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December 8, 1993

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L-93-308

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

Gentlemen:

Re: St. Lucie Units 1 and 2 Docket Nos. 50-335 and 50-389 Exercise Scenario for Emergency Exercise - February 1994

Florida Power & Light Company (FPL), in cooperation with the State of Florida, St. Lucie County, and Martin County emergency response agencies, will conduct an exercise of the emergency plan for St. Lucie Plant on February 9, 1994. The exercise will involve participation by local emergency response agencies and State emergency response personnel and will be evaluated by the Federal Emergency Management Agency.

As requested by NRC letter dated April 3, 1987 (J. Nelson Grace to C. O. Woody), the exercise scenario package is being forwarded only to Mr. Kenneth Barr, Emergency Preparedness Section Chief, Region II, "To be opened by addressee only." This exercise scenario package can be released from confidential status after the exercise date.

If there are any questions or comments concerning this exercise, or the scenario, please contact Mr. R. D. Mothena at (407) 694-4218.

Very truly yours,

A Saar D. A. Søger Vice President St. Lucie Plant

DAS/JWH/kw

Attachment

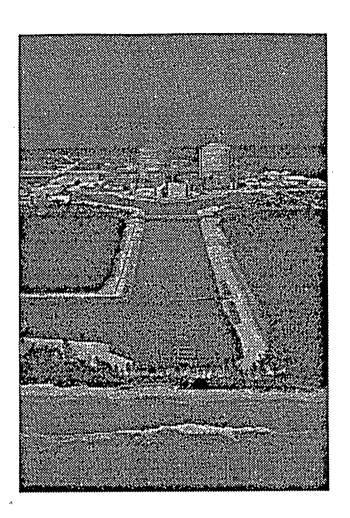
cc: Stewart D. Ebneter, Regional Administrator, Region II, USNRC Senior Resident Inspector, USNRC, St. Lucie Plant Kenneth Barr, Emergency Preparedness Section Chief, Region II, USNRC

DAS/PSL #1027-93

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FLORIDA POWER AND LIGHT COMPANY



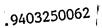
ST. LUCIE NUCLEAR PLANT

1994 EMERGENCY PREPAREDNESS

EVALUATED EXERCISE

FEBRUARY 9, 1994

CONFIDENTIAL (Until 02-10-94)





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4.2 MEDICAL SCENARIO AND MESSAGES



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FLORIDA POWER AND LIGHT COMPANY ST. LUCIE NUCLEAR POWER PLANT 1994 EMERGENCY PREPAREDNESS EVALUATED EXERCISE FEBRUARY 9, 1994

4.2 MEDICAL SCENARIO AND MESSAGES

-- NOTE -- '

This Section contains data on the simulated contaminated injury including: inplant, transport and treatment at the off-site medical treatment facility (Martin Memorial Hospital).

CONTENTS

Scenario and anticipated actions

Messages





GENERAL SCENARIO:

A Radwaste Operator (simulated by a volunteer victim) was working in the Drumming Room of the Unit 2 Reactor Auxiliary Building (RAB) when a lid on a B25 box slipped from the top of the box where it was sitting loosely and knocked the worker to the floor. As the lid fell, it knocked the victim over and the corner of the lid ripped open the right sleeve of the victim's protective clothing, gashing the right outer forearm between elbow and wrist. The victim was bowled over by the falling lid, striking their head soundly on the floor and was knocked semi-conscious. The victim is stunned and bleeding and a coworker (simulated by the Medical Controller) helped the worker out of the Drumming Room where the victim slumped to the floor and the medical emergency scenario begins with a notification telephone call to the Unit 2 Control Room (Simulator).



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SCENARIO

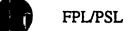
The medical scenario begins with the volunteer victim lying on their side in the Unit 2 RAB outside the Drumming Room. The victim is wearing protective clothing. The victim is semi-conscious and bleeding from the right forearm. Bleeding is apparent through the PC sleeve.

<u>ACTIONS</u>

The Medical Controller or a conscripted Player will call in the injury information to the Unit 2 Control Room (Simulator), initiating the medical emergency scenario.

