REP-1, Rev. 2: A.3, H.13, I.6, I.8, I.10, K.3, O.1)
- ❖ Locations: LDEQ Emergency Operations Facility (EOF)
- ❖ Extent of Play:
 - The LDEQ EOF controller may inject simulated field monitoring data, if required.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety

4.6. Post-Plume Phase Sampling Plan Development and Analysis

- ❖ Capability Targets: Post-plume phase assessment considers all available information, including environmental conditions, field monitoring data, sample analysis results, and dose projection calculations. (NUREG-0654/FEMA-REP-1, Rev. 2: A.3, H.13, I.2, I.6, I.8, I.10, J.12, J.14.b, J.14.c, K.3, M.7, M.8, O.1)
- ❖ Locations: N/A
- ❖ Extent of Play:
 - LDEQ will not conduct post-plume sampling.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities:

5. OPERATE**5.1. Monitoring, Decontamination, Sheltering, and Registration of Evacuees**

- ❖ Capability Targets: Facilities, equipment, and procedures are in place and utilized to provide monitoring, decontamination, identification, temporary shelter, congregate care, and registration of evacuees. (NUREG-0654/FEMA-REP-1, Rev. 2: J.11.d, J.13, K.4, O.1)
- ❖ Locations: Alario Reception Center, Chappapeela Sports Park Reception Center, Lafourche Ag Center Reception Center
- ❖ Extent of Play:
 - Participants will be pre-staged at or near the reception center.
 - Demonstration of criteria will be performed out of sequence at the following locations on the following dates:



STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION

2022 BIENNIAL EXERCISE
March 15, 2022

- Alario Reception Center, time and dates TBD

John A Alario Event Center, 2000 Segnette Blvd, Westwego, LA 70094

The capability to monitor 20% of Protective Response Areas D1, D2, D3 of the 10-mile EPZ over a 12-hour period will be demonstrated. The population of these sections is 19,783. Twenty percent of this population is 3,957. To meet 20%, requires a monitoring capability of 6 evacuees per minute.

- Lafourche Ag Center Reception Center, March 30, 2022, at 6:00PM

Lafourche AgCenter, 115 Texas Street, Raceland, LA 70394

The capability to monitor 20% of Protective Response Areas C1, C2, C3, C4 of the 10-mile EPZ over a 12-hour period will be demonstrated. The population of these sections is 3,278. Twenty percent of this population is 656. To meet 20%, requires a monitoring capability of 1 evacuee per minute.

- Chappapeela Sports Park Reception Center, times and dates TBD

Chappapeela Sports Park, 19325 Hipark Blvd., Hammond, LA 70403

The capability to monitor 20% of Protective Response Areas A1, A2, A3 of the 10-mile EPZ over a 12-hour period will be demonstrated. The population of these sections is 31,260. Twenty percent of this population is 6,252. To meet 20%, requires a monitoring capability of 9 evacuees per minute.

- Per the REP Manual, a minimum of six evacuees will be monitored at each location. Six people will simulate evacuees for the demonstration. At least one portal monitor will be set up and the six evacuees processed. One of the six will be simulated contaminated. One monitoring station for contaminated evacuees will be set up and the contaminated individual will be processed through decontamination. Handling of potentially contaminated personal belongings will be demonstrated by discussion.
- Participation with Department of Children and Family Services may only take place at one of the Reception Center Demonstrations, which is TBD.
- Demonstration of the State shelter will be performed out of sequence via interview with GOHSEP on a date and time TBD.
- Demonstrations of the Hammond, Lafourche, and West Jefferson parish shelters will be performed out of sequence via phone interview on a dates and times TBD.
- Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted

- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Mass Care Services

**STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION****2022 BIENNIAL EXERCISE**
March 15, 2022**5.2. Monitoring and Decontamination of Emergency Workers, Equipment, and Vehicles**

- ❖ Capability Targets: Facilities, equipment, and procedures are in place and utilized to provide monitoring and decontamination of emergency workers and their equipment and vehicles. (NUREG-0654/FEMA-REP-1, Rev. 2: K.4, O.1)
- ❖ Locations: Lafourche Fire Department
- ❖ Extent of Play:
 - This capability target will be performed out of sequence in conjunction with the Lafourche Ag Center Reception Center Demonstration. Any specific questions related to the EWMDs will occur via interview, immediately following the Lafourche Ag Center Demonstration. This criteria will be performed on March 30, 2022.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety, Mass Care Services

