



ENTERGY

**RIVER BEND STATION
STATION SUPPORT MANUAL
*EMERGENCY IMPLEMENTING PROCEDURE**

****EVACUATION, PERSONNEL ACCOUNTABILITY,
AND SEARCH AND RESCUE***

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1 **PURPOSE**

This procedure provides the steps to be followed if a Limited, Building, or Owner Controlled Area Evacuation becomes necessary.

2 **REFERENCES**

- 2.1 Title 10, Code of Federal Regulations, Part 20 (10CFR20), Standards for Protection Against Radiation
- 2.2 River Bend Station Safeguards Contingency Plan
- 2.3 ADM-0060, First Responder Emergency
- 2.4 RBNP-035, Hazardous Material Emergency Response Plan
- 2.5 FPP-0010, Fire Fighting Procedure
- 2.6 PSP-4-413, Safeguards Contingencies
- 2.7 EIP-2-012, Radiation Exposure Controls
- 2.8 EIP-2-016, Operations Support Center
- 2.9 RP-104, Personnel Contamination Event

3 **DEFINITIONS**

- 3.1 Alternate Evacuation Assembly Area - A designated area where evacuees may assemble for radiation monitoring during an Owner Controlled Area evacuation. This assembly area is located at the intersection of West Feliciana Parish (WFP) 7 (State Highway 965) and the River Access Road (see Attachment 7). The evacuation route from the Protected Area is through the Alternate Evacuation Point (South Train Gate). Individuals in the Protected Area will proceed on foot down River Access Road, past Grant Substation to the junction of West Feliciana Parish (WFP) 7 (State Highway 965) to the Alternate Assembly Area. Transportation will be provided at that point. Individuals outside of the Protected Area should follow directions from Security personnel and posted signs.

- 3.2 Alternate Evacuation Point - The alternate egress point from the Protected Area that may be used, if necessary, during an Owner Controlled Area Evacuation. It is sometimes referred to as the "South Train Gate" (see Attachment 7). This is the Evacuation Point used for proceeding to the Alternate Evacuation Assembly Area.
- 3.3 Building Evacuation - The withdrawal of all personnel from one building.
- 3.4 Evacuation Assembly Area East - The Training Center, located at the intersection of the River Bend Power Station Road and the west Training Center parking lot entrance (see Attachment 7). The evacuation route is through the Primary Access Point (PAP) to the River Bend Power Station Road via private vehicle and then to the Training Center.
- 3.5 Evacuation Assembly Area West - The River Bend Activity Center, located near the intersection of the River Bend Power Station Road and West Feliciana Parish (WFP) 7 (State Highway 965) (see Attachment 7). The evacuation route is through the Primary Access Point (PAP) to the River Bend Power Station Road via private vehicle and then to the River Bend Activity Center.
- 3.6 Limited Evacuation-The withdrawal of individuals from a room or area due to a localized hazard.
- 3.7 Limited/Building Evacuation Accountability - Actions taken that attempt to determine the evacuation status of individuals within the Limited/Building area.
- 3.8 Non-essential Personnel - Non-essential personnel includes employees not having emergency assignments, visitors, contractor personnel (excluding Security), and members of the public within the Owner Controlled Area.
- 3.9 Owner Controlled Area Evacuation - The withdrawal of all non-essential personnel from the Owner Controlled Area, which includes the Protected Area, whenever extensive unexpected and uncontrolled hazards exist.
- 3.10 Primary Evacuation Point - For the protected area, the PAP is used (see Attachment 7). This is the Evacuation Point used for proceeding to the Evacuation Assembly Areas East and West.
- 3.11 Protected Area Accountability - Actions taken to determine the evacuation status of individuals within the Protected Area.

- 3.12 Search and Rescue Team - Teams used to locate missing/unaccounted individuals and to provide assistance in removing individuals from the evacuated area. Search and Rescue Teams should be composed of at least two persons selected from Radiation Protection Technicians, Chemistry Technicians, Nuclear Control Operators/Nuclear Equipment Operators, or First Responders. If one of the team members is not an RP Technician, at least one of the team members must be trained in the use of radiation survey instruments. At least one team member must be trained in search and rescue techniques.

4 **RESPONSIBILITIES**

- 4.1 Emergency Director - implements this procedure if a Site Area Emergency or General Emergency has been declared, or if conditions warrant implementation of a Limited, Building, or Owner Controlled Area Evacuation.
- 4.2 Radiation Protection Coordinator - initiates monitoring and decontamination, as necessary.
- 4.3 Security Coordinator - coordinates the accountability of personnel in an evacuation.

5 **GENERAL**

- 5.1 ALARA principles shall be adhered to prior to initiating an evacuation. Considerations should be given to 1) radiological conditions at the Assembly Points, onsite and along evacuation routes; and 2) whether these conditions can be mitigated prior to evacuees receiving significant exposure.
- 5.2 Plant or site evacuations should be initiated either before or after the passage of a release, and evacuation routes should be chosen such that evacuees travel away from the path of the plume.
- 5.3 The safety of evacuees takes precedence over the monitoring of evacuees and vehicles for contamination control purposes. The monitoring of evacuees and vehicles should be terminated (or not implemented) if monitoring may increase the hazard to individuals.

PROCEDURE**NOTE**

The actions of this procedure may be completed in any sequence, however, the sequence presented is recommended.

6.1 Limited Evacuation/Building Evacuation

6.1.1 The Emergency Director should use Attachment 1 as a guideline.

6.1.2 The Radiation Protection Technicians at the assembly location should:

1. Determine if any evacuees are injured:
 - a. Report status to the Emergency Director immediately (or the Operations Support Center (OSC) Director if the OSC is operational).
 - b. Administer first aid procedures to the extent of capability until relieved by the designated First Responders on shift.
 - c. Assist in implementing ADM-0060 until injured persons no longer need assistance or are removed from the assembly location.
2. Assist Security in determining if all persons in the evacuated area have been accounted for.
3. As necessary, perform radiological monitoring of evacuees and implement RP-104.
4. If significant radioactive contamination is found on any individual in the assembly location, notify the Emergency Director (or OSC Director if the OSC is operational) of the individual's evacuation route and that this route may be contaminated.
5. Upon completion of personnel surveys, monitor the assembly location for radioactive contamination and decontaminate or post as applicable.
6. Notify the Emergency Director (or the OSC Director if the OSC is operational) when the above tasks are completed.

NOTE:

If an evacuation is ordered by the Emergency Director, the on duty Security Shift Supervisor will act as the TSC Security Coordinator (for evacuation actions only), until relieved by a qualified individual. While in this capacity, the Security Shift Supervisor will not physically report to the TSC.

6.1.3 The Security Coordinator should use Attachment 4 as a guideline.

6.2 Owner Controlled Area Evacuation

6.2.1 The Emergency Director should use Attachment 2 as a guideline.

6.2.2 The Radiation Protection Coordinator should:

1. IF a radiological release has already occurred, is occurring, or is imminent, THEN ensure the dispatch of Radiation Protection Technicians (at least two) to the Assembly Area.
2. Determine the existent or potential hazards in the area and brief the Security Coordinator on the hazards and protective measures necessary to protect Security Officers and individuals within the Owner Controlled Area.
3. Advise the Security Coordinator on affected wind sectors (centerline and two side sectors) and the need to establish special evacuation routes due to a radiological release or other plant conditions.

6.2.3 The Security Coordinator should use Attachment 5 as a guideline.

6.2.4 The Security Shift Supervisor, as directed, should:

NOTE:

Evacuation will be conducted by security personnel not filling security positions required to maintain the station's protective strategy.

