

Waterford 3 Steam Electric Station
Drill Report - 2008-10-21
Final Report - Radiological Emergency
Preparedness (REP) Program
2008-11-21





FEMA

Drill Report

Waterford 3 Steam Electric Station

Drill Date: 2008-10-21

Report Date: 2008-11-21

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 October 21 - 22, 2008, out-of-sequence Reception Center, Emergency Worker Monitoring and Decontamination and Medical Drills were conducted for the Waterford 3 Steam Electric Station (Waterford 3), located near New Orleans, 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 drill was to assess the level of preparedness of local responders to react to a simulated radiological emergency at Waterford 3.

Personnel from the City of Paulina, West Jefferson Parish, the American Red Cross, and Waterford 3 participated in the drills. Evaluation Areas demonstrated included: Emergency Operations Management, Protective Action Implementation, and Support Operations/Facilities. Cooperation, training and teamwork of all participants was evident during the drills, and DHS/FEMA wishes to acknowledge these efforts.

This report contains the final evaluation of the out-of-sequence drills. The participants demonstrated knowledge of their emergency response plans and procedures and adequately demonstrated them. There were no Deficiencies, one Area Requiring Corrective Action (ARCA), that was corrected on the spot, and one Plan Issue identified during the drills.

2. Introduction

On December 7, 1979, the President directed the Federal Emergency Management Agency (FEMA) to assume the lead responsibility for all off site 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 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 off-site emergency planning and in their view and evaluation of radiological emergency response plans (RERPs) and procedures developed by state and local governments;

Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by state and local governments;

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 Federal agencies with responsibilities in the radiological emergency planning process:

- U.S. Department of Commerce
- U.S. Nuclear Regulatory Commission
- U.S. Environmental Protection Agency
- U.S. Department of Energy
- U.S. Department of Health and Human Services
- U.S. Department of Homeland Security/FEMA

- U.S. Department of Transportation
- U.S. Department of Agriculture
- U.S. Department of the Interior
- U.S. Food and Drug Administration.

Representatives of these agencies serve on the Regional Assistance Committee (RAC), which is chaired by the Branch Chief of the DHS/FEMA Region VI Office. Formal approval of the RERPs was granted by FEMA on April 25, 1988 under 44 CFR 350.

The DHS/FEMA Region VI Office evaluated a drill on October 21 - 22, 2008, to assess the capabilities of local emergency preparedness organizations in implementing their RERPs and procedures to protect the public health and safety during a radiological emergency involving the Waterford 3 Steam Electric Station. The purpose of this report is to present the results and findings on the performance of the offsite response organizations (OROs) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the federal evaluation team, with final determinations made by the DHS/FEMA Region VI Office RAC Chair. 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; and

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

Section 3 of this report, entitled "Drill Overview," presents basic information and data relevant to the drills. This section of the report contains a description of the Emergency Planning Zone (EPZ) and a listing of all participating jurisdictions and functional entities that were evaluated.

Section 4 of this report, entitled "Drill 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: (1) descriptions of all Deficiencies and Areas Requiring Corrective Actions (ARCAs) assessed during the drill and recommended corrective actions and (2) descriptions of unresolved ARCAs assessed during previous exercises and the status of the OROs efforts to resolve them.

3. Drill Overview

This section contains data and basic information relevant to the October 21 - 22, 2008, Reception Center and Medical drills to test the offsite response capabilities in the area surrounding the Waterford 3 Steam Electric Station. This section of the report includes a description of the Emergency Planning Zone and a listing of all participating jurisdictions and functional entities that were evaluated.

3.1. EPZ Description

The area within 10 miles of Waterford 3 Steam Electric Station (Waterford 3) is entirely in the State of Louisiana. The most prominent natural feature in the Emergency Planning Zone (EPZ) is the Mississippi River running from west-northwest to east-southeast through the middle of the area. The Waterford 3 EPZ involves two parishes, St. John the Baptist Parish and St. Charles Parish.

There are several communities near the site within the 10-mile EPZ. These include Killona, Montz, Norco, Destrehan, Hahnville, Luling, LaPlace, Edgard, Reserve, and Garyville. The 2000 census estimated the population of the EPZ to be 91,116 persons mainly concentrated in towns along the Mississippi River. There are two hospitals, three nursing homes, and two incarceration facilities in the EPZ.

The major highways include I-10, I-310, I-55, U.S. Highways 61, 51, and 90, and Louisiana Highways 18 and 3127. There are four railways in the EPZ, which are the Canadian National Railroad, Kansas City Southern Railroad, Union Pacific Railroad, and Burlington Northern Railroad. The Waterford 3 EPZ is divided into 16 Protective Action Sections for the purpose of emergency response and implementation of protective actions.

3.2. Drill Participants

Agencies and organizations of the following jurisdictions participated in the Waterford 3 Steam Electric Station drill:

- Support Jurisdictions

 - East Jefferson Fire Department

East Jefferson General Hospital Emergency Medical Services
Kenner Police Department
Parish of Jefferson Emergency Management
Paulina-Grand Point-Belmont Volunteer Fire Department
Jefferson Parish

Private Jurisdictions

American Red Cross
City of Kenner
Department of Social Services
Pontchartrain Center
Waterford 3 Steam Electric Station
West Jefferson Medical Center

4. Drill Evaluation and Results

4.1. Summary Results of Drill Evaluation

Table 1 - Summary of Drill Evaluation

DATE: 2008-10-21 SITE: Waterford 3 Steam Electric Station, LA A: ARCA, D: Deficiency, M: Met		Ponchartrain Center	West Jefferson Air Care Amb.	WJMC	Paulina VFD
Emergency Operations Management					
Mobilization	1a1				
Facilities	1b1				
Direction and Control	1c1				
Communications Equipment	1d1				
Equip & Supplies to support operations	1e1	M	M	M	M
Protective Action Decision Making					
Emergency Worker Exposure Control	2a1				
Radiological Assessment and PARs	2b1				
Decisions for the Plume Phase -PADs	2b2				
PADs for protection of special populations	2c1				
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1				
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1				
Protective Action Implementation					
Implementation of emergency worker exposure control	3a1	M	M	M	M
Implementation of KI decision	3b1				
Implementation of protective actions for special populations - EOCs	3c1				
Implementation of protective actions for Schools	3c2				
Implementation of traffic and access control	3d1				
Impediments to evacuation are identified and resolved	3d2				
Implementation of ingestion pathway decisions - availability/use of info	3e1				
Materials for Ingestion Pathway PADs are available	3e2				
Implementation of relocation, re-entry, and return decisions.	3f1				
Field Measurement and Analysis					
Adequate Equipment for Plume Phase Field Measurements	4a1				
Field Teams obtain sufficient information	4a2				
Field Teams Manage Sample Collection Appropriately	4a3				
Post plume phase field measurements and sampling	4b1				
Laboratory operations	4c1				
Emergency Notification and Public Info					
Activation of the prompt alert and notification system	5a1				
Activation of the prompt alert and notification system - Fast Breaker	5a2				
Activation of the prompt alert and notification system - Exception areas	5a3				
Emergency information and instructions for the public and the media	5b1				
Support Operations/Facilities					
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1	M			M
Mon / decon of emergency worker equipment	6b1				M
Temporary care of evacuees	6c1	M			
Transportation and treatment of contaminated injured individuals	6d1		M	M	

4.2. Status of Jurisdictions Evaluated

4.2.1. Support Jurisdictions

4.2.1.1. Pontchartrain 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.: 70-08-6a1-A-01

CRITERION: 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: The vehicle monitor moved too fast and held the probe too far from the vehicle surface to properly detect the presence of radiation. Secondly, when the vehicle monitor identified contamination he did not respond appropriately by reporting the contamination levels and allowing the recorder to record the contamination levels on the appropriate forms.

POSSIBLE CAUSE: The vehicle monitor did not refer to the procedure for proper monitoring technique and reporting procedures. This is a new location and additional training on procedures and technique is recommended.

REFERENCE: NUREG-0654, K.5.a (Decontamination and Monitoring of emergency personnel, supplies, instruments, and equipment and for waste disposal) and FEMA-REP-22 (Contamination Monitoring Guidance for Portable Instruments Used for Radiological Emergency Response to Nuclear Power Plant Accidents).

EFFECT: The monitor may not have detected contamination on the vehicle because he was using the improper monitoring technique. In addition, the monitor did not respond appropriately when contamination was detected on

the vehicle. This undetected and unreported contamination may result in a spread of contamination to other clean areas or persons.

CORRECTIVE ACTION DEMONSTRATED: The controller coached the monitor on the proper technique and the monitor was able to re-demonstrate the activity using effective monitoring techniques. The controller stopped play for the second time and coached the monitor on the proper procedure. After coaching, the monitor was able to respond appropriately by informing the team's recorder of the contamination levels found and directing the vehicle driver to the impound area.