Initial condition	,	The victim is semi-conscious and unresponsive to inquiry.
Respiration:	24	
Pulse:	85	
Skin:	Pale, and wet with perspiration.	
Pupils:	Dilated	





SCENARIO

<u>ACTIONS</u>

Plant	First-Aid/Decon	Team	Arrival

Respiration:	24
Pulse:	85
B/P:	140/96
Skin:	Pale and wet with perspiration.

Pupils: Equal.

The Patient is conscious, but is weak, dizzy and unable to sit up. The victim complains of headache, a feeling of vertigo and nausea. There is copious bleeding from the torn right forearm. Communications are established. Vital signs and patient condition are assessed. Protective clothing is removed to facilitate treatment of the wound. A pressure dressing is applied to the laceration. The victim is kept in a supine condition and remaining protective clothing is cut away. Psychological support is given.



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4.2.1 DETAILED SCENARIO AND ACTIONS (Continued)



Radiological evaluation:

General area radiation levels:

At Drumming Room door threshold (door open):

airborne:	2 mr/hr
	<mda< td=""></mda<>
smearable:	5000 cpm >Bkg
(door closed):	1 mr/hr
airborne:	<mda< td=""></mda<>
smearable:	5000 cpm >Bkg
Patient's SRD:	10 mr

While triage is being administered to the patient, Health Physics Technician should be assessing the general area radiological conditions and evaluating the contamination levels of the victim.



FPL/PSL

<u>SCENARIO</u>

<u>ACTIONS</u>

Radiological Evaluation:(Continued)

When moved to a lower background area:

Patient:

PC's (general):	
	5000 cpm >Bkg
right sleeve:	3000 cpm >Bkg
Gloves:	5000 cpm >Bkg

After PC removal:

Right forearm, wound area:

Face, left cheek:	2500 срт >вку
race, ien cheek.	1000 cpm >Bkg
Right Hand:	
	5000 cpm >Bkg
Left Knee:	2000 cpm >Bkg

In general, radiation, contamination and airborne activity outside of the immediate pumproom area will be AS READ.

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SCENARIO

Initial_Treatment: (Continued)

During the initial treatment and preparation for transport:

Respiration:

36, shallow, irregular.

Pulse:

B/P:

Skin:

Pupils:

Pale, cool diaphoretic

148/98

Equal

110

Patient is still complaining of headache and dizziness, is becoming less lucid, less responsive.

ACTIONS

Notification of patient condition and contamination should be made to the Control Room and the Emergency Coordinator. Due to the possibility of a cranial injury, notification to off-site treatment facility should be made and preparations for ambulance transport begun. The patient should be transported by stretcher to meet the ambulance and contamination control appropriate to the medical priorities should be exercised as the patient crosses the Radiation Control Area (RCA) line.

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4.2.1 DETAILED SCENARIO AND ACTIONS (Continued)

SCENARIO

<u>ACTIONS</u>

Radiological Evaluation: (Continued)

After initial decon attempts:

Right forearm, wour	nd area:
,	1500 cpm >Bkg
Face, left cheek:	
	100 cpm >Bkg
Right Hand:	• -
	100 cpm >Bkg
Left Knee:	
	Background

The initial decontamination attempts performed either in the RAB or in the ambulance will reduce the patient contamination levels to those indicated. These levels will remain unchanged until the patient reaches the off-site treatment facility.

<u>Secondary Treatment:</u> (Martin Memorial Hospital)

38, irregular.

Respiration:

Pulse:

B/P:

Skin:

Pale, clammy, moist. Pupils:

186/100

110

Equal, responsive.

Patient is still disoriented, is getting stronger and more responsive.

Medical evaluation finds the forearm laeration to be approximately 18 cm in length and not deep. There is considerable venous bleeding, no apparent tendon/muscle damage. The patient is becoming more reactive to inquiry and stimuli, there is the possibility of a subdural hematoma as a result of the head impact upon falling. Blood loss is controlled.