1. Receive an evacuation briefing from the Security Coordinator, if available.
2. Assign available Security Officer(s) to conduct the evacuation of the Owner Controlled Area.

3. Ensure officer(s) assigned evacuation duties obtain one of the OCA evacuation bags in the Access Control Station (ACS).
4. Members of the public may occupy some outlying buildings. Security is responsible to notify those individuals of any radiological hazards, protective measures, and evacuation routes.
5. If directed, dispatch other available officer(s) to the selected Assembly Area to assist in traffic control and an orderly evacuation process.
6. Establish controls to prevent persons from entering evacuated areas.
7. Direct the officer(s) at the security checkpoint to stop all incoming traffic, except those necessary to respond to the plant emergency. Use the Security Authorization List (Emergency Director/Recovery Manager) for authorization to enter the site.
8. Process emergency vehicles through the security checkpoint and Sally Port in accordance with Security procedures.
9. Ensure the additional requirements during emergency evacuation (Event E-1) in the RBS Safeguard Contingency Plan and PSP-4-413 (Safeguards Information) are met.

6.2.5 The Security Officer should:

1. Perform duties as directed.
2. Prior to evacuating the Owner Controlled Area buildings and outside areas, receive a briefing on the evacuation announcement including applicable radiation hazards, evacuation routes, assembly area (if required), and radiation monitoring (if required) for evacuees.

NOTE:

Officers will unlock any gates or buildings to facilitate an evacuation, as needed.

3. IF the evacuation information includes directions to the West or Alternate Assembly Area (Activity Center), THEN unlock the appropriate gate(s) to allow egress.

4. Obtain one of the Owner Controlled Area (OCA) evacuation bags from the Access Control Station (ACS). The bag(s) should contain the following equipment/tools:
 - * Keys to all outlying buildings
 - * Portable public address device (w/batteries, if applicable)
 - * Evacuation Announcement script (Attachment 8 or 9)
 - * List of buildings in the OCA to evacuate (Attachment 6)
 - * RBS 1-mile radius site map
 - * Bolt cutters
5. Evacuation activities:

NOTE:

It is not necessary to enter outlying buildings where all entrances are padlocked.

- a. Enter each building and announce the evacuation using the prescribed message.
- b. Avoid lingering in buildings to answer questions.
- c. A search of every office is not necessary.
- d. An evacuation announcement is not necessary in buildings/areas where Security has confirmed that no personnel are present.
- e. Single story buildings should be entered and the announcement made from a location adjacent to the doorway. It is not necessary to walk through an entire building to make evacuation announcements. Multiple entryways, such as those at Field Administration, Main Administration, or other similar locations, should be entered and an announcement made from an appropriate location.
- f. Multi-story office buildings should be entered on each floor and the announcement made from an appropriate location (e.g., each floor of the Generation Support Building may be notified by exiting the elevator/stairwell on each floor and making the announcement from a location near the elevator/stairwell).

- g. Evacuation Officer(s) may designate personnel inside the buildings to spread the evacuation announcement, provided the employee(s) are given appropriate information, such as applicable radiation hazards, evacuation routes, assembly areas, and required monitoring.
- h. The evacuation Officer(s) should contact the Security Shift Supervisor (or designee) when a building or area has been completed to assist security supervision in tracking the progress of the OCA evacuation.
- i. When passing wooded areas or parked vehicles along plant roads, make frequent stops and make announcements from the vehicle window.

6.2.6 The Radiation Protection Technicians at the Assembly Area should:

- 1. Obtain radios and appropriate equipment for monitoring and decontamination at Alternate Assembly Area.
- 2. Establish communications with the Radiation Protection Coordinator.
- 3. When surveying vehicles, have driver and passengers remain in the vehicle until the survey of the outside of the vehicle is complete.
- 4. Survey areas outside of the vehicle such as:
 - front bumper
 - grill
 - tires
 - fender wells
 - door handles
 - rear bumper
 - outside of air cleaner

5. IF vehicle is contaminated, THEN have evacuee move vehicle to designated parking area and assemble using the following guidelines:
 - a. IF the Assembly Area East is used, THEN direct evacuees to park their vehicles in the Training Center parking lot in a designated location for isolation and have the individuals assemble outside the West end entrance to the Emergency Operations Facility (EOF) (see Attachment 10).
 - b. IF the Assembly Area West is used, THEN direct evacuees to park their vehicles in the River Bend Activity Center parking lot in a designated location for isolation of the vehicles and have the individuals assemble on the East side of the River Bend Activity Center (see Attachment 11).
 - c. IF the Alternate Assembly Area is used, THEN direct evacuees to assemble in a designated isolated location and request guidance from the Radiation Protection Coordinator in the TSC or the Emergency Director.
6. Record the location and readings of any contamination found.
7. Survey evacuees from the clean vehicle parking area and decontaminate, as necessary, in accordance with RP-104. If no contamination is found, direct evacuees to leave the area.
8. Survey evacuees from the contaminated vehicle parking area and decontaminate, as necessary, in accordance with RP-104. If no contamination is found, direct evacuees to a "clean waiting area" or offsite.
9. Record the location and readings of any contamination found.
10. When time permits and after completion of personnel decontamination, begin decontamination of vehicles.
11. If necessary, request back-up Radiation Protection assistance from the Radiation Protection Coordinator in the TSC.

12. Notify the Radiation Protection Coordinator when the following tasks are completed:
 - a. All personnel and vehicles identified as contaminated have been decontaminated or have been detained for further evaluation and possible additional decontamination.
 - b. All areas and equipment requiring decontamination have been decontaminated or identified for further evaluation and possible additional decontamination.
13. Return documentation to the Radiation Protection Coordinator.

6.3 Search and Rescue Operations

6.3.1 The Emergency Director should use Attachment 3 as a guideline.

6.3.2 The Radiation Protection Coordinator should:

1. Obtain information on likely areas to be searched from the Emergency Director or Security Coordinator.
2. Contact and consult with the Senior Radiation Protection Technician regarding conditions and precautions necessary to be used in the area(s) of the search, and appropriate protective equipment and dosimetry.

6.3.3 The Operations Support Center Director should:

NOTE:

At least one member of the Search and Rescue Team must be survey meter trained.

1. Record the team members' names, time the team is dispatched and dosimetry information, including accumulated effective dose equivalent for each team member in the OSC log.
2. Brief team members on areas to be searched and document all team actions during search and rescue operations.
3. WHEN the Search and Rescue Team reports finding the missing individual(s), THEN contact the Emergency Director to report the status of the individual(s).

6.3.4 The Senior Radiation Protection Technician should:

1. Using the team briefing checklist in EIP-2-016, brief the team members on the radiological hazards involved, emergency exposure limits and specify dosimetry and protective clothing/equipment to be utilized.
2. Specify routes for the team to follow in order to minimize radiation exposures of team members, as possible.
3. Caution the team members to keep the OSC informed of accumulated exposures.

6.3.5 The Search and Rescue Team members should:

1. Receive a briefing from the Senior Radiation Protection Technician and the OSC Director/Manager.
2. If the missing individual is found and requires first aid treatment:
 - a. Contact the Control Room and request announcement over the Page Party/Gaitronics for dispatch of First Responders.
 - b. Make a quick assessment of the individual's condition and the need to move the person from the present location.
 - c. If there is not an immediate hazard from the present surroundings, administer first aid on-the-spot, if qualified.
3. Notify the OSC Director of the status of the individual(s).
4. Upon completion of the assignment, report accumulated exposures to the Senior Radiation Protection Technician.