5.3. Transportation and Treatment of Contaminated, Injured Individuals

- ❖ Capability Targets: Transport contaminated, injured individuals to medical facilities with the capability to monitor and decontaminate. (NUREG-0654/FEMA-REP-1, Rev. 2: C.2.d, F.2, H.11, H.12, J.2, K.3, K.4, L.1, L.3, L.4, O.1)
- ❖ Locations: West Jefferson Hospital
- ❖ Extent of Play:
 - West Jefferson Hospital will be evaluated out of sequence on a date TBD.
 - The ambulance service will pick up the victim at a pre-determined location, TBD.
 - Removal of victim's clothing will be simulated.
 - Decontamination will be performed on and around wound areas that will be unclothed, and other areas if necessary. Intrusive bioassay samples will be simulated. No actual surgical procedures, X-ray, drawing of blood samples, etc. will be conducted.
 - Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety

**STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION****2022 BIENNIAL EXERCISE**
March 15, 2022**5.4. Traffic and Access Control**

- ❖ Capability Targets: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel. (NUREG-0654/FEMA-REP-1, Rev. 2: H.12, J.8, J.8.b, J.10, J.10.a, J.11.c, J.11.e, J.11.f, J.14.d, J.14.e, M.1.b, O.1)
- ❖ Locations: St. Charles Parish EOC, St. Charles Parish T/ACP, St. John the Baptist Parish EOC, St. John the Baptist Parish T/ACP, Louisiana SEOC, JIC
- ❖ 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 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 initiate a discussion.
 - Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted. Correction-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).
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Operational Coordination; On-Scene Security, Protection, and Law Enforcement

GENERAL EXTENT-OF-PLAY (EOP):

- A. 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.
- B. 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.
- C. 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.



STATE OF LOUISIANA / WATERFORD 3 NUCLEAR STATION

2022 BIENNIAL EXERCISE
March 15, 2022

- D. As a statement of fact, no ORO will deliberately deviate from its plans and procedures with the intent of avoiding responsibility.

REFERENCES:

Radiological Emergency Preparedness Program Manual - FEMA P-1028 / December 2019



WATERFORD 3 STEAM ELECTRIC STATION

2022

MEDICAL DRILL (MS-1)

February 23, 2022

Evaluated Organizations

**OCHSNER MEDICAL CENTER JEFFERSON HWY CAMPUS
OCHSNER ST CHARLES PARISH HOSPITAL, EMERGENCY MEDICAL
SERVICE**



WATERFORD 3 2022 OUT OF SEQUENCE EVALUATION

MS1

February 23, 2022

REVISION LOG

#	Date	Revision
1	2/17/22	Incorporated LDEQ comments
2	2/18/22	Removed CT 5.2

DISCLAIMER

Real life emergencies take precedence over this demonstration. In case of an emergency, demonstration will be rescheduled for a later date.



WATERFORD 3 2022 OUT OF SEQUENCE EVALUATION

MS1

February 23, 2022

TABLE OF CONTENTS

<u>Table of Contents</u>	PAGE
I. Introduction	4
II. Extent of Play	5
III. Objectives & Capability Targets	5
IV. Guidelines	7
V. Narrative Summary	8
VII. Sequence of Events	9
VIII. Messages	10
IX. Drill Team Assignments	29
X. Drill Team Instructions	30



WATERFORD 3 2022 OUT OF SEQUENCE EVALUATION
MS1
February 23, 2022

I. INTRODUCTION

In the interest of assuring the health and safety of the general public near the Waterford 3 Steam Electric Station, in the event of a radiological emergency, Waterford 3 periodically conducts drills jointly with the Federal, State and local agencies.

This manual contains the scenario of activities and supporting data describing the Waterford 3 Emergency Preparedness Medical Services Drill.

This scenario was developed by postulating events that will require response by offsite organizations.

During this drill, the support organizations will respond to the simulated events and conditions that have been selected to provide the level of activity necessary to meet the scenario objectives.