FPL/PSL

SCENARIO

ACTIONS

Secondary Treatment: (Off-Site Medical, In the Hospital, the patient's remaining Continued)) clothing is removed. Appropriate medical and nursing treatment are initiated. As Contamination levels: determined by the Physician, radiological surveys are performed and samples Wound: collected. All surveys should be correctly documented, all samples properly labeled. 1500 cpm >Bkg. Face and Cheek: Priorities are established for 100 cpm >Bkg. decontamination. Appropriate techniques are utilized for decontamination. Surveys Right hand: are performed and documented during the 100 cpm >Bkg. decontamination process. The Health Physics Technician makes After_1st Decon: recommendations and properly maintains control of waste. Area background levels Wound: are maintained as low as possible. 500 cpm > Bkg.Face and Cheek: Background. Right hand: 100 cpm >Bkg.





CONFIDENTIAL (Until 02-10-94) 4.2.1 <u>DETAILED SCENARIO AND ACTIONS</u> (Continued)

SCENARIO

After 2nd Decon:

Wound:

200 cpm >Bkg.

After 3rd Decon:

Wound:

Background.

ACTIONS

During the treatment, the wound will continue to exhibit measurable radiation readings in spite of decontamination efforts until the third simulated decontamination attempt. The removal of this contamination essentially completes the treatment and decontamination phase of the scenario.



TO: First-Aid/Decon Team

MESSAGE NO.: <u>M - 1</u> TIME: <u>0905 (Approx.)</u>

LOCATION: Unit 2 RAB, Drumming Room Entrance

MESSAGE:

Controller Note: Provide the following <u>information only</u> to the First-Aid/Decon team members as they earn it by performing the appropriate action.

Vitals:

Respiration:	24
Pulse:	85
B/P:	140/96
Skin:	Pale and wet with perspiration.
Pupils:	Equal.

Survey results of injured Operator:

PC's (general):		5000 cpm >Bkg
Right sleeve:		3000 cpm >Bkg
Gloves:	•	5000 cpm >Bkg
SRD:		10 mR

After PC's are removed:

Right forearm, wound area:	2500 cpm >Bkg
Face, left cheek:	1000 cpm >Bkg
Right hand:	5000 cpm >Bkg
Left Knee:	2000 cpm >Bkg

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4.2.2-1



TO: First-Aid/Decon Team

MESSAGE NO.: <u>M - 2</u> TIME: <u>0915 (Approx.)</u>

LOCATION: Unit 2 RAB

MESSAGE:

Controller Note: Provide the following <u>information only</u> to the First-Aid/Decon team members as they earn it by performing the appropriate action.

Vital Signs while preparing for transport:

Respiration:		36, shallow, irregular.
Pulse:		110
B/P:		148/98
Skin:		Pale, cool and diaphoretic
Pupils:	1	Equal, responsive

Patient is still complaining of headache and dizziness, is becoming less lucid, less responsive.



FPL/PSL

TO: First-Aid/Decon Team

MESSAGE NO.: <u>M - 3</u> TIME: <u>0945 (Approx.)</u>

LOCATION: <u>Ambulance Loading Point</u> MESSAGE:

Controller Note: Provide the following <u>information only</u> to the First-Aid/Decon team members as they earn it by performing the appropriate action.

Initial decontamination efforts (if performed) yield the following results:

Right forearm, Wound area: 1500 cpm >Bkg

Left Knee: Background

Face, left cheek: 100 cpm >Bkg

Right hand:100 cpm >Bkg



TO: Ambulance Medical Team

MESSAGE NO.: <u>M - 4</u> TIME: <u>1000 (Approx.)</u>

LOCATION: <u>Ambulance Loading Point, Enroute to Martin Memorial</u> MESSAGE:

When the patient is examined and evaluated by Ambulance Medical Team and the entire transport to the Martin Memorial Hospital, provide the following <u>information only</u> as it is earned by the ambulance medical team's actions:

Vitals:

43, irregular.
116
186/100
Pale, clammy, moist
Equal, responsive

Patient is still disoriented, is responsive to painful stimuli but unable to communicate lucidly.

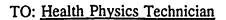
Wound:

There is a shallow laceration outside the right forearm between elbow and wrist approximately 18 cm in length. There is considerable venous bleeding and no evidence of any possible tendon/nerve damage.