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

4.2.1.2. West Jefferson Medical Center

- a. MET: 1.e.1, 3.a.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.3. Paulina-Grand Point-Belmont Volunteer Fire Department

- a. MET: 1.e.1, 3.a.1, 6.a.1, 6.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. Private Jurisdictions

4.2.2.1. West Jefferson Air Care Ambulance

- a. MET: 1.e.1, 3.a.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

APPENDIX 1

ACRONYMS AND ABBREVIATIONS

ARC	American Red Cross
ARCA	Area Requiring Corrective Action
EPZ	Emergency Planning Zone
ER	Emergency Room
FEMA	Federal Emergency Management Agency
HP	Health Physics
JPDFD	Jefferson Parish Fire Department
NRC	Nuclear Regulatory Commission
OIC	Officer In Charge
OSL	Optically Stimulated Luminescent
PED	Personal Electronic Dosimeter
PPE	Personal Protective Equipment
RAC	Regional Assistance Committee
REA	Radiation Emergency Area
RPT	Radiation Protection Technician
RSO	Radiation Safety Officer
VFD	Volunteer Fire Department
WJMC	West Jefferson Medical Center

APPENDIX 2

DRILL EVALUATORS AND TEAM LEADERS

DATE: 2008-10-21, SITE: Waterford 3 Steam Electric Station, LA

LOCATION	EVALUATOR	AGENCY
Pontchartrain Center Reception Center	*Nan Calhoun Linda Gee Joseph Keller Elsa Lopez	DHS/FEMA DHS/FEMA ICF DHS/FEMA
West Jefferson Medical Center	Nan Calhoun *Linda Gee Elsa Lopez	DHS/FEMA DHS/FEMA DHS/FEMA
Paulina-Grand Point-Belmont Volunteer Fire Department	Nan Calhoun Linda Gee Joseph Keller *Elsa Lopez	DHS/FEMA DHS/FEMA ICF DHS/FEMA
West Jefferson Air Care Ambulance	Joseph Keller	ICF
* Team Leader		

APPENDIX 3

State Of Louisiana
Waterford-3 SES - 2008 Evaluated Drill
October 21 - 22, 2008
Objectives and Extent-of-Play (EOP) Agreement

EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

Sub-Element 1.b – Facilities

Criterion 1.b.1: Facilities are sufficient to support the emergency response.

Locations

Pontchartrain Center Reception Center, Congregate Care Demonstration Shelter

Extent of Play

The shelter will not be established, an American Red Cross representative will be available to discuss key aspects related to set up and use of the facility.

ARCAs

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.

Locations

Paulina Volunteer Fire Department Decon Station, Pontchartrain Center Reception Center Radiological Monitoring Staff, West Jefferson Medical Center, West Jefferson Air Care

Extent of Play

Equipment, maps, displays, dosimetry, potassium iodide (KI) and other supplies will be demonstrated for use as they would in an actual emergency. This includes dosimetry and any protective gear worn or used by emergency workers.

NOTE: St. Charles EMS will be used if the West Jefferson Air Care helicopter is unavailable due to an actual response.

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ARCAs

None

EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

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

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.

Locations

Paulina Volunteer Fire Department Decon Station, Pontchartrain Center Reception Center Radiological Monitoring Staff, West Jefferson Medical Center, West Jefferson Air Care

Extent of Play

Area dosimetry will be used in the radiological controlled area for both the reception center and the decontamination center. Correction on the spot, at the discretion of and concurrence between the evaluator and the controller, may be acceptable at these locations.

NOTE: St. Charles EMS will be used if the West Jefferson Air Care helicopter is unavailable due to an actual response.

ARCAs

None

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EVALUATION AREA 6: SUPPORT OPERATIONS/FACILITIES

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.

Locations

Pontchartrain Center Reception Center, Paulina Volunteer Fire
Department Decon Station

Extent of Play

Both the Pontchartrain Center Reception Center staff and the Paulina Volunteer Fire Department Decon Station staff will be notified alerted and mobilized by their respective notification points. A roster indicating 24-hour coverage for their facilities will be available, and a shift change will not be demonstrated at either location. A portal monitor will be used to demonstrate evacuee personnel monitoring at the Pontchartrain Center Reception Center. Evacuee decontamination will be simulated. A decontamination area will actually be set-up for the demonstration. Correction on the spot, at the discretion of and concurrence between the evaluator and the controller, may be acceptable at these locations. Registration and assignment of evacuees will be demonstrated at the reception center. The Reception Center serves 4,592 evacuees (20% of 22,960 total response area population) and will process 6 simulated evacuees (1 simulated/contaminated) during the drill. The Reception Center is prepared to process 1,646 vehicles (20% of 8,231 vehicles) and will process 2 simulated evacuee vehicles (1 contaminated) during the drill.

ARCAs

None

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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.

Locations

Paulina Volunteer Fire Department Decon Station

Extent of Play

One emergency vehicle and one emergency worker will be monitored. Correction on the spot, at the discretion of and concurrence between the evaluator and the controller, may be acceptable at this location.

ARCAs

None

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 the congregate care facilities.

Locations

Congregate Care Demonstration Shelter

Extent of Play

A walk-through of a congregate care center will be held during normal working hours on the day of the drill for the reception center. American Red Cross representatives at the congregate care center will be prepared to discuss key aspects of congregate care operations including locations,

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management, communications and arrangements for shelter, food services, family assistance, child care, medical care and sanitation. They will also be prepared to discuss transportation issues, screening for contamination at the congregate care center and evacuee tracking.

ARCAs

None

Sub-Element 6.d – Transportation and Treatment of Contaminated Injured Individuals

Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources and trained personnel to provide transport, monitoring, decontamination and medical services to contaminated injured individuals.

Locations

West Jefferson Air Care, West Jefferson Medical Center

Extent of Play

West Jefferson Medical Center will be contacted. A simulated contaminated and injured person will be identified and transportation will be provided by the West Jefferson Air Care helicopter. Medical transportation will be staged at the West Jefferson Medical Center at the beginning of the drill. If the ambulance is not available due an actual medical emergency, transportation to the hospital will occur using a utility vehicle.

Correction on the spot, at the discretion of and concurrence between evaluator and controller, may be acceptable at this location.

NOTE: St. Charles EMS will be used if the West Jefferson Air Care helicopter is unavailable due to an actual response.

ARCAs

None

APPENDIX 4

STATE OF LOUISIANA
OFFSITE SCENARIO
FOR
WATERFORD 3 STEAM ELECTRIC STATION
October 21 & 22, 2008

Participating Organizations

Paulina VFD Decontamination Station
Pontchartrain Center Reception Center

Schedule of Events

October 21 & 22, 2008

Tuesday, October 21, 2008

18:00 – 20:00 - Paulina VFD Decontamination Station Demonstration

16:00 - Jefferson Parish Congregate Care Demonstration (Location TBD)

Wednesday, October 22, 2008

14:00 – 16:00 - Reception Center Demonstration at Ponchartrain Center

STATE OF LOUISIANA
WATERFORD-3 SES
October 21 & 22, 2008

I. Situation

This drill will be conducted for the purpose of testing the ability of the following organizations to address an emergency at the Waterford 3 SES: Paulina VFD Emergency Worker Decontamination Station, and the Ponchartrain Center Reception Center.

II. Summary of Events

Tuesday, October 21, 2008

At approximately 18:00, the Drill Control Team will notify the St. James Parish EOC to notify the Emergency Worker Decontamination Station staff. A simulated emergency worker is directed to the Paulina VFD emergency worker decontamination station for evaluation. Upon arrival at the Paulina VFD station, the emergency worker's car is found to be contaminated and is impounded. When he is monitored, the emergency worker is found to be contaminated and undergoes decontamination procedures. After these procedures are performed, the emergency worker is found to be free of contamination and is dismissed. Prior to the termination of the drill, a list of qualified replacement personnel will be made available. No shift change will take place.

Wednesday, October 22, 2008

At approximately 13:30, the Drill Control Team will notify the Jefferson Parish EOC to notify the Reception Center staff. Activation and staffing of the Reception Center will begin at this time. At approximately 14:00 a simulated evacuee arrives at the Ponchartrain Center Reception Center for evaluation. Upon arrival at the Ponchartrain Center Reception Center, the simulated evacuee's car is found to be contaminated and is impounded. When the simulated evacuee is monitored, he is found to be contaminated and undergoes decontamination procedures. After these procedures are performed, the simulated evacuee is found to be free of contamination and is dismissed. In all, a total of four simulated evacuees and two simulated evacuee vehicles will undergo monitoring procedures. Evacuee registration and shelter assignment will also take place at this time. Prior to the termination of the drill, a list of qualified replacement personnel will be made available. No shift change will take place.

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WATERFORD-3 SES
October 21 & 22, 2008

At approximately 1600, on Tuesday, October 21st, a walk-through will be conducted at the (TBA) Shelter located at (TBA) LA.