Ochsner Jefferson Hwy Medical Center Campus and Ochsner St Charles Parish Hospital EMS will participate in this drill.

Drill participants will have no prior knowledge of the sequence of events. The drill scenario will allow those individuals and agencies assigned to respond during a radiological emergency to demonstrate their performance according to current emergency preparedness plans and procedures.

The scenario is a mechanism by which selected drill controllers will initiate and evaluate the activities of the drill participants. The individual drills will be initiated as shown below and each are expected to last approximately three hours.

Participating organizations are shown in Section IV, |Guidelines, of this manual.

A. SCHEDULE

1. Wednesday, February 23, 2022
08:00 Ochsner Jefferson Hwy Medical Center

**WATERFORD 3 2022 OUT OF SEQUENCE EVALUATION**

MS1

February 23, 2022

II. EXTENT OF PLAY

The Extent of Play can be found in the Extent of Play for the Waterford 3 Biennial Exercise.

III. CAPABILITY TARGETS and OBJECTIVES

The following general objectives and guidelines have been developed for the Offsite Drills, which are scheduled as shown below.

- A. Ochsner Jefferson Hwy Medical Center Campus
 - 1. Demonstrate the capability to activate and staff emergency facilities for emergency operations.
 - 2. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.
 - 3. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.
 - 4. Demonstrate the adequacy of the equipment, procedures, supplies, and personnel of medical facilities responsible for treatment of contaminated, injured, or exposed individuals.
- B. Ochsner St Charles Parish Hospital EMS
 - 1. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.
 - 2. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.
 - 3. Demonstrate the adequacy of vehicles, equipment, procedures and personnel for transporting contaminated, injured or exposed individuals.

2. EXPOSURE CONTROL**2.2. Emergency Worker Exposure Control Management**

- ❖ Capability Targets: Emergency workers manage radiological exposure and dose in accordance with the plans/procedures. (NUREG-0654/FEMA-REP-1, Rev. 2: C.2.c, H.11, H.11.b, K.2.b, K.3, K.3.a, M.1.b, O.1)
- ❖ Locations:
Ochsner Jefferson Hwy Medical Center and Ochsner St Charles Parish Hospital EMS

**WATERFORD 3 2022 OUT OF SEQUENCE EVALUATION****MS1****February 23, 2022**

- ❖ Extent of Play:
 - Dosimeters and a simulated TLD will be issued to participating ambulance crew members by Waterford 3 Steam Electric Station personnel. Hospital personnel will be issued dosimeters and TLDs at the hospital.
 - **Correction-on-the-spot** will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Operational Coordination; Environmental Response/Health and Safety

5. OPERATE**5.3 Transportation and Treatment of Contaminated, Injured Individuals**

- ❖ Capability Targets: Transport contaminated, injured individuals to medical facilities with the capability to monitor and decontaminate. (NUREG-0654/FEMA-REP-1, Rev. 2: C.2.d, F.2, H.11, H.12, J.2, K.3, K.4, L.1, L.3, L.4, O.1)
- ❖ Locations: |
- ❖ Ochsner Jefferson Hwy Medical Center and Ochsner St Charles Parish Hospital EMS
- ❖ Extent of Play:
 - The ambulance service will pick up the victim at a pre-staged location, Waterford 3 Steam Electric Station
 - Removal of victim's clothing will be simulated.
 - Decontamination will be performed on and around wound areas that will be unclothed, and other areas if necessary. Intrusive bioassay samples will be simulated. No actual surgical procedures, X-ray, drawing of blood samples, etc. will be conducted.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety



WATERFORD 3 2022 OUT OF SEQUENCE EVALUATION
MS1
February 23, 2022

IV. GUIDELINES

To define the scope and extent of participation by organizations and participants, the following guidelines are established in order to meet the objectives listed in Section III of this manual.