7 **DOCUMENTATION**

Attachments 1-5 of this procedure will be sent to Permanent Plant Files (PPF) per EPP-2-100 by the Manager - Emergency Preparedness.

EMERGENCY DIRECTOR

LIMITED OR BUILDING EVACUATION

DISCUSSION:

In general, limited or building evacuations will be in accordance with the following guidelines:

- 1. A limited evacuation may be implemented when any of the following conditions exist:*
 - a. Unexpected area radiation monitor high level alarms are received.*
 - b. Unexpected high airborne activity as identified by the activation of a continuous air monitor or RP air sample analysis.*
 - c. Unexpected increase of radioactive surface contamination in an area previously designated clean or in excess of expected levels as identified on a Radiation Work Permit.*
 - d. Upon discovery of a large radioactive (or suspected radioactive) liquid spill.*
 - e. Other emergency conditions occur, such as fire or hazardous gas encounters, that may endanger human health or safety.*
- 2. A building evacuation may be declared when either of the following occur:*
 - a. Criteria for a limited evacuation are exceeded in two or more large operating areas within one building;*

OR

 - b. An unexpected or uncontrolled exposure rate in excess of the expected dose rate as indicated by an area radiation monitor alarm within a single building.*

EMERGENCY DIRECTOR
LIMITED OR BUILDING EVACUATION

	Date: _____ Time: _____	<u>Action Completed</u> <u>Initials</u>
<u>ACTIONS:</u>		
1.	Determine an assembly location (normally the second floor hallway of the Services Building outside of the CAA). If the second floor hallway of the Services Building is included in the hazard area, designate an alternate location for evacuated personnel.	_____
2.	Direct RP to dispatch a Radiation Protection Technician to assembly location for personnel monitoring, as necessary.	_____
3.	Direct Security to prepare for a Limited/Building Evacuation <u>and</u> complete the Limited/Building Evacuation actions of Attachment 4.	_____
4.	Direct the Control Room to merge the Gaitronics <u>and</u> make the following announcement.	_____
	<u>PULSE tone. "Attention in the plant. Evacuate the (specify area or building) and assemble at the (second floor hallway of the Services Building or alternate location)" (repeat message).</u>	
5.	Implement ADM-0060, First Responder Emergencies, as necessary.	_____
6.	Implement RBNP-035, Hazardous Material Emergency Response Plan, as necessary.	_____
7.	Implement FPP-0010, Fire Fighting Procedure, as necessary.	_____
8.	Upon report of missing individual(s), implement Search and Rescue in accordance with Attachment 3.	_____
9.	When appropriate, direct Control Room to inform personnel that the hazard no longer exists.	_____
10.	Forward the original of this checklist to the Manager - Emergency Preparedness.	_____

EMERGENCY DIRECTOR**OWNER CONTROLLED AREA EVACUATION****DISCUSSION:**

The decision to evacuate members of the public and non-essential station personnel or retain them onsite should be based on the course of action which presents minimum risk to individuals. Examples of extenuating conditions that may result in deciding against an evacuation are:

1. An ongoing security threat (consult with the Security Coordinator to aid in determining the safest course of action).
2. Inclement weather (e.g. tornado, high winds, hazardous road conditions that may preclude a safe evacuation).
3. Radiological hazards exist. (Determine which action would result in lower dose to non-essential personnel.)

ACTIONS:

1. IF a radiological release has NOT occurred AND is NOT judged imminent, THEN Go To Step 10.
2. IF a radiological release has occurred, is in progress, or is judged to be imminent, THEN Go To Step 3.
3. Select an Evacuation Point and Assembly Area using the following guidelines:

Wind Direction From	Evacuation Point	Assembly Area
> 125° - ≤ 260°	South Train Gate	Alternate Assembly Area
> 260° - ≤ 35°	PAP	Training Center <u>OR</u> Activity Center (Back-up)
> 35° - ≤ 125°	PAP	Training Center

_____ PAP/Assembly Area East (Training Center)
 _____ PAP/Assembly Area West (Activity Center)
 _____ South Train Gate/Alternate Assembly Area

EMERGENCY DIRECTOR

OWNER CONTROLLED AREA EVACUATION

- | | | <u>Action Completed</u>
<u>Initial</u> |
|----|---|---|
| 4. | Direct RP to dispatch Radiation Protection Technicians to the selected Assembly Area to monitor and decontaminate evacuees as necessary. | _____ |
| 5. | Direct Security to prepare for an Owner Controlled Area evacuation using the selected Assembly Area and to complete the Owner Controlled Area Evacuation actions in Attachment 5. | _____ |

CAUTION:

*IF a radiological release or other conditions exist which could complicate activities such as evacuation or personnel response to the EOF/JIC, **THEN** announce routing instructions for personnel exiting the Protected Area, including areas to be avoided.*

NOTE

If select personnel or groups are needed to standby until a determination of their services is made, have them report to the cafeteria and standby for further instructions. If radiation levels in the GSB are unsafe for occupancy, direct personnel to an alternate location.

- | | | |
|----|--|-------|
| 6. | Direct the Control Room to merge the Gaitronics and make an announcement similar to the following:

PULSE tone. "Attention in the plant. All personnel <u>not</u> presently assigned to an emergency facility are directed to evacuate. Use the (<u>specify the Primary Access Point or South Train Gate</u>). Engineering, Maintenance, and Operations personnel report to the cafeteria (or alternate location) and standby for further instructions. All other personnel are directed to proceed to the evacuation assembly area (<u>specify location</u>). (Repeat message) | _____ |
| 7. | If the Alternate Assembly Area is being used, Protected Area personnel shall walk to the Alternate Assembly Area. Request that the Louisiana Office of Emergency Preparedness (LOEP) provide transportation for evacuees as necessary. | _____ |
| 8. | At a Site Area Emergency or higher, direct relocation of JIC, if EOF is not operational. | _____ |

EMERGENCY DIRECTOR
OWNER CONTROLLED AREA EVACUATION

		Action Completed
		<u>Initial</u>
9.	Continue at Step 11.	_____
10.	Direct Security to prepare for an Owner Controlled Area evacuation and to complete the Owner Controlled Area Evacuation actions in Attachment 5.	_____
11.	Direct the Control Room to merge the Gaitronics and make an announcement similar to the following. Consider items in note above step #6.	_____
PULSE tone. "Attention in the plant. All personnel <u>not</u> presently assigned to an emergency facility are directed to evacuate. Use the Primary Access Point. Engineering, Maintenance, and Operations personnel report to the cafeteria (or alternate location) and standby for further instructions. All other personnel are directed to go home. (repeat message)		
12.	Upon report of missing individual(s), implement Search and Rescue in accordance with Attachment 3.	_____

EMERGENCY DIRECTOR
SEARCH AND RESCUE OPERATIONS CHECKLIST

Date: _____ Time: _____ Action Completed
Initial

1. If notified that an individual is still within the hazard area, direct the Control Room to merge the Gaitronics and make the following announcement. _____

WARBLE tone. "Attention in the plant. (Name of individual) report your location to the Control Room immediately." (repeat message)

2. If the individual has not contacted the Control Room within approximately two minutes following the second announcement, perform the following:
- 2.1 Direct Security to provide information on likely areas to search. _____
- 2.2 Direct the OSC Director to activate the Search and Rescue Team and provide information on specific plant areas to be searched, and provide any protective measure information needed on potential hazards. _____
- 2.3 If the OSC is not operational, assemble a team composed of personnel identified in Section 3.12. Provide information on specific areas to be searched and provide any protective measure information needed on potential hazards. _____
- 2.4 Authorize team members to exceed exposure limits, as necessary, in accordance with EIP-2-012. _____

SECURITY COORDINATOR

LIMITED OR BUILDING EVACUATION

Date: _____ Time: _____

Action Completed
Initials

1. Establish controls via card readers, cordons, or other means to prevent access into the evacuated area except by authorized personnel. _____
2. Obtain printouts of personnel still in the evacuated area, if card readers control access. If card readers are not available, obtain any information available on personnel that may still be in the evacuated area. _____
3. Report accountability results and any missing persons to the Emergency Director, including information on likely areas to search. _____
4. At the direction of the Emergency Director, establish normal access, as possible. _____

SECURITY COORDINATOR

OWNER CONTROLLED AREA EVACUATION

Date: _____ Time: _____ Action Completed
Initial

NOTE

If the Alternate Evacuation Point (South Train Gate) is to be used, make provisions to open it as soon as possible.