IV. Attachments

1. Exercise Timeline
2. Exercise Cue Cards
3. Offsite Controller/Monitor Assignments

STATE OF LOUISIANA
WATERFORD-3 SES
October 21 & 22, 2008

ATTACHMENT 1

DRILL TIMELINE

STATE OF LOUISIANA
WATERFORD-3 SES
October 21 & 22, 2008

TIME	EVENT	DRILL ACTIVITY
10/21/08 17:45 T= -0:15	Drill preparations are made.	The Drill Control Team assembles at the Paulina VFD FD.
18:00 T= 0	Drill initiated by the Drill Control Team	Communications initiated from the Drill Control Team to St. James EOC staff. Paulina VFD response personnel are notified.
18:15 T= +0:15	Responders report to the Decontamination Station	Responders are briefed, outfitted and begin set-up of the station.
18:45 T=+ 0:45	An emergency worker arrives at the Paulina VFD Decontamination Station and monitoring procedures are initiated.	
18:50 T=+1:15 CC-1 A CC-2 A,	The emergency worker vehicle is found to be contaminated.	Vehicle is moved to the impoundment area and the interior is surveyed. Vehicle remains in the impoundment area.
19:00 T=+1:00 CC-3 A,	An emergency worker is found to be contaminated.	Decontamination measures are initiated.
19:15 T=+1:30 CC-4 A CC-5 A CC-6 A	The contaminated emergency worker is surveyed after decontamination procedures and is found to be clean.	The emergency worker is released.
19:30 T=+1:30	Decontamination Station personnel make available shift change information.	
20:00 T=+2:00	The drill is terminated.	

STATE OF LOUISIANA
WATERFORD-3 SES
October 21 & 22, 2008

TIME	EVENT	DRILL ACTIVITY
10/22/08 13:15 T= -0:15	Drill preparations are made.	The Drill Control Team assembles at the Ponchartrain Center Reception Center.
13:30 T= 0 CC-7A	Drill initiated by the Drill Control Team	Communications initiated from the Drill Control Team to the Jefferson Parish EOC to notify Ponchartrain Center Reception Center response personnel.
14:00 T= +0:00	Responders report to the Reception Center	Responders are briefed, outfitted and begin set-up of the center.
14:30 T=+0:30	An evacuee arrives at the Ponchartrain Center Reception Center and monitoring procedures are initiated.	
14:35 T=+0:35 CC-8A CC-9A	The evacuee's vehicle is found to be contaminated.	Vehicle is moved to the impoundment area and the interior is surveyed. Vehicle remains in the impoundment area.
14:45 T=+0:45 CC-10A CC-11A	An evacuee is found to be contaminated.	Decontamination measures are initiated.
15:00 T=+1:00 CC-12A	The contaminated evacuee is surveyed after decontamination procedures and is found to be clean.	The evacuee is released.
15:15 T=+1:15	Registration and shelter assignment activities are demonstrated.	
15:30 T=+1:30	Reception Center personnel make available shift change information.	
16:00 T=+2:00	The drill is terminated.	

ATTACHMENT 2
DRILL CUE CARDS

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #1A

THIS IS A DRILL

FROM: Paulina VFD Decon Station Vehicle Evaluator

TO: Vehicle Monitor

TIME: After commencement of vehicle monitoring

MESSAGE: Your probe cover has come in contact with the vehicle tire.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #1B

THIS IS A DRILL

FROM: Paulina VFD Decon Station Vehicle Evaluator

TO: Vehicle Monitor

TIME: After commencement of vehicle monitoring

ANTICIPATED RESPONSE

Vehicle monitor will replace probe cover.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #2A

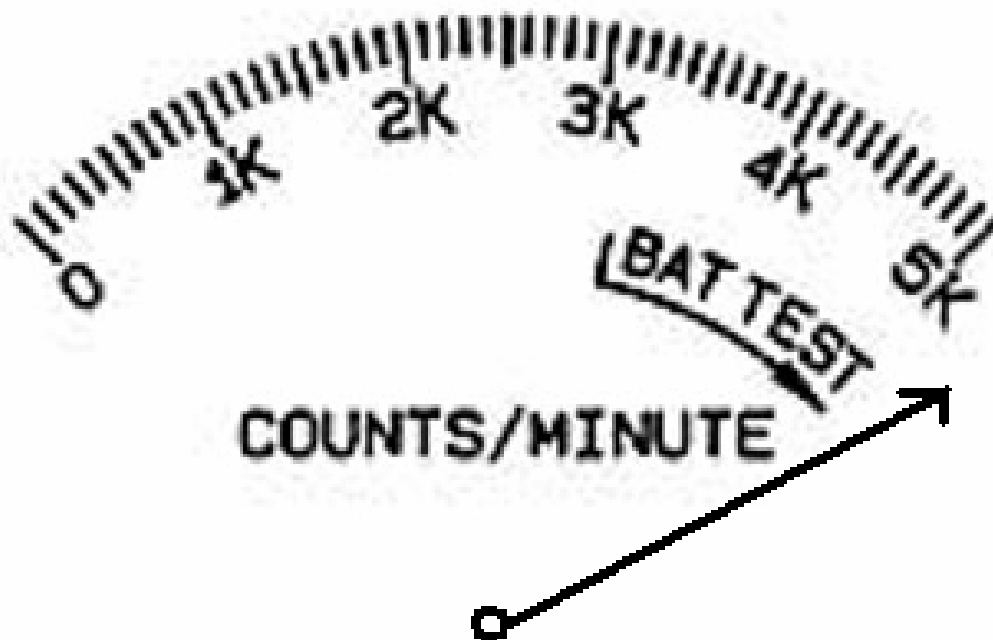
THIS IS A DRILL

FROM: Paulina VFD Decon Station Vehicle Evaluator

TO: Vehicle Monitor

TIME: During Vehicle Monitoring

MESSAGE: While monitoring the rear tire with your survey meter on the X 0.1 scale, your headset has registered a continuous sounding of “clicks” and our meter face read as follows:



WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #2B

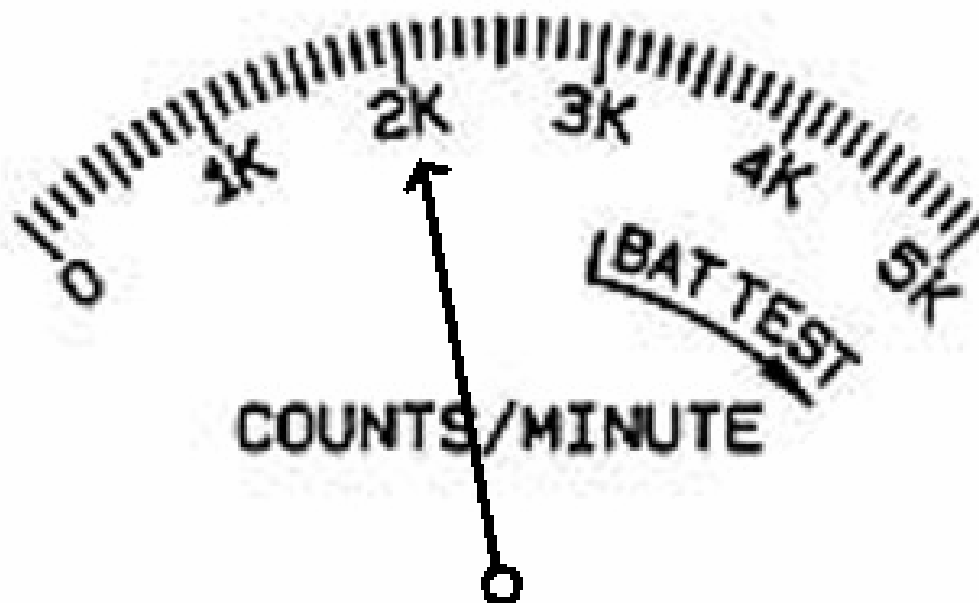
THIS IS A DRILL

FROM: Paulina VFD Decon Station Vehicle Evaluator

TO: Vehicle Monitor

TIME: During Vehicle Monitoring

MESSAGE: After switching to the X 1 scale, your survey meter face reads as follows:



THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #3A

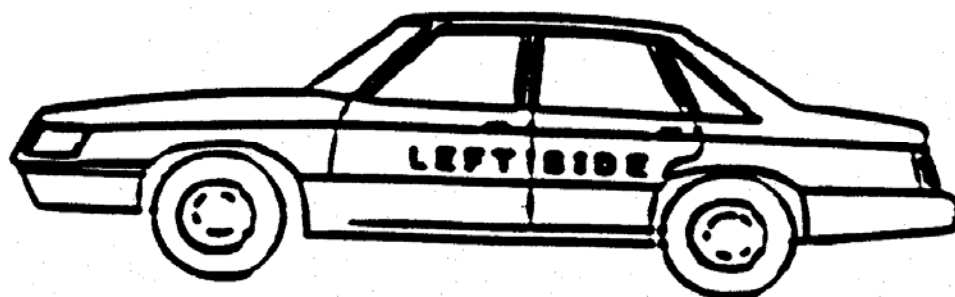
THIS IS A DRILL

FROM: Paulina VFD Decon Station Vehicle Evaluator

TO: Vehicle Monitor

TIME: During Vehicle Monitoring

MESSAGE: Contamination on the vehicle has been found in the following location:



FRONT TIRE/REAR TIRE
2000 CPM 2000 CPM

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #3B

THIS IS A DRILL

FROM: Paulina VFD Decon Station Vehicle Evaluator

TO: Vehicle Monitor

TIME: During Vehicle Monitoring

ANTICIPATED RESPONSE

1. Vehicle monitor should switch to survey meter times 1 scale when presented with first meter reading.
2. After switching to times 1 scale, the vehicle monitor will be presented with the second meter reading.
3. After receiving second meter reading data, the vehicle monitor will be presented with vehicle contamination location.
4. The Vehicle contamination readings will be recorded.
5. The vehicle will be taken to the area designated for contaminated vehicles by the original driver.