1. The medical drill will be conducted on February 23, 2022.
2. Participation is limited to Ochsner Jefferson Hwy Medical Center Emergency Room Staff, Ochsner St Charles Parish Hospital EMS Staff, Waterford 3 Radiological Protection Staff, and the Drill Control Team. No other Waterford 3 plant staff will participate.
3. Communications between Waterford 3 plant and Ochsner Jeffeson Hwy Medical Center are simulated by the Drill Control Team.
4. A simulated contaminated injured radiological worker is staged at the Ochsner Jeffeson Hwy Medical Center at the beginning of the drill.
5. The drill is initiated by the Drill Control Team simulating the dispatch of the Ochsner St. Charles Hospital EMS to transport the patient to Ochsner Jefferson Hwy Medical Center. The Drill Control Team then contacts Ochsner Jeffeson Hwy Medical Center simulating a report of a medical emergency.
6. All communications are preceded and ended with "THIS IS A DRILL."
7. The simulated medical emergency continues until the patient is decontaminated and treated by the medical staff.
8. A critique is conducted immediately following the termination of the drill.
9. Drill specific guidelines will be addressed in their individual appendices.

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Scenario

STATE OF LOUISIANA
Waterford 3 Biennial Exercise
March 15, 2022

STATE OF LOUISIANA

OFFSITE SCENARIO

FOR

WATERFORD 3 STEAM ELECTRIC STATION

March 15, 2022

Participating Organizations

State of Louisiana
St. Charles Parish
St. John the Baptist Parish



STATE OF LOUISIANA
Waterford 3 Biennial Exercise
March 15, 2022

WATERFORD 3 SES 2021 NRC Exercise
October 26, 2021

Simulated Forecast
Provided By The
National Weather Service
for Tuesday October 26, 2021

TIME: 08:00 - 14:00

The extended forecast for the New Orleans area and Southeast Louisiana is as follows:

For Tuesday morning, lows are in the mid 70's; afternoon highs will be in the mid to high 80's. Chances for rain are 30%. Skies are partly cloudy with winds between 7 and 10 miles per hour. Winds are from the West towards the East.

STABILITY CLASS

- A EXTREMELY UNSTABLE
- B MODERATELY UNSTABLE
- C SLIGHTLY UNSTABLE
- D NEUTRAL
- E SLIGHTLY STABLE
- F MODERATELY STABLE
- G EXTREMELY STABLE



STATE OF LOUISIANA
Waterford 3 Biennial Exercise
March 15, 2022

TIMELINE

Event #	Date	Estimated Time	Event	Expected Actions
1	3/15	0700	Initial Drill Activities Message: 1.1 Crew Brief Message: 1.2 Initial Drill Announcement Message: 1.3 Scenario Conditions	
2	13/15	0806	Security – Heightened Awareness (No Eplan Entry) Shift Manager receives a phone call from the Security Shift Supervisor stating Security has entered Heightened Awareness due to vehicle parked on the old entrance hill. Message: 2.1 Abandoned Vehicle at SOCA Fence Line	Shift Manager should enter OP-901-523, Security Events, and to EP-001-001, Recognition and Classification of Emergency Conditions. No Emergency Classification should be declared as the abandoned vehicle does not meet the definition of a Security Condition, credible threat or Hostile Action.
3	3/15	0832	Hot Leg 2 Temperature Indicator (RC ITI121X) Failed Low T _{AVG} will affect PZR Level Setpoint Message: 3.1 RC Loop 2 Hot Leg Temp Indicator Failed Low	Control Room should enter OP-901-110, Pressurizer Level Control Malfunction and take manual control to maintain Pressurizer level. Operators should select a non faulted channel on RX Reg and place Pressurizer Control back to automatic.

**STATE OF LOUISIANA**
Waterford 3 Biennial Exercise
March 15, 2022

Event #	Date	Estimated Time	Event	Expected Actions
4	3/15	0837	Emergency Classification: Alert Alert due to release of asphyxiant gas into Condensate Polisher Building. Message: 4.1 Compressed gas cylinder leak in CPB Message: 4.2 Plant Announcement Message: 4.3 ERO Activation Message: 4.4 Contingency Classification Alert	The Shift Manager should direct a plant announcement notifying plant personnel to stay clear of the Condensate Polisher Building and then review EALs for potential escalation. Crew should refer to OP-901-520, "Toxic Chemical Release". After reviewing EALs the Emergency Director should declare an Alert, HA5.1.
5	3/15	0857	Activation of the ERO to emergency response facilities.	See Message 4.3.
6	3/15	0916	Charging Pump "B" trips on low lube oil pressure. Message: 6.1 Charging Pump B Trip - Low Lube Oil Pressure	The Control Room will enter OP-901-112, "Charging or Letdown Malfunction", and enter TS 3.1.2.4 then start another Charging Pump in place of Charging Pump "B".
7	3/15	0932	Emergency Response Facilities Operational	Emergency Response Facility Leads should make their facilities operational within 45 minutes of the Alert declaration. (Depending on Covid-19 Telecommuting Policy changes, the Emergency Response Facility Operational time limit may be 90 minutes if most ERO members (drill participants) are working offsite.)