1. When directed, using Attachment 8 or 9 of this procedure and a 1-mile radius map, direct Security personnel to evacuate the Owner Controlled Area (including the Protected Area). If Attachment 9 is used, modify script as needed. The evacuation should be complete within about 30 to 60 minutes of the declaration of the emergency. _____
2. Ensure the appropriate gates and doors are opened to accommodate the evacuation. _____
3. Dispatch any available Officers to the selected Assembly Area, if used. _____
4. Contact West Feliciana Sheriff's Office to request traffic and access control assistance. Provide evacuation route (north/south). Request assistance at Assembly Area, as needed. _____
5. Within approximately 30 minutes of the declaration, provide Protected Area accountability results to the Emergency Director including information on any unaccounted for individuals and likely areas to search. _____
6. Using a RBS one-mile radius map, discuss affected wind sectors and the need to establish special evacuation routes because of a radiological release or other plant conditions (with the RP Coordinator) Evacuation routes should be chosen to lead individuals away from the path of the plume or danger. _____
7. Determine buildings that may be impacted if a release should start. Use Attachment 6 strictly as a guideline, as some building changes may have taken place. _____
8. Determine priority of buildings to be evacuated. Priority should be given to buildings occupied by the public. _____
9. Direct security officers to evacuate the Owner Controlled Area outside of the Protected Area. If an Assembly Area is being used, have Security Officer direct anyone present to evacuate immediately to the Assembly Area along a designated route. _____

SECURITY COORDINATOR

OWNER CONTROLLED AREA EVACUATION

Date: _____ Time: _____

Action Completed
Initial

10. Ensure security officers receive a briefing on potential hazards and any protective measures required. Briefings should include information to be announced to Owner Controlled Area evacuees (including members of the public, visitors, and non-essential employees), applicable radiation hazards, evacuation routes, assembly area and radiological monitoring, as required. _____
11. Establish controls to prevent persons from entering evacuated areas. _____

OWNER CONTROLLED AREA BUILDINGS

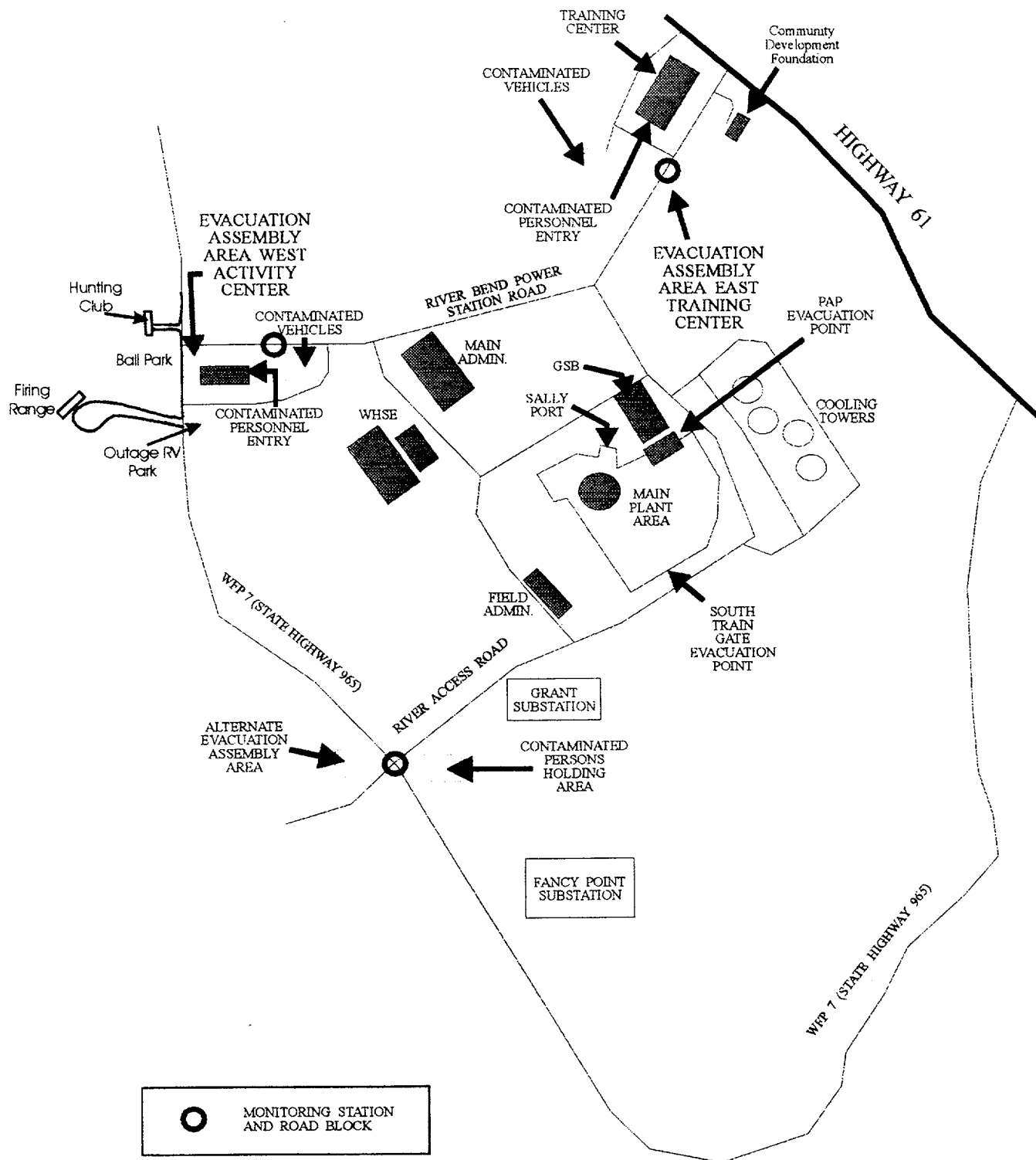
NOTE:

Evacuation announcement should be made as soon as possible to those areas indicated in bold as they may be occupied by members of the public.