INSTRUCTIONS

The Controller will ensure that the activities in the Anticipated Response section of this Cue Card are performed.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #4A

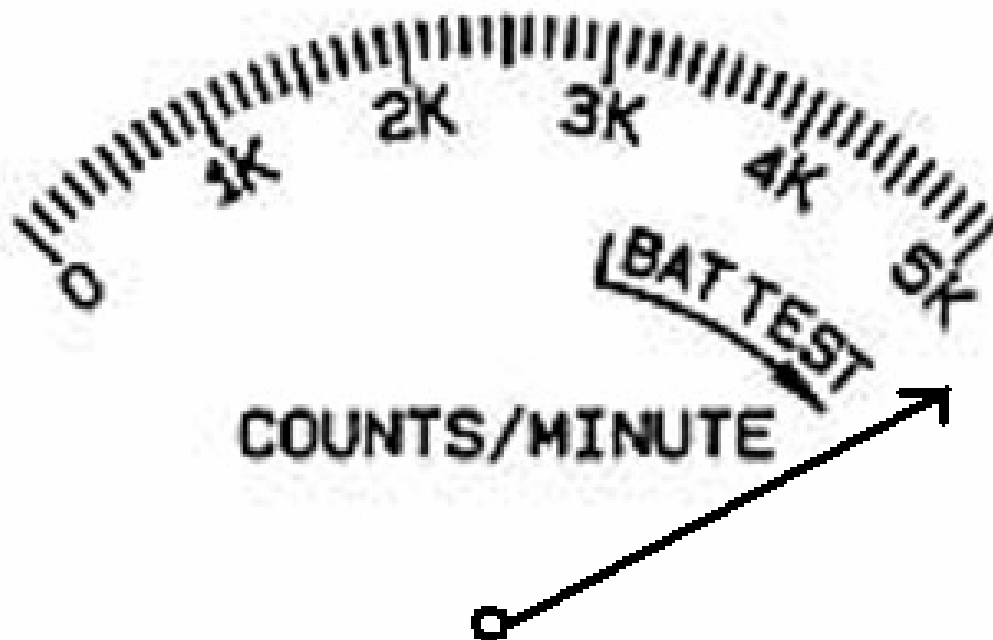
THIS IS A DRILL

FROM: Paulina VFD Decon Station Personnel Evaluator

TO: Personnel Monitor

TIME: During Personnel Monitoring

MESSAGE: While monitoring the emergency worker with your probe at the victim's left forearm and your meter on the X 0.1 scale, your headset has registered a continuous sounding of "clicks" and your meter face reads as follows:



WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #4B

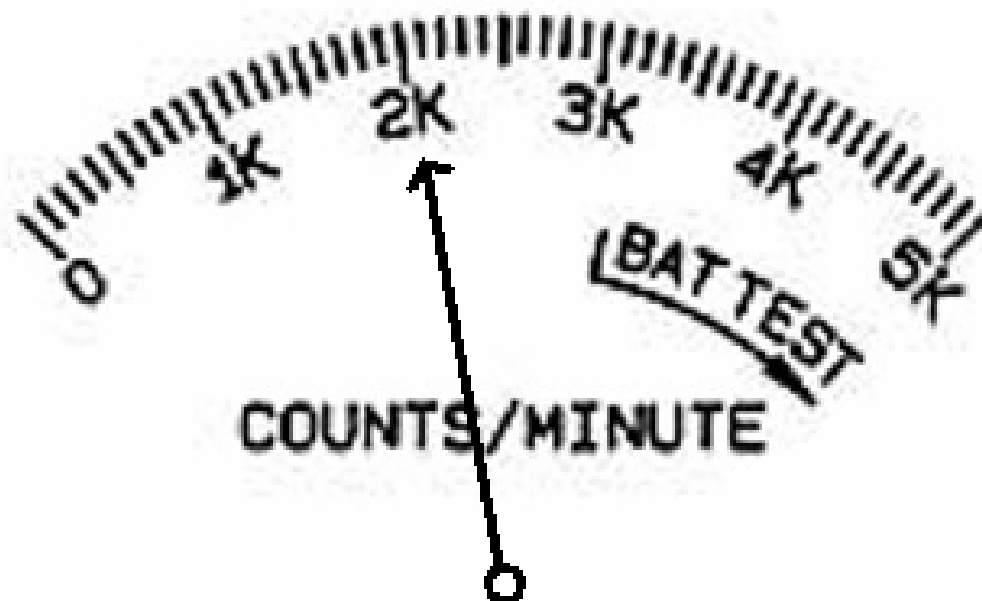
THIS IS A DRILL

FROM: Paulina VFD Decon Station Personnel Evaluator

TO: Personnel Monitor

TIME: During Personnel Monitoring

MESSAGE: After switching to the X 1 scale, your meter reads as follows:



WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #5A

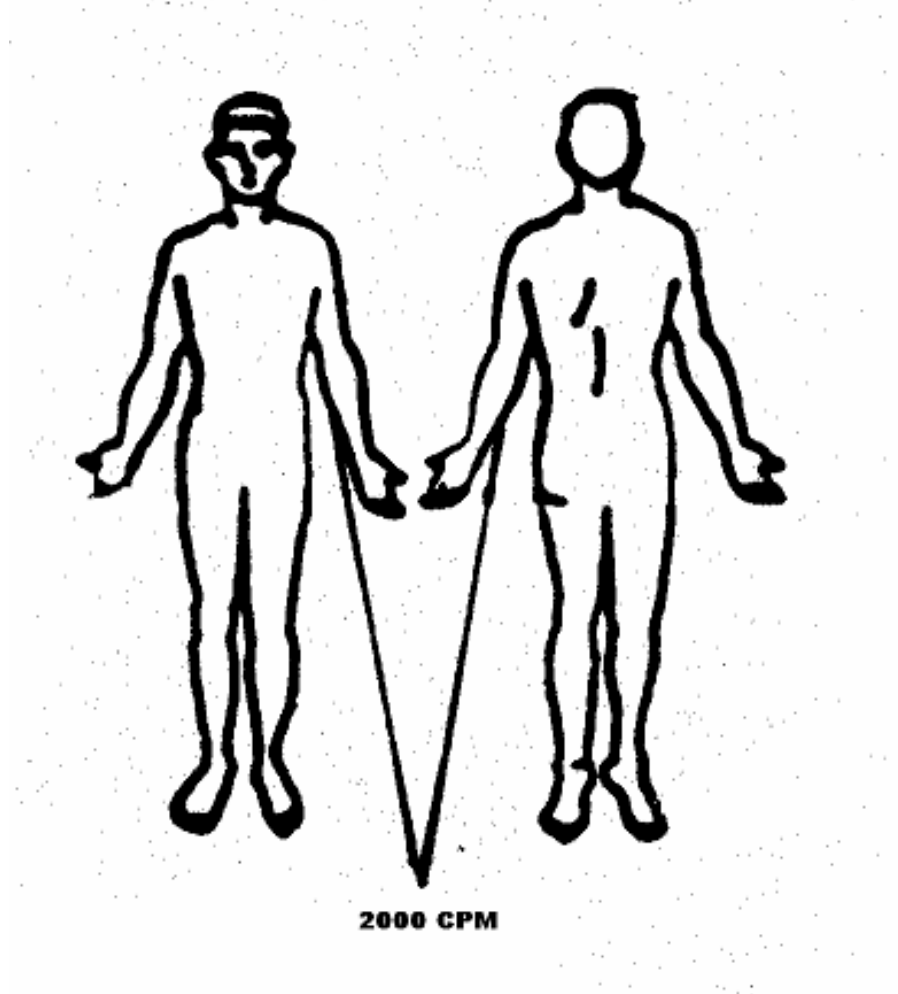
THIS IS A DRILL

FROM: Paulina VFD Decon Station Personnel Evaluator

TO: Personnel Monitor

TIME: During Personnel Monitoring

MESSAGE: Contamination has been found on the following locations:



WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #5B

THIS IS A DRILL

FROM: Paulina VFD Decon Station Personnel Monitoring Evaluator

TO: Personnel Monitor

TIME: During Personnel Monitoring

ANTICIPATED RESPONSE

1. Personnel monitor should switch to survey meter times 1 scale when presented with first meter reading.
1. After switching to times 1 scale, the monitor will be presented with the second meter reading.
2. After receiving second meter reading data, the monitor will be presented with contamination location.
3. Contamination readings will be recorded.
4. The contaminated individual will be sent to the designated decontamination area where appropriate decontamination procedures will be implemented.
5. Following decontamination procedures. The person will be monitored and will be found to be clean.