STATE OF LOUISIANA
Waterford 3 Biennial Exercise
March 15, 2022

Event #	Date	Estimated Time	Event	Expected Actions
8	3/15	0939	<p>Component Cooling Water Pump "B" breaker opens due to blown fuse caused by failure of 62-1 relay.</p> <p>Message: 8.1 CCW PMP B Breaker Trip due to 62-1 Relay Failure</p>	Control Room will enter OP-901-510, Component Cooling Water System Malfunction, enter TS 3.7.3 & cascading TS on train "B" and start Component Cooling Water Pump AB in place of Component Cooling Water Pump "B". Control Room should dispatch a NAO to investigate CCW Pump "B" breaker and to CCW Pump AB to verify proper operation.
9	3/15	1011	<p>Tube leak occurs on Steam Generator #2 at a rate of 85 gallons per day. Control Room will receive "Rad Monitor System Activity HI HI" and "Effluent Rad Monitoring System HI HI" on L (A-9, A-10).</p> <p>Message: 9.1 ERFs Habitability Survey - Background Message: 9.2 Steam Generator Sample - Tube Leak</p>	Control Room enters OP-901-202, Steam Generator Tube Leakage or High Activity. The crew will begin a rapid plant shutdown in accordance with OP-901-212, "Rapid Plant Power Reduction", due to the size of the tube leak. The plant should be at ≤50% power within 1 hour. The crew will then have two hours to be in Mode 3. Operators may start an additional Charging Pump.
10	3/15	1047	<p>Digital Electro-Hydraulic (DEH) failure resulting in Turbine in manual.</p> <p>Message: 10.1 Failed CPU Pwr Sup in DEH Cabinet</p>	Control Room should request TSC to send I&C to troubleshoot.
11	3/15	1130	Steam Generator #2 tube leakage becomes a tube rupture.	Control Room should enter OP-902-000, "Standard Post Trip Actions" then OP-902-007, "Steam Generator Tube Rupture". If the crew has not already shutdown the reactor, then they should manually trip the reactor, initiate Safety Injection Actuation (SIAS) and Containment Isolation Actuation (CIAS).
12	3/15	1145	<p>Emergency Classification: Site Area Emergency Main Steam Safety Valve (MS112B) will lift resulting in the ruptured Steam Generator also being faulted outside of containment.</p> <p>Message: 12.1 MSSV MVAAA112B Relief Valve fails open Message: 12.2 Plant Announcement w/o PA evacuation Message: 12.3 Contingency Classification SAE Message: 12.4 PA Evacuation (Simulated) & Offsite Assembly Area</p>	EOF ED should declare Site Area Emergency based on Loss or Potential Loss of any two Barriers (RCB1, CNB1). Following declaration of the SAE, the TSC Emergency Plant Manager (EPM) should make a plant announcement for the SAE and site evacuation of non-essential personnel to the designated assembly area. The Control Room should enter OP-902-008, "Functional Recovery".

**STATE OF LOUISIANA**
Waterford 3 Biennial Exercise
March 15, 2022

13	3/15	1242	Emergency Classification: General Emergency Containment High Range Monitors read > 900 R/hr Message: 13.1 Plant Announcement for GE Message: 13.2 Contingency Classification GE	EOF ED should declare a General Emergency for a Loss of any Two Barriers and Loss or Potential Loss of the Third Barrier after recognizing the Containment High Range Monitor readings indicate fuel clad failure. FG1.1 FCB5, RCB1 & CNB1 EOF ED should also declare Protective Action Recommendations for the GE (PAR Scenario #2)
14	3/15	1400	Termination of drill activities. Message: 14.1 Concurrence of Drill Termination Message: 14.2 Plant Announcement for Drill Termination	Participants should restore their Emergency Response Facility, collect all Exercise related paperwork for Facility Lead Controllers and perform a Post Exercise Facility Critique.