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MESSAGE NO.: <u>M - 5</u> TIME: <u>1030 (Approx)</u>

LOCATION: <u>Martin Memorial Hospital</u> MESSAGE:

After the transfer of the patient from the ambulance into the treatment area, clearing of ambulance protective coverings and proper removal of protective clothing by ambulance personnel--survey/status of the ambulance and attendants is:

Ambulance: All Areas Background

Transfer Route: All Areas Background

Ambulance Team Members: All Areas Background







TO: Medical Team

MESSAGE NO.: <u>M - 6</u> TIME: <u>1030 (Approx.)</u>

LOCATION: Martin Memorial Hospital

MESSAGE:

When the patient is examined and evaluated by Medical Team:

Vitals:

Respiration:	38, irregular.
Pulse:	110
B/P:	186/100
Skin:	Pale, clammy, moist
Pupils:	Equal, responsive

Patient is still disoriented, is getting stronger and more responsive.

Wound:

There is a shallow laceration outside the right forearm between elbow and wrist approximately 18 cm in length. There is considerable venous bleeding and no evidence of any possible tendon/nerve damage. The patient is becoming more reactive to inquiry and stimuli and there may be an injury to the head caused by the fall.



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TO: Medical Team

MESSAGE NO.: M - 7 , TIME: 1045 (Approx.)

LOCATION: Martin Memorial Hospital

MESSAGE:

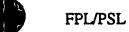
Additional patient status during examination:

Vitals:

Pulse:	100
Respiration:	28
B/P:	160/104
Skin:	Pale, clammy, moist

Patient is weak, slightly disoriented, but responsive and can answer inquiries.





TO: Health Physics Technician

MESSAGE NO.: <u>M - 8</u> TIME: <u>1050 (Approx.)</u>

LOCATION: <u>Martin Memorial Hospital</u> MESSAGE:

Controller Note: Provide the following <u>information only</u> to the First-Aid/Decon team members as they earn it by performing the appropriate action.

Additional radiological survey results:

Face and cheek:	100 cpm >Bkg
Right hand:	100 cpm >Bkg
Wound:	1500 cpm >Bkg





TO: Health Physics Technician

MESSAGE NO.: <u>M - 9</u> TIME: <u>1100 (Approx.)</u>

LOCATION: <u>Martin Memorial Hospital</u> MESSAGE:

Post-Decon radiological survey results after the first decon:

Face and cheek: Background

Right hand: 100 cpm >Bkg

Wound: 500 cpm >Bkg

FPL/PSL

TO: Health Physics Technician

MESSAGE NO.: <u>M - 10</u> TIME: <u>1115 (Approx.)</u>

LOCATION: <u>Martin Memorial Hospital</u> MESSAGE:

Post-Decon radiological survey results after the second decon:

Right hand:

Background

Wound:

200 cpm >Bkg



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TO: Health Physics Technician

MESSAGE NO.: <u>M - 11</u> TIME: <u>1130 (Approx.)</u>

LOCATION: Martin Memorial Hospital

MESSAGE:

Post-Decon radiological survey results after third decon:

Wound:

Background





TO: Medical Team

MESSAGE NO.: <u>M - 12</u> TIME: <u>1140 (Approx.)</u>

LOCATION: <u>Martin Memorial Hospital</u> MESSAGE:

The third wound irrigation completes decontamination of the patient. All surveys now indicate Background. You may now evaluate release of the patient to conventional treatment areas.



FPL/PSL

TO: Health Physics Technician

MESSAGE NO.: M - 13 TIME: 1150 (Approx)

LOCATION: <u>Martin Memorial Hospital</u> MESSAGE:

After the transfer of the patient, proper exit and removal of protective clothing by Medical personnel--survey/status is:

Patient:

All Areas Background

Stretcher:

All Areas Background

Medical Team Members:

All Areas Background



FPL/PSL

TO: Medical Team

MESSAGE NO.: M - 14 TIME: 1200 (Approx.)

LOCATION: Martin Memorial Hospital

MESSAGE:

The Radiological Medical Emergency Drill is terminated. An in-place critique and discussion will take place.



FPL/PSL