INSTRUCTIONS

The Controller will ensure that the activities in the Anticipated Response section of this Cue Card are performed.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #6A

THIS IS A DRILL

FROM: Paulina VFD Decon Station Decon Area Evaluator

TO: Decon Area Supervisor

TIME: At the conclusion of decontamination procedures

MESSAGE: The decontaminated person is found to be free of contamination upon
being resurveyed.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #6B

THIS IS A DRILL

FROM: Paulina VFD Decon Station Decon Area Evaluator

TO: Decon Area Supervisor

TIME: At the conclusion of the contamination procedures

ANTICIPATED RESPONSE

1. The Decon Area Supervisor will release the decontaminated person into the general population following resurveying.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #7A

THIS IS A DRILL

FROM: Drill Control Team

TO: Jefferson Parish EOC Staff

TIME: 14:00

MESSAGE: The State EOC has informed you of an emergency at Waterford-3
classified as a Site Area Emergency. You are requested to fully staff and
activate the Reception Center are to expect the arrival of evacuees from
St Charles Parish.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #7B

THIS IS A DRILL

FROM: Drill Control Team

TO: Jefferson Parish EOC Staff

TIME: 14:00

ANTICIPATED RESPONSE

The EOC staff will activate Reception Center staff and will begin set-up of the center.

COMMENTS

Drill Control Team will initiate activity with Jefferson Parish staff.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #8A

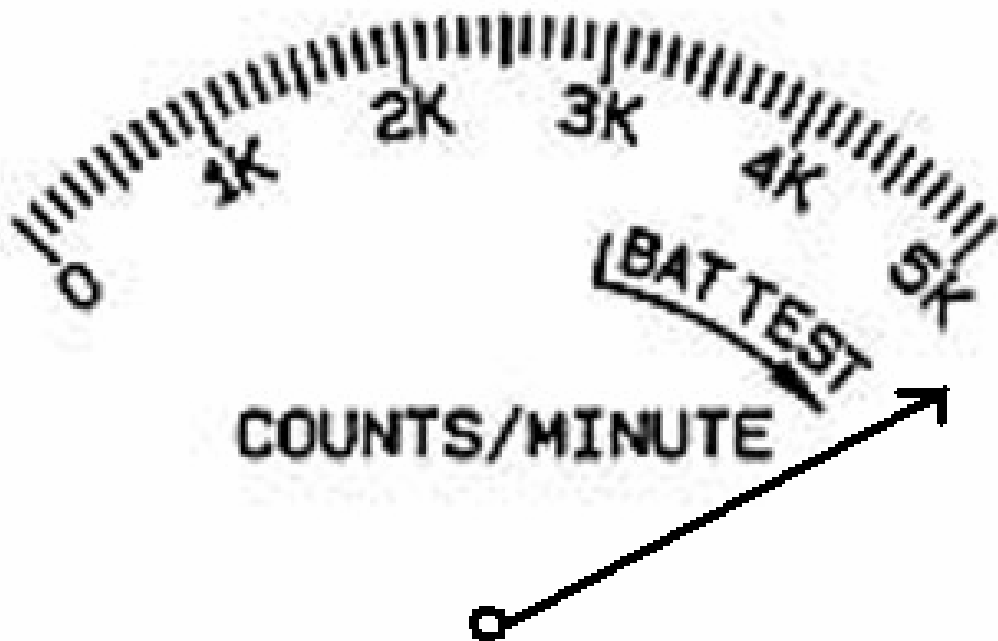
THIS IS A DRILL

FROM: Vehicle Evaluator

TO: Vehicle Monitor

TIME: During Vehicle Monitoring

MESSAGE: While monitoring the rear tire with your survey meter on the X 0.1 scale, your headset has registered a continuous sounding of "clicks" and our meter face read as follows:



THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #8B

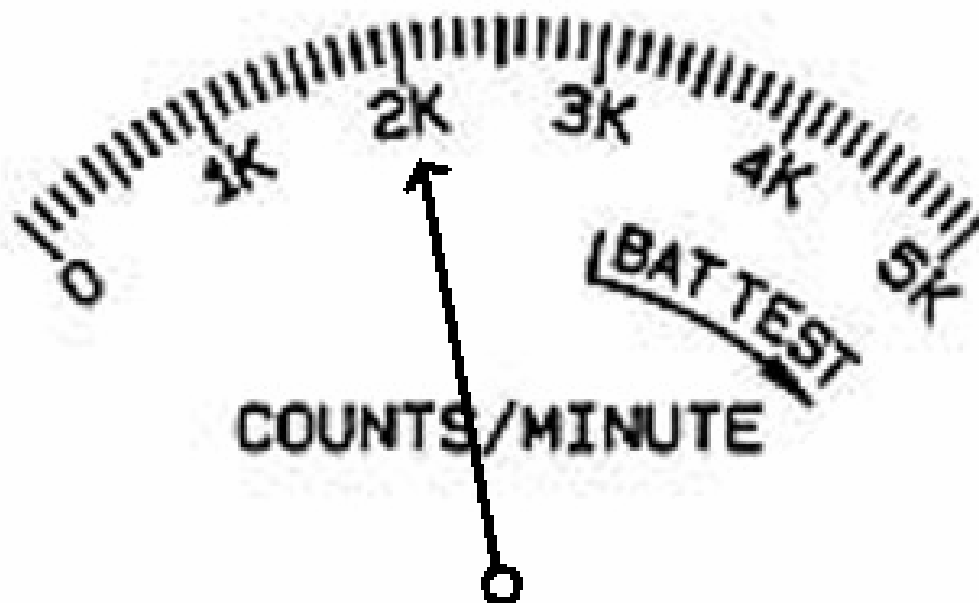
THIS IS A DRILL

FROM: Vehicle Evaluator

TO: Vehicle Monitor

TIME: During Vehicle Monitoring

MESSAGE: After switching to the X 1 scale, your survey meter face reads as follows:



THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #9A

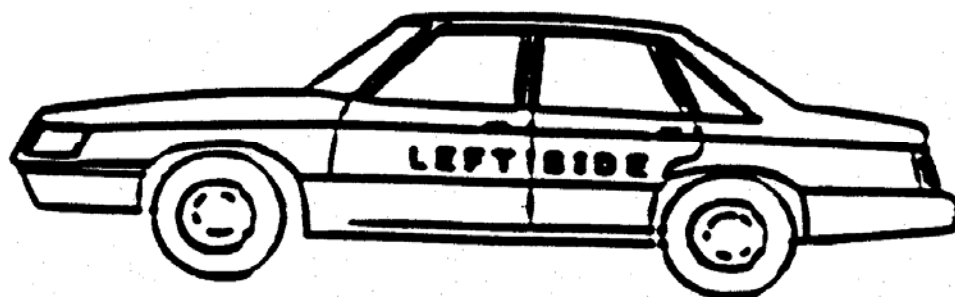
THIS IS A DRILL

FROM: Vehicle Evaluator

TO: Vehicle Monitor

TIME: During Vehicle Monitoring

MESSAGE: Contamination on the vehicle has been found in the following location:



FRONT TIRE/REAR TIRE
2000 CPM 2000 CPM

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #9B

THIS IS A DRILL

FROM: Vehicle Evaluator
TO: Vehicle Monitor
TIME: During Vehicle Monitoring

ANTICIPATED RESPONSE

6. Vehicle monitor should switch to survey meter times 1 scale when presented with first meter reading.
7. After switching to times 1 scale, the vehicle monitor will be presented with the second meter reading.
8. After receiving second meter reading data, the vehicle monitor will be presented with vehicle contamination location.
9. The Vehicle contamination readings will be recorded.
10. The vehicle will be taken to the area designated for contaminated vehicles by the original driver.

INSTRUCTIONS

The Evaluator will ensure that the activities in the Anticipated Response section of this Cue Card are performed.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #10A

THIS IS A DRILL

FROM: Personnel Evaluator

TO: Personnel Monitor

TIME: During Personnel Monitoring

MESSAGE: While processing an evacuee through the portal monitor, the monitor alarms. The evacuee is processed through the portal monitor a second time and the monitor alarms again.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #10B

THIS IS A DRILL

FROM: Personnel Evaluator

TO: Personnel Monitor

TIME: During Personnel Monitoring

MESSAGE: While monitoring the evacuee with your probe at the victim's left forearm and your meter on the X 0.1 scale, your headset has registered a continuous sounding of "clicks" and your meter face reads as follows:



THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #10C

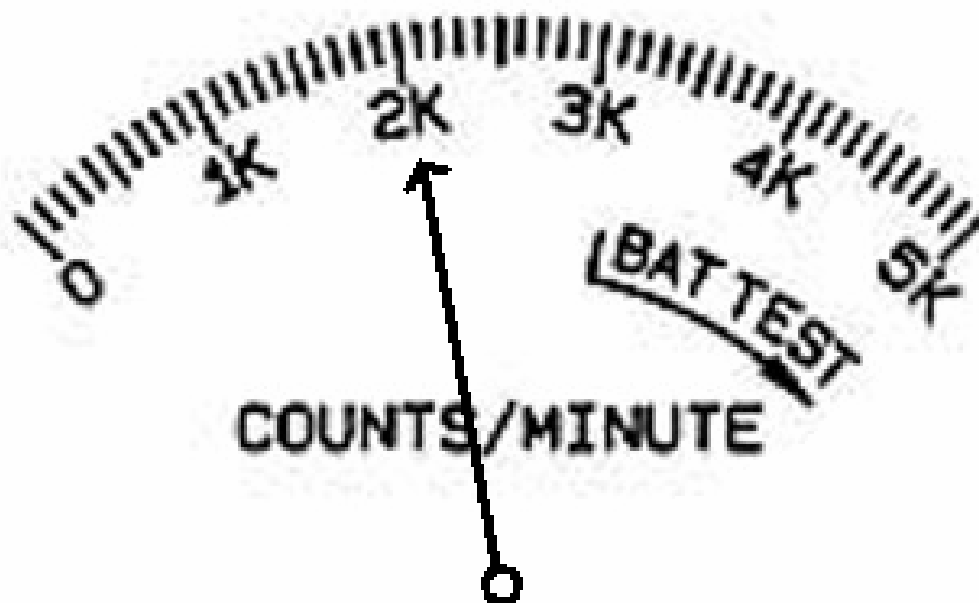
THIS IS A DRILL

FROM: Personnel Evaluator

TO: Personnel Monitor

TIME: During Personnel Monitoring

MESSAGE: After switching to the X 1 scale, your meter reads as follows:



THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #11A

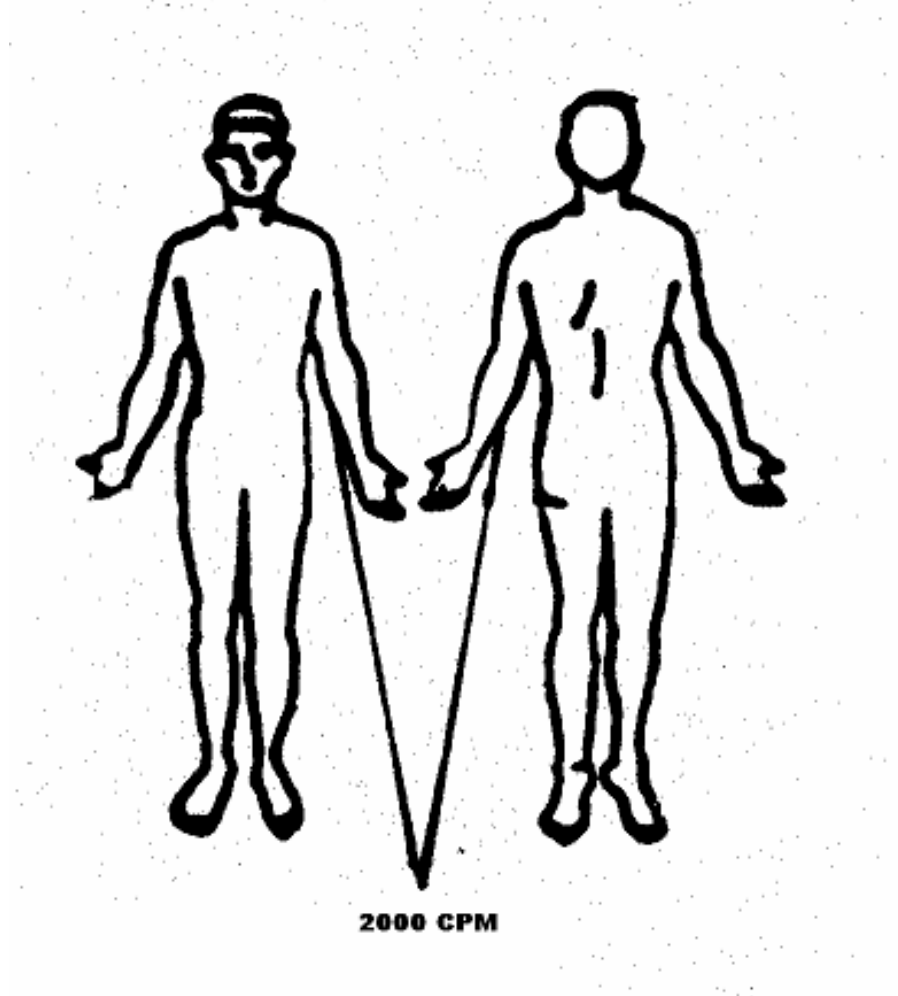
THIS IS A DRILL

FROM: Personnel Evaluator

TO: Personnel Monitor

TIME: During Personnel Monitoring

MESSAGE: Contamination has been found on the following locations:



THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #11B

THIS IS A DRILL

FROM: Personnel Evaluator

TO: Personnel Monitor

TIME: During Personnel Monitoring

ANTICIPATED RESPONSE

6. When the portal monitor alarms the second time, the evacuee will be directed to the monitoring pad for a hand survey.
7. Personnel monitor should switch to survey meter times 1 scale when presented with first meter reading. After switching to times 1 scale, the monitor will be presented with the second meter reading.
8. After receiving second meter reading data, the monitor will be presented with contamination location.
9. Contamination readings will be recorded.
10. The contaminated individual will be sent to the designated decontamination area where appropriate decontamination procedures will be implemented.
11. Following decontamination procedures. The person will be monitored and will be found to be clean.

INSTRUCTIONS

The Evaluator will ensure that the activities in the Anticipated Response section of this Cue Card are performed.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #12A

THIS IS A DRILL

FROM: Decon Area Evaluator

TO: Decon Area Supervisor

TIME: At the conclusion of decontamination procedures

MESSAGE: The decontaminated person is found to be free of contamination upon
being resurveyed.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

OFFSITE CUE CARD #12B

THIS IS A DRILL

FROM: Decon Area Evaluator
TO: Decon Area Supervisor
TIME: At the conclusion of the contamination procedures

ANTICIPATED RESPONSE

1. The Decon Area Supervisor will release the decontaminated person into the general population following resurveying.

THIS IS A DRILL

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

ATTACHMENT 3

OFFSITE CONTROLLER/MONITOR ASSIGNMENTS

Paulina VFD Decon Station Controller	R. Perry
Paulina VFD Decon Station Evaluator	G. Gothard
Paulina VFD Decon Station Evaluator	P. Auzenne
Pontchartrain Center Controller	R. Perry
Pontchartrain Center Monitor	G. Gothard
Pontchartrain Center Monitor	P. Auzenne

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

WATERFORD 3 STEAM ELECTRIC STATION

2008 OFFSITE MEDICAL DRILL

WEST JEFFERSON MEDICAL DRILL

DRILL 2008-07

OCTOBER 22, 2008

PARTICIPANTS

ENTERGY OPERATIONS, INC.
WEST JEFFERSON MEDICAL CENTER
WEST JEFFERSON MEDICAL CENTER AIR CARE AMBULANCE

APPROVAL: _____
EMERGENCY PLANNING MANAGER

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

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WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

I. INTRODUCTION

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

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

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

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

West Jefferson Medical Center Air Care Ambulance and West Jefferson Medical Center 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 medical emergency to demonstrate their performance according to current emergency preparedness plans and procedures.

The scenario is a mechanism by which selected drill controllers and monitors will initiate and evaluate the activities of the drill participants. The drill will be initiated at the Waterford 3 helicopter pad at 08:00 on October 22, 2008 and is expected to last approximately three hours.

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

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

II. OBJECTIVES

The following general objectives and guidelines have been developed for the Offsite Medical Drill, which is scheduled on October 22, 2008.

A. WEST JEFFERSON MEDICAL CENTER

1. Demonstrate the adequacy of the equipment, procedures, supplies and personnel of medical facilities responsible for treatment of contaminated, injured, or exposed individuals.

B. WEST JEFFERSON MEDICAL CENTER AIR CARE AMBULANCE

1. Demonstrate the adequacy of vehicles, equipment, procedures and personnel for transporting contaminated, injured or exposed individuals.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

III. 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 II of this manual.

1. The offsite medical response drill will be conducted on October 22, 2008.
2. Participation is limited to the West Jefferson Medical Center Air Care Ambulance staff, West Jefferson Medical Center Emergency Room Staff and the Drill Control Team. The Waterford 3 plant staff **WILL NOT** participate.
3. Communications between the Waterford 3 plant and West Jefferson Medical Center are simulated by the Drill Control Team.
4. A simulated contaminated injured person and a Health Physics technician are staged at the Waterford 3 helicopter pad at the beginning of the drill.
5. The drill is initiated by the Drill Control Team requesting the dispatch of the West Jefferson Medical Center Air Care Ambulance to transport the patient to West Jefferson Medical Center. The Drill Control Team then contacts West Jefferson Medical Center simulating a report of a medical emergency.
6. If West Jefferson Medical Center Air Care Ambulance is unable to support to this drill, then St. Charles Hospital Ambulance Service will transport the patient to West Jefferson Medical Center.
7. If St. Charles Hospital Ambulance Service is unable to support to this drill, transportation of the patient to West Jefferson Medical Center is simulated with a company vehicle.
8. All communications are preceded and ended with "THIS IS A DRILL."
9. The simulated medical emergency continues until the patient is decontaminated and treated by the West Jefferson Medical Center medical staff.
10. A critique is conducted immediately following the termination of the drill.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

IV. NARRATIVE SUMMARY

At approximately 07:45 AM, a Mechanical Maintenance Technician at Waterford 3, who has been repairing a leak on the "A" Low Pressure Safety Injection Pump, slips and falls down breaking his right forearm and striking his forehead on a pump support. 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 08:00, the Drill Control Team calls the West Jefferson Medical Center Air Care Ambulance Service to request transportation of the patient to West Jefferson Medical Center. After requesting the ambulance, the Drill Control Team calls the West Jefferson Medical Center to report the simulated medical emergency. The patient's primary survey information (vital signs) is provided.