STATE OF LOUISIANA
Waterford 3 Biennial Exercise
March 15, 2022

Narrative

Initial Conditions

The plant is operating at 100% power toward the middle of core life. No major Technical Specification Equipment is out of service. Subgroups 5 & 11 are selected for both Reactor Power Cutback Events. The "A/B" electrical bus is aligned to the "B" side. RWSP purification is in service. The Protected Train is A. Plant Safety Index is 10.0 Green.

Summary of Events

At **08:06**, Shift Manager receives a phone call from the Security Shift Supervisor stating Security has entered Heightened Awareness due to vehicle parked on the old entrance hill. Shift Manager should enter OP-901-523, Security Events, and to EP-001-001, Recognition and Classification of Emergency Conditions. No Emergency Classification should be declared as the abandoned vehicle does not meet the definition of a Security Condition, credible threat or Hostile Action.

At **08:28**, Security will secure from Heightened Awareness.

At **08:32**, Hot Leg 2 Temperature Indicator (RC IT121X) Fails Low affecting Pressurizer Level Setpoint. The Control Room will enter OP-901-110, Pressurizer Level Control Malfunction, to maintain Pressurizer Level.

At **08:37**, the Control Room receives notification that a forklift carrying several argon compressed gas cylinders into the Condensate Polisher Building dropped its load and several cylinders are leaking due to damaged and broken off valves resulting in the Condensate Polisher Building filling with argon gas. Site Safety has flagged off the area and is not letting anyone into the building due to low oxygen levels (17% O₂). There are no reported injuries and all personnel were evacuated from the building. Site Safety is working to set up forced circulation to clear the building of argon.

The Shift Manager should declare an ALERT based on HA5.1 - Release of a toxic, corrosive, asphyxiant or flammable gas into any Table H-2 room or area (Condensate Polisher Building-all areas / in Mode 1).

At **09:16**, Charging Pump "B" trips on low lube oil pressure. The Control Room receives Charging Pump "B" Not Available annunciator on panel G (A-6). The Control Room will start another available Charging Pump in place of "B".



STATE OF LOUISIANA
Waterford 3 Biennial Exercise
March 15, 2022

At **09:39**, Component Cooling Water Pump "B" breaker opens due to blown fuse caused by failure of 62-1 relay. Control Room receives CCW PMP B Trip/Trouble annunciator on panel N (B-12). A NAO should be dispatched by the Control Room to investigate CCW Pump "B" breaker. The Control Room will start CCW Pump "AB" to replace Pump "B".

At **10:11**, A Steam Generator tube leak of 85 gpd (approx. 0.42 gpm) occurs in S/G #2. The control room will receive annunciator Rad Monitoring Sys Activity Hi-Hi, panel L (A-9), Effluent Rad Monitoring Sys Activity Hi-Hi, panel L (A-10), and Vacuum Pumps Exhaust Activity Hi, panel E (C-3). The Control Room enters off-normal procedure OP-901-202 Steam Generator Tube Leakage or High Activity. OP-901-202 will direct the crew to commence a rapid plant shutdown in accordance with OP-901-212, Rapid Plant Power Reduction. The crew should enter TS 3.4.5.2 for SG primary to secondary leakage.

At **10:47**, Digital Electro-Hydraulic (DEH) failure resulting in Turbine Control switching to manual control.

At **~11:30**, Steam Generator #2 Tube leak becomes a S/G #2 Tube Rupture. Containment High Range rad monitors begin to rise (begin to ramp towards 900 R/hr). Control Room should enter OP-902-000, Standard Post Trip Actions and OP-902-007, Steam Generator Tube Rupture. If the crew has not already shutdown the reactor, then they should manually trip the reactor, initiate Safety Injection Actuation (SIAS) and Containment Isolation Actuation (CIAS).