DIRECTION (USING PLANT NORTH)	WIND SECTOR	BUILDINGS IN OCA	
NE	A	Training Center # 201 Generation Support Building (GSB) # 36	Community Development Foundation # 202 (Old HR Bldg.)
ENE	B	PAP	Generation Support Building (GSB) # 36
E	C	Cooling Tower Complex # 21, 23-27	
ESE	D	Cooling Tower Complex # 21, 23-27	
SE	E	Cooling Tower Complex # 21, 23-27	
SSE	F	Fire Pump House # 48	Hypochlorite Elect. Equip. Building # 41
S	G	Demineralized Water Pump House # 49 Laydown Storage Area # 43 Old Anco Storage Building # 47	Clarifiers # 44 Low Level Radwaste Storage Building # 53
SSW	H	Lube Oil Storage # 51 Ionics Trailer # 250 Turbine Low Press. Rotor Storage # 103 Low Level Radwaste Storage Bldg. # 53	Fancy Point Wastewater Treatment Facility # 35 Old Anco Storage Building # 47
SW	J	Fancy Point	Hazardous Waste Warehouse # 52
WSW	K	Field Administration Building # 64 Intake Structure Insulator Shop # 61 Training # 63	Grant Substation Icehouse # 60 Outside Maintenance Shop # 62
W	L	Field Administration Building # 64 Welding Shop # 70 Fishing Area	Maintenance Shops: Pipe Shop # 71 Paint Shop # 72
WNW	M	Warehouse Areas # 75, 76, 77, 78	Fishing Area
NW	N	Warehouse Areas # 75, 76, 77, 78 Carpenter Shop # 94 Activity Center # 210 Firing Range # 212 Meteorological Tower # 104	Environmental/Standards Lab Complex # Q79, 79-81 Garage # 95 Rec. Vehicle Park (outage) # LD-5 Ball Park # 214
NNW	P	Garage # 95 Ball Park # 214 Old Stone & Webster Warehouse # 96	Main Administration Building # 99, 98, 97 Hunting Club # 215

No buildings located in Sectors Q & R.

EVACUATION POINTS AND ASSEMBLY AREAS



PR00022M.CDR

**OWNER CONTROLLED AREA EVACUATION ANNOUNCEMENT
NO RADIOLOGICAL RELEASE**

During an emergency, if an Owner Controlled Area evacuation is announced, Security Officer(s) will announce the following information to members of the public and non-essential station personnel in the Owner Controlled Area.

NOTE:

*Make the evacuation announcement in a calm voice with direct authority.
Using a public address system device (i.e., bullhorn), make, frequent stops
at wooded areas and make the announcement.*

ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

Members of the public and non-essential station personnel are directed to evacuate River Bend property.

There is no radiological hazard at this time. Individuals should use their personal vehicle and may use any route to evacuate River Bend property.

**OWNER CONTROLLED AREA EVACUATION ANNOUNCEMENT
RADIOLOGICAL RELEASE**

During an emergency, if an Owner Controlled Area evacuation is announced, the TSC Security Coordinator (or designee) will use the following as a guideline in developing an appropriate evacuation announcement. Complete the announcement by indicating assembly area to be used. Security Officer(s) will then make the announcement to members of the public and non-essential station personnel in the Owner Controlled Area.

NOTE:

*Make the evacuation announcement in a calm voice with direct authority.
Using a public address system device (i.e., bullhorn), make frequent stops
at wooded areas and make the announcement.*

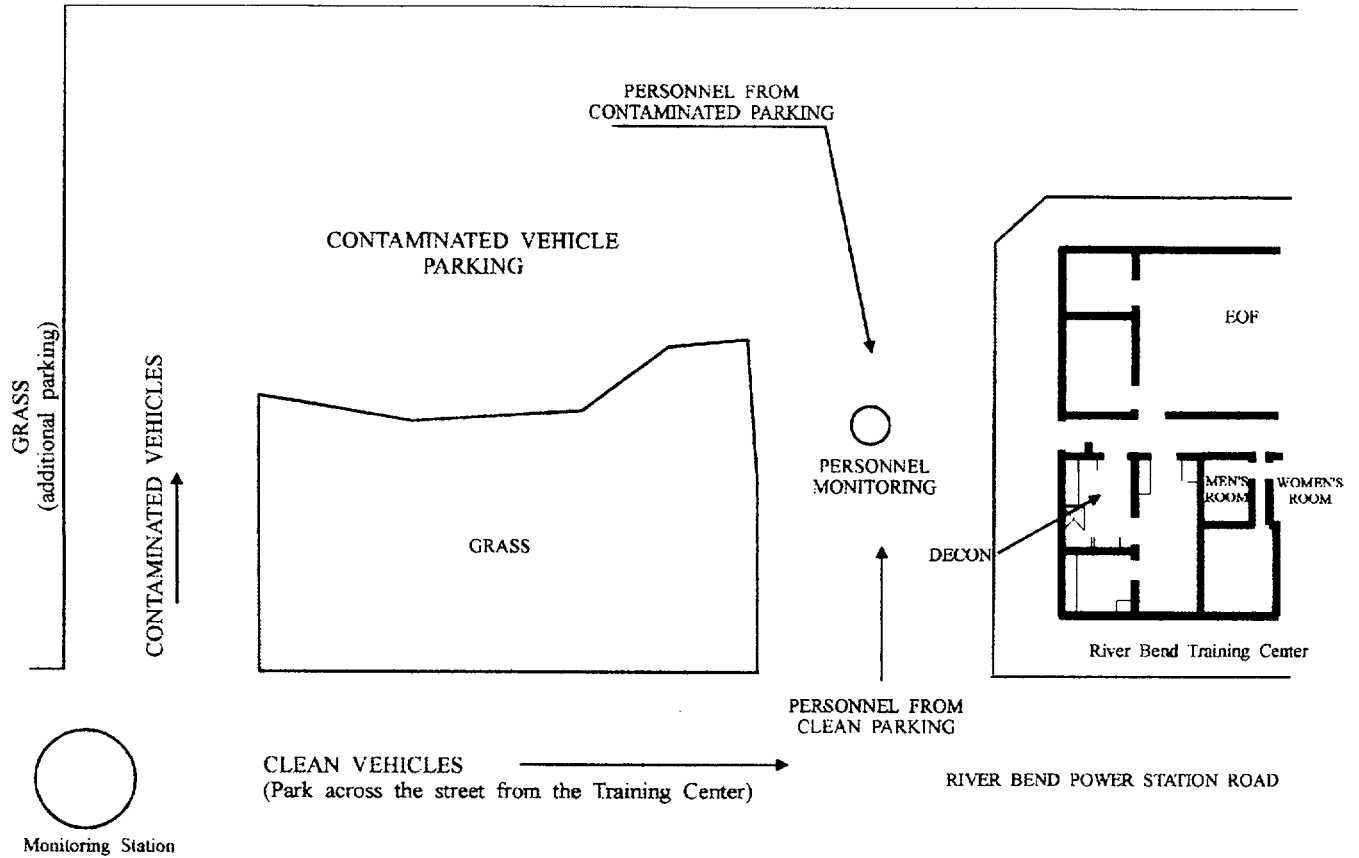
ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