Upon arrival at West Jefferson Medical Center, the patient is taken into the REA, decontaminated and treated for the simulated injuries. After the treatment has proceeded to the point that the patient would be admitted to the hospital and the ambulance has been surveyed and released, the medical drill is terminated and a critique of the events is conducted.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

V. SEQUENCE OF EVENTS

TIME	EVENT	DRILL ACTIVITY
07:30 T= -0:30 CC-1	Drill preparations are made.	The Drill Control Team and an HP technician assemble at West Jefferson Medical Center. The patient is "made up" and the Drill personnel are briefed.
08:00 T= +0:00 CC-2	Drill initiated by the Drill Control Team.	The Drill Control Team requests West Jefferson Medical Center Air Care Ambulance to respond and notifies West Jefferson Medical Center of the medical emergency.
CC-3 CC-4		If West Jefferson Medical Center Air Care Ambulance is unable to respond, the patient will be transported to West Jefferson Medical Center via St. Charles Hospital Ambulance Service.
CC-5		If West Jefferson Medical Center is unable to participate, the medical emergency drill will be terminated.
CC-6		The patient's condition will not change during transportation to West Jefferson Medical Center.
CC-7 CC-8	Patient arrives at West Jefferson Medical Center.	The patient is removed from the ambulance and taken to the REA. The hospital personnel decontaminate the patient and begin treatment of the injury.
CC-9	HP surveys the ambulance for contamination.	The ambulance is determined to be clean and is released.
CC-10	Drill terminated. Critique conducted.	When the patient is ready to be admitted to the hospital and the ambulance has been surveyed and released, the medical response drill will be terminated.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

VI. CUE CARDS

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 1A

TO: DRILL CONTROL TEAM/SM

TIME: 07:30

FROM: LEAD CONTROLLER

T = -0:30

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

1. The Onsite Drill Control Team, HP technician and simulated injured person assemble at the Credit Union Building to prepare for the start of the drill.
2. The Offsite Drill Control Team assembles at West Jefferson Medical Center.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 1B

TO: DRILL CONTROL TEAM/SM

TIME: 07:30

FROM: LEAD CONTROLLER

T = -0:30

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. The Lead Controller briefs the Drill Control Team, HP technician and patient.
2. The Medical Controller "makes up" the patient.
3. The Lead Controller briefs the SM.
4. The patient is staged at the Helicopter pad.

COMMENTS

1. The HP technician will accompany the patient to the hospital.
2. The Drill Control Team will simulate the actions of the EFAT in the coordination with the ambulance personnel.
3. There will be no onsite involvement in this drill.

INSTRUCTIONS

The Drill Control Team personnel at West Jefferson Medical Center (WJMC) should position themselves such that they will be able to observe the initial call to the emergency room.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 2A

TO: WJMC

TIME: 08:00

FROM: LEAD CONTROLLER

T = + 0:00

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

1. Lead Controller calls West Jefferson Medical Center Air Care Ambulance Service and requests the ambulance to respond to W3 to transport a contaminated injured patient to West Jefferson Medical Center (WJMC).
2. Lead Controller contacts WJMC and reports the medical emergency.
3. Lead Controller informs WJMC that _____ Ambulance Service is responding and provides an ETA to the W3 plant site.

PHONE NUMBERS:

West Jefferson Medical Center Air Care	1-800-382-4006
OR	347-5511
West Jefferson Medical Center	349-1532 (Request Charge Nurse)

Vital Sign	EFAT Arrival at scene	5 minutes	10 minutes
Breathing	Shallow (22)	Shallow, moderate (22)	No change
Pulse	Weak, rapid (100)	Weak, moderate (100)	100
B/P	110/70	130/76	150/90
Pupils:			
R	Reactive	No change	No change
L	Reactive	No change	No change
Skin	Cool	Warm	Diaphoretic
LOC	Conscious	Conscious	Responsive
	Responsive	Responsive	

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 2B

TO: WEST JEFFERSON MEDICAL CENTER TIME: 08:00

FROM: LEAD CONTROLLER T = + 0:00

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. West Jefferson Medical Center Air Care Ambulance responds to the W3 site.
2. West Jefferson Medical Center personnel begin to set up the REA to accept the patient.

COMMENTS

1. The patient will be staged at the W3 helicopter pad.
2. On the initial call to request the ambulance, the Lead Controller will ensure the dispatcher understands the ambulance is required to respond to W3. In past drills, there was some confusion and the ambulance simulated response since it "was only a drill." The Lead Controller will also ensure a call back number is provided to the ambulance service to report any changes in response. For example if the helicopter can not fly due to weather, it should be reported.
3. On the initial call to WJMC, the Lead Controller will ensure a call back number is provided to the charge nurse.
4. If the Ambulance Service personnel do not have the proper dosimetry, then the HP technician will provide dosimetry.

INSTRUCTIONS

1. The Lead Controller will ensure the ambulance is dispatched to W3. If Air Care can not respond, refer to instructions on subsequent cue cards.
2. The Lead Controller will provide the 08:00 patient vital signs information and ambulance ETA to the WJMC Charge Nurse.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 3A

TO: DRILL CONTROL TEAM TIME: If West Jefferson Medical Center Air Care
Ambulance can not respond

FROM: LEAD CONTROLLER T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

CONTINGENCY CUE CARD

Implementing Conditions: If West Jefferson Medical Center Air Care Ambulance Service is unable
to respond to Waterford 3,

Contingency Actions: The patient will be transported to West Jefferson Medical Center via St.
Charles Ambulance Service.

PHONE NUMBERS:

St. Charles Parish 911 Center	911
OR	985-783-2949
West Jefferson Medical Center	349-1532 (Request Charge Nurse)

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 3B

TO: DRILL CONTROL TEAM TIME: If West Jefferson Medical Center Air Care
Ambulance can not respond

FROM: LEAD CONTROLLER T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. The Lead Controller requests St. Charles Ambulance Service to transport the patient to WJMC.
2. St. Charles Ambulance Service will transport the patient to WJMC.
3. The Lead Controller will notify WJMC of an ETA for the vehicle.

COMMENTS

1. West Jefferson Medical Center Air Care Ambulance Service may be required to respond to an actual medical emergency and not be able to participate in the drill. In an actual medical emergency at Waterford 3, other means of transportation is available and utilized. For the purposes of this portion of the drill, St. Charles Ambulance Service will respond to transport the patient.
2. On the initial call to request the ambulance, the Lead Controller will ensure the dispatcher understands the ambulance is required to respond to W3. In past drills, there was some confusion and the ambulance simulated response since it "was only a drill." The Lead Controller will also ensure a call back number is provided to the ambulance service to report any changes in response.

INSTRUCTIONS

The Lead Controller will implement this Cue Card if West Jefferson Medical Center Air Care Ambulance Service is unable to respond.

The Lead Controller will ensure the ambulance is dispatched to W3. If St. Charles Ambulance Service cannot respond, refer to instructions on subsequent cue cards.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 4A

TO: DRILL CONTROL TEAM TIME: If notified St. Charles Ambulance can
not respond

FROM: LEAD CONTROLLER T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

CONTINGENCY CUE CARD

Implementing Conditions: If St. Charles Hospital Ambulance Service is unable to respond.

Contingency Actions: The patient will be transported to West Jefferson Medical Center
in a company vehicle staged for this purpose.

PHONE NUMBERS:

West Jefferson Medical Center	349-1532 (Request Charge Nurse)
-------------------------------	---------------------------------

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 4B

TO: DRILL CONTROL TEAM TIME: If St. Charles ambulance can not respond

FROM: LEAD CONTROLLER T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. The Lead Controller and the HP technician will place the patient in the company vehicle and the Lead Controller will drive to the emergency entrance.
2. The Lead Controller will notify West Jefferson Medical Center of an ETA for the vehicle.

COMMENTS

St. Charles Hospital Ambulance Service may be required to respond to an actual medical emergency and not be able to participate in the drill. In an actual medical emergency at Waterford 3, other means of transportation is available and utilized. To satisfy an objective of this drill, a company vehicle has been staged to transport the patient.

INSTRUCTIONS

The Lead Controller will implement this Cue Card if St. Charles Ambulance Service is unable to respond.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 5A

TO: ALL PARTICIPANTS TIME: If WJMC is unable to participate.

FROM: LEAD CONTROLLER T = N/A

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

CONTINGENCY CUE CARD

Implementing Conditions: West Jefferson Medical Center informs the Lead Controller that they are unable to participate in the drill.

Contingency Actions: The Offsite Medical Response Drill will be terminated.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 5B

TO: ALL PARTICIPANTS TIME: If WJMC is unable to participate.