At **11:45**, S/G #2 MSSV, MS-112B, fails OPEN. The control room team should recognize changing conditions exist. The CRS should diagnose to OP-902-008, Functional Recovery Procedure, and recognize an excess steam demand condition exist with a release from the ruptured Steam Generator in progress. EAL for Site Area Emergency has been exceeded. The Emergency Director should declare a Site Area Emergency based on EP-001-001, Initiating Condition FS1.1, EALs RCB1, CNB1, Loss of or Potential Loss of ANY two Barriers.

At **12:42**, Containment High Range monitors exceeds 900 R/hr. EAL for General Emergency has been exceeded. The Emergency Director declares a General Emergency based on EP-001-001, Initiating Condition FG1.1, EALs FCB5, RCB1, CNB1, Loss of ANY two Barriers AND Loss or Potential Loss of the Third barrier. Initial Protective Action Recommendations of PAR Scenario #2, evacuation of Protective Response Areas A1, B1, C1, D1 (2-mile radius) and B2, D2 (5-mile radius downwind) and Monitor and Prepare the remainder of the Protective Response Areas is recommended.

At **1400**, Terminate drill.



WATERFORD 3 2022 OUT OF SEQUENCE EVALUATION
MS1
February 23, 2022

V. NARRATIVE SUMMARY

At approximately 07:45 AM, a Mechanical Maintenance Technician at Waterford 3, who has been repairing a leak on the "B" Low Pressure Safety Injection Pump, slips and falls breaking her right tibia and striking her forehead on a pump support. During the fall, the technician's right leg came into contact with contaminated water collected from the pump.

The Drill Control Team simulates the Control Room response and UNT-007-018, First Aid and Medical Care, is implemented. Response by the Emergency First Aid Team is simulated and primary surveys of the patient are performed.

At approximately 08:00, the Ochsner St. Charles Parish Hospital EMS is (simulated) dispatched to Waterford 3 to transport patient to Ochsner Jefferson Hwy Medical Center.

After requesting EMS, the Drill Control Team calls the hospital to report the simulated medical emergency. The patient's primary survey information (vital signs) is provided.

The EMTs will provide updates to the hospital during simulated transportation of the patient.

At approximately 08:30, the ambulance will arrive at hospital. The patient will be taken into the REA, decontaminated and treated for the simulated injuries. After the patient has been removed from the REA and the proper removal of protective clothing has been demonstrated, the medical drill will be terminated. A critique of the events will be conducted.

Any required x-rays or required samples may be simulated by hospital personnel after demonstrating knowledge of requirements and processes.

Scenario Start:

At approximately 08:30, the ambulance will arrive at the medical center. The patient will be taken into the REA, decontaminated and treated for the simulated injuries. The scenario will be ended when all discussions/interviews and demonstrations are completed. A critique of the events will be conducted.

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Appendix F: Improvement Plan

This Improvement Plan has been developed as a result of the W3 PPX conducted on March 15, 2022.

Capability Target	Core Capabilities	Issue	Corrective Action	Primary Responsible Organization	Organization POC	Start Date	Completion Date
2.1	Operational Coordination: Environmental Response/Health & Safety	LDEQ Procedures do not include considerations for occupational exposure when assigning emergency response duties.	Issue No.: 70-22-2.1-P-01 Add language to procedures to address how occupational exposures and emergency exposures are considered when assigning emergency duties.	LDEQ HQ at the SEOC	Adrienne Landry	04/18/2022	
5.4	Operational Coordination; On-Scene Security, Protection, and Law Enforcement	Louisiana State EOC does not have procedures to coordinate the restrictions of air, water, and rail in the event of an emergency at a nuclear power facility.	Issue No.: 70-22-5.4-P-02 Updates have been made to the GOHSEP procedures and checklists. The RAC Chair has approved the changes.	SEOC	Adrienne Landry	03/15/2022	Issue Closed: 03/23/2022

Capability Target	Core Capabilities	Issue	Corrective Action	Primary Responsible Organization	Organization POC	Start Date	Completion Date
3.2	Public Information & Warning	The EAS Message St. Charles Parish disseminated was not verified with St. John Parish.	Issue No: 70-22-3.2-P-03 St. Charles Parish EOC has an appropriate template in their plans to ensure the required information is included in the EAS message. Include steps in your current Parish procedures for coordination with St. John Parish to ensure the EAS messages being sent to the radio station are concise.	St. Charles Parish EOC	Adrienne Landry	04/18/2022	

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