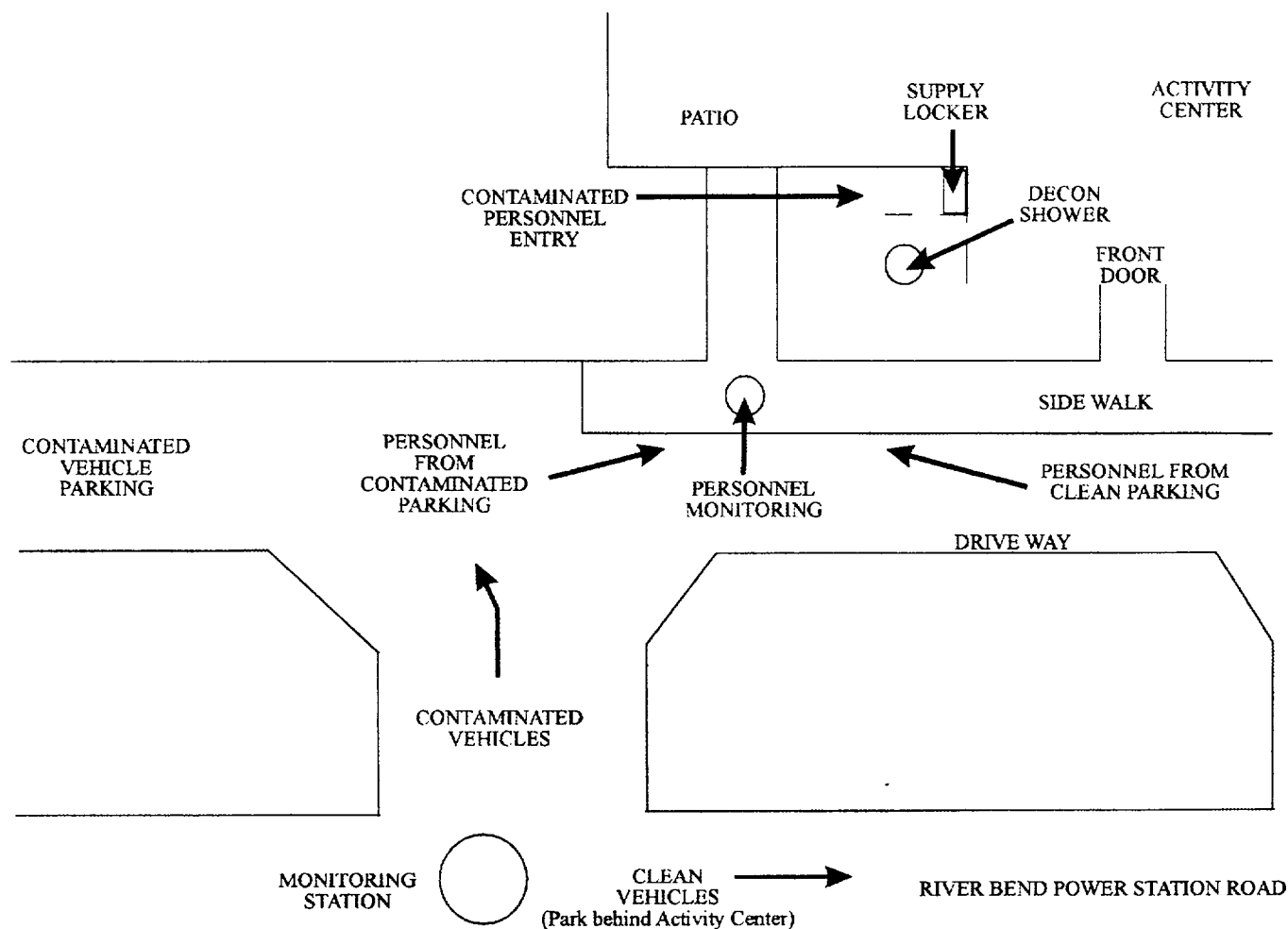
Members of the public and non-essential station personnel are directed to evacuate River Bend property.

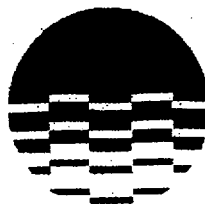
There is a radiological hazard at this time. For your own safety, proceed by personal vehicle to the:

- ☐ **East Assembly Area**
- ☐ **West Assembly Area**
- ☐ **Alternate Assembly Area**

ASSEMBLY AREA EAST LAYOUT
RIVER BEND TRAINING CENTER



**ASSEMBLY AREA WEST LAYOUT
RIVER BEND ACTIVITY CENTER**



ENTERGY

**RIVER BEND STATION
STATION SUPPORT MANUAL
*EMERGENCY IMPLEMENTING PROCEDURE**

***JOINT INFORMATION CENTER**

PROCEDURE NUMBER:

***EIP-2-023**

REVISION NUMBER:

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NOTE : SIGNATURES ARE ON FILE.

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DOCUMENT CONTROL

This procedure has been reviewed for 10CFR50.59 applicability. 10CFR50.50 screening for the programmatic exclusion of all EIP changes, approved by FRC 7/10/97, concludes that further review of changes to this procedure under 10CFR50.59 are not necessary.

REFERENCE USE

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1 **PURPOSE**

This procedure describes the activation of the Joint Information Center (JIC) and the staff functions related to providing a place where all official news regarding the emergency is available from all sources.

2 **REFERENCES**

ECP-2-001, Joint Information Center (JIC) Staff Position Instructions

3 **DEFINITIONS**

- 3.1 Facility Staffing - The process of assembling personnel, verifying equipment operability and making a facility ready to support the emergency response.
- 3.2 Operational - The Joint Information Center (JIC) is considered to be operational when, in the judgment of the JIC Director, sufficient JIC staff and equipment are ready to provide their designated functions in support of the emergency response.

4 **RESPONSIBILITIES**

- 4.1 JIC Director - The JIC Director's responsibilities include, but, are not limited to the following:
 - 4.1.1. Coordinate activation of JIC personnel.
 - 4.1.2. Ensure that the JIC is made operational in accordance with procedure.
 - 4.1.3. Provide timely and accurate information to the public through the media.
 - 4.1.4. Control rumors and misinformation.
 - 4.1.5. Report directly to the Recovery Manager.

- 4.1.6. Manage all public information functions.
- 4.1.7. Coordinate joint agency spokespersons.
- 4.2 JIC Staff - Ensure that the JIC is made operational in accordance with procedure and provide support to the JIC operation as directed.

5 **GENERAL**

- 5.1 The JIC is located on the first floor of the Training Center (See Attachment 1).
- 5.2 The JIC is staffed by licensee personnel along with representatives from the State of Louisiana, the five parishes within the ten-mile Emergency Planning Zone (EPZ), the State of Mississippi, the Nuclear Regulatory Commission, the Federal Emergency Management Agency and other federal agencies if and as they respond.
- 5.3 An Alternate location for the JIC is provided at the North Boulevard Building in Baton Rouge in the event that the primary location becomes uninhabitable or is not functional.
- 5.4 The JIC is activated at an Alert or higher declaration.

6 **PROCEDURE**

- 6.1 The JIC Director should:
 - 6.1.1. Upon receiving a Notification of Unusual Event (NOUE):
 - 1. Acknowledge the NOUE using the pager verification phone number and entering your social security number as the identification code.
 - 2. Call the Control Room and verify the NOUE and plant status with the Recovery Manager.
 - 3. Call the Echelon Communications Group/Corporate Emergency Center (CEC) using the Emergency Telephone Book, Section IV-B, phone numbers. Inform them of the NOUE declaration and determine if a news release is appropriate. Keep Recovery Manager informed of all news releases.

4. Maintain periodic contact with the Recovery Manager in the Control Room on the status of the NOUE, news releases, and termination of the NOUE.
- 6.1.2. Upon being notified of an Alert, Site Area Emergency, or General Emergency, acknowledge the receipt using the pager verification phone number and entering your social security number as the identification code. At an Alert proceed to the JIC and carry out duties and responsibilities. At a Site Area or General Emergency proceed to the Alternate JIC to carry out the duties and responsibilities. Ensures media notification (LC #13612).
- 6.1.3. If notified at any time by the Recovery Manager that the JIC is uninhabitable or should be relocated, direct relocation of the JIC staff to the alternate facility at North Boulevard in Baton Rouge, per ECP-2-001, Joint Information Center (JIC) Staff Position Instruction.
- 6.1.4. Participate in the initial recovery planning meeting and with the Recovery Manager, determine the extent to which the JIC should remain operational during the recovery phase.
- 6.1.5. When the Recovery Manager agrees, deactivate the JIC and make assignments for any news releases during recovery operations. Ensure that all documentation is forwarded to the Manager-Emergency Preparedness.
- 6.2 Using ECP-2-001, Joint Information Center (JIC) Staff Position Instruction and the Facility Setup Manuals, as a guide, the following JIC positions will perform the duties described:

NOTE

The JIC Director and staff will proceed directly to the Alternate JIC when the first notification of an event at River Bend Station is a Site Area or General Emergency.