FROM: LEAD CONTROLLER T = N/A

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE:

1. If WJMC cannot participate in the drill, the Lead Controller terminates the drill

COMMENTS

The West Jefferson Medical Center Emergency Room may be required to respond to an actual medical emergency and be unable to participate in the drill.

INSTRUCTIONS

The Lead Controller will implement this Cue Card if WJMC is unable to participate.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 6A

TO: WJMC TIME: When ambulance departs W3

FROM: LEAD CONTROLLER T = N/A

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

Lead Controller informs WJMC that the ambulance has departed the plant site. Upon departure of the ambulance, the Lead Controller will provide an update of the patient's condition and the ambulance ETA to WJMC.

Breathing	Shallow (20)
Pulse	100
B/P	144/90
Pupils	Reactive
Skin	Cool
LOC	Conscious

The patient's legs are wet from the middle of his thigh to his feet due to contact with water in the area of the spent fuel pool.

Contamination on the patient's clothing is 2,000 cpm (20,000 dpm).

Contamination of the patient's legs (under clothing) is 500 cpm (5,000 dpm).

For the purpose of this drill, the radiological condition of the patient does not change on the way to the hospital.

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WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 6B

TO: WJMC TIME: When ambulance departs W3

FROM: LEAD CONTROLLER T = N/A

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE:

The Lead Controller contacts WJMC and provides the current ETA and updates the patient's condition.

COMMENTS

1. The Lead Controller will obtain the ETA to WJMC from the pilot/driver prior to departure and provide to WJMC.
2. Treatment of the patient by the ambulance personnel is not an objective of this portion of the drill.

INSTRUCTIONS

1. The HP technician and ambulance personnel will be informed that the medical and radiological condition of the patient will remain constant during the trip to the hospital.
2. Lead Controller contacts WJMC and provides an update.

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WEST JEFFERSON MEDICAL CENTER
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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 7A

TO: AMBULANCE PERSONNEL

TIME: 08:20

FROM: MEDICAL CONTROLLER

T = 0:20

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

When the ambulance is simulated to be approximately 10 minutes from WJMC the ambulance personnel will contact WJMC and provide an update of the patient's condition and current ETA.

Breathing	Shallow (22)
Pulse	Weak (100)
B/P	155/90
Pupils	No Change
Skin	Warm, diaphoretic
LOC	Conscious

For the purpose of this drill, the radiological condition of the patient has not changed on the way to the hospital.

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WEST JEFFERSON MEDICAL CENTER
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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 7B

TO: AMBULANCE PERSONNEL

TIME: 08:20

FROM: MEDICAL CONTROLLER

T = +0:20

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE:

The ambulance personnel contact WJMC and provide current ETA and update patient's condition.

COMMENTS

The hospital normally receives information from the ambulance in-route. This cue card simulates this communications.

INSTRUCTIONS

Direct the ambulance personnel to contact WJMC and provide an update.

ENSURE THIS COMMUNICATION IS PRECEDED BY "THIS IS A DRILL."

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WEST JEFFERSON MEDICAL CENTER
OCTOBER 22, 2008

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 8A

TO: WJMC EMERGENCY ROOM PERSONNEL TIME: Upon arrival at WJMC

FROM: MEDICAL CONTROLLER T = N/A

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

Provide the following information as appropriate actions are taken:

1. Removal of PCs will eliminate the contamination of the clothing.
2. Irrigation of the wound areas will reduce the contamination levels to 200 cpm.
3. Debridement of the wound areas will reduce the contamination levels to less than 100 cpm.

Vital Sign	On arrival	5 minutes (Tx started)	10 Minutes	15 Minutes	20 Minutes
Breathing	Shallow (22)	22	20	18	18
Pulse	Weak (100)	100	90	90	90
Pupils:	155/90	155/90	140/80	130/80	130/80
R	Reactive	Reactive	No change	No change	No change
L	Reactive	Reactive	No change	No change	No change
Skin	Warm, sweating	No change	Warm	No change	No change
LOC	Conscious	Conscious	Conscious	No change	No change

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WEST JEFFERSON MEDICAL CENTER
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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 8B

TO: WJMC EMERGENCY ROOM PERSONNEL TIME: Upon arrival at WJMC

FROM: MEDICAL CONTROLLER T = N/A

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. Upon arrival at West Jefferson Medical Center, the patient should be removed from the ambulance and taken to the REA.
2. The patient's PCs should be removed. The patient should be decontaminated via washing with soap and water.
3. Medical treatment will be provided.
4. When the patient has been decontaminated and is stable medically, the hospital staff should prepare to admit him/her to the hospital.

COMMENTS

The spread of contamination should be avoided as the patient is moved from the ambulance to the REA and while treatment is in progress.

INSTRUCTIONS

1. The information on this Cue Card will be provided as the West Jefferson Medical Center staff administers treatment to the patient.
2. Since the staff may take actions not anticipated, the Drill Control Team may adjust the information provided to compensate for their actions.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 9A

TO: HP TECHNICIAN TIME: Upon survey of the
ambulance

FROM: MEDICAL MONITOR/CONTROLLER T = N/A

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

When the HP technician surveys the ambulance for contamination, the ambulance will be determined to be "clean."

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WEST JEFFERSON MEDICAL CENTER
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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 9B

TO: HP TECHNICIAN TIME: Upon survey of the
ambulance

FROM: MEDICAL MONITOR/CONTROLLER T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. The HP technician will survey the ambulance to determine if it has been contaminated from the transport of the contaminated patient.
2. Upon finding the ambulance to be clean, the HP will release it to return to normal service.

COMMENTS

The ambulance should not be released until it has been surveyed. The HP should attempt to survey the ambulance at the earliest opportunity to allow it to return to service.

INSTRUCTIONS

Provide the information on this Cue Card to the HP technician as the ambulance survey is being performed.

If the HP does not survey the ambulance, this information will not be provided.

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WEST JEFFERSON MEDICAL CENTER
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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 10A

TO: ALL PARTICIPANTS TIME: When the patient is ready to admit
to the hospital

FROM: MEDICAL CONTROLLER T = N/A

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

Direct the participants to terminate the Offsite Medical drill.

WATERFORD 3 OFFSITE MEDICAL DRILL
WEST JEFFERSON MEDICAL CENTER
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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. OFFSITE MEDICAL RESPONSE CUE CARD NO. 10B

TO: ALL PARTICIPANTS TIME: When the patient is ready to admit
to the hospital

FROM: MEDICAL CONTROLLER T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

The participants will restore the REA to pre-drill conditions.

COMMENTS

After the patient is moved out of the contaminated area, this portion of the drill will be terminated. The hospital personnel involved in treating the patient (inside the REA) will demonstrate removal of PCs prior to terminating the drill. It may be acceptable for only one or two individuals to demonstrate this activity.

INSTRUCTIONS

1. After the patient has been decontaminated and ready to admit to the hospital and the ambulance has been released, terminate the treatment portion of the drill.
2. The hospital personnel involved in treating the patient (inside the REA) will demonstrate removal of PCs prior to terminating the drill.
3. After the REA has been restored to pre-drill conditions, conduct a critique of the drill with the participants.

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VII. CHARTS, GRAPHS AND TABLES

N/A

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VIII. DRILL TEAM ASSIGNMENTS

Lead Controller	Michael Huskey
Medical Controller	Donna Dawson
Medical Monitor (Hospital)	Dennis Stevens
HP Technician	Luke Schaubhut

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IX. DRILL TEAM INSTRUCTIONS

1. All Drill Control Team members for the Offsite Medical Drill will be briefed by the Lead Controller prior to conducting the drill.
2. All Drill Control Team members for the WJMC Drill of the Offsite Medical Drill will be on station at 7:30 AM on October 22, 2008.
3. All Drill Control Team members will take accurate, complete notes of the activities observed during the drill.
4. The Drill Control Team will conduct a critique of the drill, with the participants, immediately following the termination of the drill.
5. The Drill Control Team members will debrief with the Lead Controller after returning to the Waterford 3 plant site.

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X. REFERENCES

Waterford 3 SES Emergency Plan

Waterford 3 Emergency Medical Assistance Plan

NUREG-0654/FEMA-REP-1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants

UNT-007-018, First Aid and Medical Care

APPENDIX 5

PLANNING ISSUES

1. Paulina-Grand Point-Belmont Volunteer Fire Department

ISSUE NO.: 70-08-6a1-P-02

CONDITION: Portions of the Checklist which make up a part of the plan are out of date or misleading. For example, the Personnel Contamination Report (Section IV Form 2 of Checklist 3) shows a CD V-700 as the monitoring instrument rather than the Ludlum 3-A which was the instrument demonstrated. Also, Section III of Checklist 3 discusses a portal monitor. This device is not shown in other parts of the Checklist and was not demonstrated.

POSSIBLE CAUSE: Over sight when equipment was updated.

REFERENCE: NUREG-0654, K.5.b

EFFECT: Potential confusion. Also this form can be used as a record of actions taken in an emergency and should be accurate.

RECOMMENDATION: Revise plan to accurately reflect equipment to be used and correct forms for documenting actions.