- 6.2.1. The **Media Liaison** should provide information to the media present at the JIC, assist with news conferences, and arrange interviews when possible. The Media Liaison reports to the JIC Director and will assume the duties of the JIC Director as required.

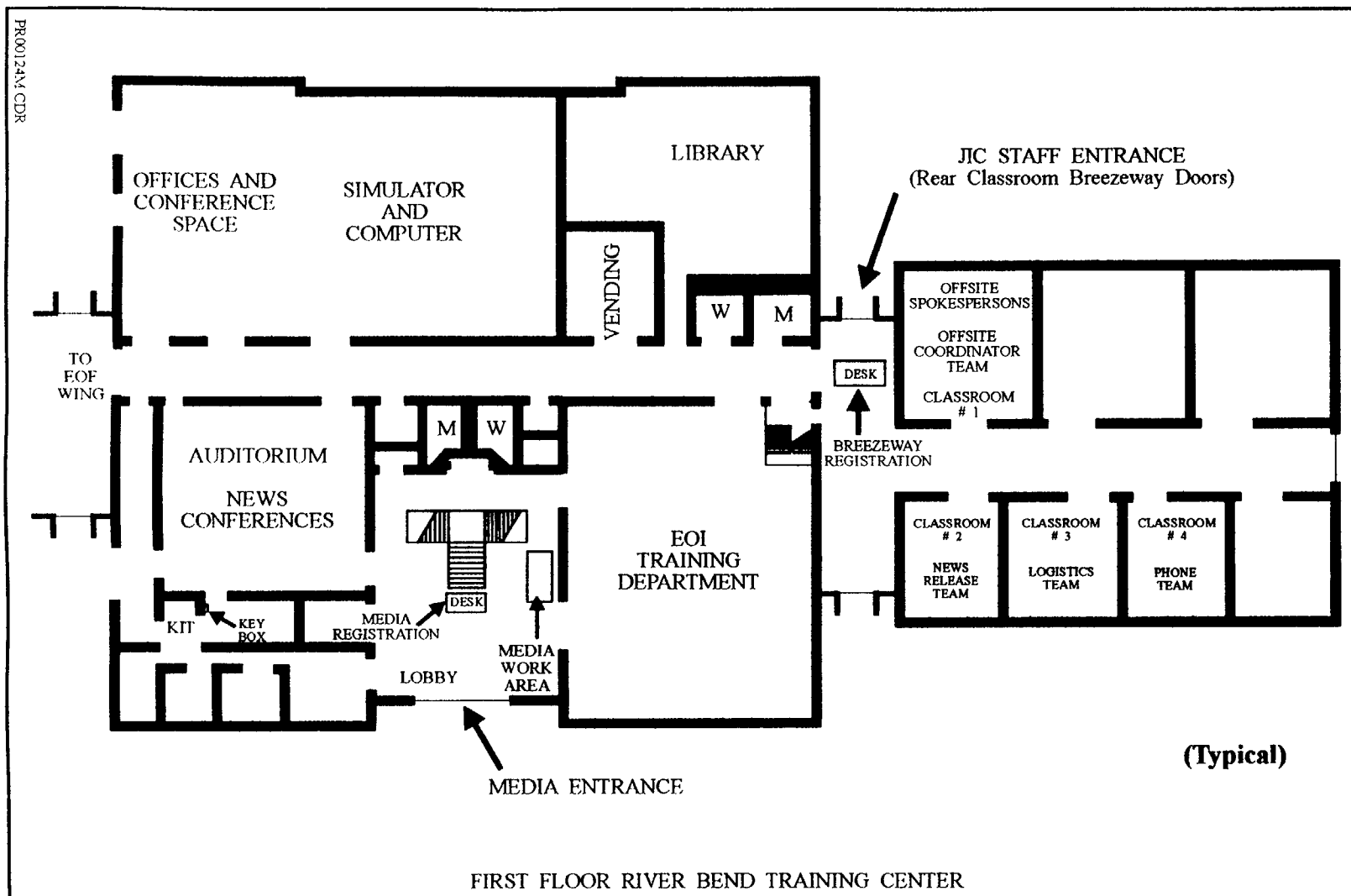
- 6.2.2. The **Events Information Team** in the EOF should provide a source of technically correct and accurate information to the JIC (Classroom 2).
- 6.2.3. The **Logistics Team** should provide staffing, administrative and logistic support for the JIC, and distribute news releases. The Logistics Team Supervisor reports to the JIC Director. The Logistics Team reports to the Logistics Team Supervisor. They maintain the master files, duplication, distribution, and assist in the activation/deactivation of the JIC.
- 6.2.4. The **News Release Team** should receive all technical input from the Events Information Team and prepare news releases from acquired information for the JIC Director's signature. Assist Entergy Operations Spokesperson with technical input for news conferences. Establish contact with and provide information to the Corporate Emergency Center (CEC). Monitors Emergency Alert System (EAS) and news stations. Interface with Parish and State liaisons.
- 6.2.5. The **Entergy Operations Inc. Spokesperson** should provide accurate and timely dissemination of EOI information to the media at all news conferences.
- 6.2.6. The **Offsite Coordinator Team** should serve as the primary Entergy Operations contact for offsite spokespersons at the JIC and reads EOI news releases for confirmation from offsite agencies. The Offsite Coordinator Team reports to the JIC Director.
- 6.2.7. The **Rumor Control Coordinator** should take appropriate actions regarding incoming media/public queries and rapidly act upon rumors or misinformation identified by Phone Team or other sources. The Rumor Control Coordinator reports to the JIC Director.
- 6.2.8. The **Phone Team** should contact the media upon activation of the Joint Information Center, provide responses to incoming media and public queries, and rapidly act upon rumors or misinformation. The Phone Team reports to the News Manager.
- 6.2.9. The **Parish/State Liaisons** should proceed to the State and Parish Emergency Operations Centers (EOCs), and provide clarification on plant status and actions through communications with the JIC.

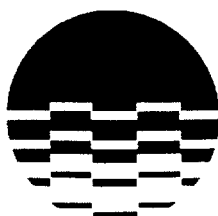
- 6.2.10. The **Breezeway/Media Registration Team** should establish and maintain access control at the Training Center JIC Staff (breezeway) entrance and the Media (auditorium lobby) entrance, (See Attachment 1).
- 6.2.11. The **Audio/Visual Person** should provide setup and operational checks of all audio/visual equipment in the Training Center Auditorium. The Audio/Visual Person reports to the Media Liaison.

7 **DOCUMENTATION**

Send any documentation of NOUE actions to the Manager-Emergency Preparedness.

JOINT INFORMATION CENTER - FLOOR PLAN





ENTERGY

**RIVER BEND STATION
STATION SUPPORT MANUAL
*EMERGENCY IMPLEMENTING PROCEDURE**

****EMERGENCY EQUIPMENT INVENTORY***

PROCEDURE NUMBER:

***EIP-2-103**

REVISION NUMBER:

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1 **PURPOSE**

The purpose of this procedure is to provide instructions for the periodic inventory, inspection, and calibration verification of emergency equipment.

2 **REFERENCES**

RPP-0022, Respiratory Protection Equipment Cleaning, Inspection, and Repair

3 **DEFINITIONS**

NONE

4 **RESPONSIBILITIES**

4.1 Manager - Emergency Preparedness - ensures maintenance, and availability (as appropriate) of emergency equipment which may be required during an emergency.

4.2 Superintendent-Radiation Control - ensures calibration of radiological monitoring equipment and maintenance of respiratory equipment.

4.3 Emergency Planner - schedules and conducts inventories.

5 **GENERAL**

The RP instruments at Our Lady of the Lake Hospital are stored in the Nuclear Medicine lab.

NOTE

The actions of this procedure may be completed in any sequence, however, the sequence presented is recommended.

- 6.1 The Manager - Emergency Preparedness should:
 - 6.1.1. Review all attachments and indicate review by signing Attachment 1.
 - 6.1.2. Ensure that deficiencies and inventories are corrected as necessary. The contents of emergency lockers should match the equipment listed in this procedure.
- 6.2 The Emergency Planner should:
 - 6.2.1. Inventory equipment listed in Attachments 2 through 11 quarterly, after each use and any time it is suspected that the equipment has been tampered with or used for unauthorized purposes. An inventory of emergency equipment shall be performed within 48 hours after a drill/exercise for all kits and lockers where the integrity has been compromised (LC #13622).
 - 6.2.2. Perform an operational check of portable survey instruments as follows:
 - 1. Check calibration sticker date.
 - 2. Visual inspection for physical damage.
 - 3. Perform battery check.
 - 4. Use check source provided, obtain reading above background.

- 6.2.3. Perform an operational check of portable air sampler instruments as follows:
1. Check calibration sticker date,
 2. Visual inspection/housing integrity,
 3. Briefly run sampler, and
 4. Inspect O-rings for signs of cracking/brittleness. Replace as necessary.
- 6.2.4. Perform an operational check of portable radios.
- 6.2.5. Immediately correct identified deficiencies or document deficiencies on the EP Action Item Tracking database if immediate corrective action cannot be performed.

NOTE

Silver Zeolite Cartridges are considered hazardous waste and must be disposed of in an appropriate manner. Contact Environmental Services for disposal requirements.

- 6.2.6. If calibration dates are found that will expire within the next inventory period, notify Radiation Protection by memorandum and copy to file.
- 6.2.7. If a locker/kit deficiency cannot be corrected in one day notify the Manager - Emergency Preparedness.
- 6.3 The Superintendent-Radiation Control should:
- 6.3.1. Ensure the calibration of radiation monitoring equipment in accordance with applicable procedures.
 - 6.3.2. Ensure the availability of sufficient reserves of instruments and equipment from normal station inventories to replace instruments/ equipment removed from the emergency lockers/kits for calibration or repair.
 - 6.3.3. Ensure that respiratory equipment is inspected at least once each month in accordance with RPP-0022.

DOCUMENTATION

Completed inventory sheets shall be maintained by Emergency Planning for a period of 12 months. Attachments 1-11 shall be forwarded to Permanent Plant Files (PPF).

INVENTORY COVER SHEET

UNSAT. SAT.

- A. Quarterly Emergency Equipment Locker
Inventory (Attachments 2 - 11)

Reviewed By:

_____/_____/_____
Manager - Emergency Preparedness KCN Date

Additional Comments: _____

MAIN CONTROL ROOM

DESCRIPTION: MAIN CONTROL ROOM EMERGENCY LOCKER					LOCATION: MAIN CONTROL ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
TSC/CR Communicator headset	1		N/A	N/A	SAT/UNSAT	
Radioactive Material Tags	10		N/A	N/A	SAT/UNSAT	
Calculator	1		N/A	N/A	SAT/UNSAT	
Contamination Smears	1 Box		N/A	N/A	SAT/UNSAT	
Smear Envelopes	1 Box		N/A	N/A	SAT/UNSAT	
Particulate Filters	1 Box		N/A	N/A	SAT/UNSAT	
Silver Zeolite Cartridges	5		N/A		SAT/UNSAT	
Dosimeter 0-500 mR	15		N/A		SAT/UNSAT	
Dosimeter 0-1 R	5		N/A		SAT/UNSAT	
Dosimeter 0-10 R	5		N/A		SAT/UNSAT	
Dosimeter Charger	1		N/A	N/A	SAT/UNSAT	
Low Range Ion Chamber Rate Meter B/G 0-50 R/Hr R02(A) or equivalent	2				SAT/UNSAT	
G/M Frisker RM 14 (or equivalent) with Probe	1				SAT/UNSAT	
Spare Probe	1		N/A	N/A	SAT/UNSAT	
~ 8 uCi Cs 137 Check Source	1			N/A	SAT/UNSAT	

MAIN CONTROL ROOM

DESCRIPTION: MAIN CONTROL ROOM EMERGENCY LOCKER					LOCATION: MAIN CONTROL ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Rad. Tape	1		N/A	N/A	SAT/UNSAT	
Masking Tape	2		N/A	N/A	SAT/UNSAT	
Step Off Pads	2		N/A	N/A	SAT/UNSAT	
Caution Signs	2		N/A	N/A	SAT/UNSAT	
Contaminated Area Insert	2		N/A	N/A	SAT/UNSAT	
High Rad. Area Insert	2		N/A	N/A	SAT/UNSAT	
Rad. Area Insert	2		N/A	N/A	SAT/UNSAT	
Barrier Rope (Feet).	~50		N/A	N/A	SAT/UNSAT	
Poly Bags (XL)	5		N/A	N/A	SAT/UNSAT	
Poly Bags (L)	25		N/A	N/A	SAT/UNSAT	
Poly Bags (S)	25		N/A	N/A	SAT/UNSAT	
Protective Clothing Sets (Includes hood, coveralls, shoe covers, rubbers, gloves, glove liners)	10		N/A	N/A	SAT/UNSAT	
Full Face Filter Respirator	1 Small		N/A	N/A	SAT/UNSAT	
	10 Medium				SAT/UNSAT	
	1 Large				SAT/UNSAT	

MAIN CONTROL ROOM

DESCRIPTION: MAIN CONTROL ROOM EMERGENCY LOCKER					LOCATION: MAIN CONTROL ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Flashlights with batteries	5		N/A	N/A	SAT/UNSAT	
Spare Batteries "D" Cell	24		N/A	N/A	SAT/UNSAT	
Lantern with Battery	2		N/A	N/A	SAT/UNSAT	
Spare Lantern Batteries	2		N/A	N/A	SAT/UNSAT	
Lamps with Batteries	4		N/A	N/A	SAT/UNSAT	
Spare Lantern Bulbs	2		N/A	N/A	SAT/UNSAT	
Air Sample Collector	2				SAT/UNSAT SAT/UNSAT	
SCBA	10		N/A	N/A	SAT/UNSAT	
SCBA Spare Bottles	30		N/A	N/A	SAT/UNSAT	
Batteries "9 V"	4		N/A	N/A	SAT/UNSAT	
KI Bottles	10		N/A		SAT/UNSAT	
INVENTORY CONDUCTED BY/KCN/DATE: _____						
OPERATIONAL CHECKS ON INSTRUMENTS/AIR SAMPLERS PERFORMED: YES ___ NO ___						

TECHNICAL SUPPORT CENTER

DESCRIPTION: TSC EMERGENCY LOCKER					LOCATION: TSC	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Low Range Ion Chamber Rate Meter B/G 0-5R/Hr RO2(A) or equivalent	2				SAT/UNSAT	
					SAT/UNSAT	
GM Frisker RM 14 (or equivalent) with probe	2				SAT/UNSAT	
					SAT/UNSAT	
Spare Probes	2		N/A	N/A	SAT/UNSAT	
TLD(S)	25		N/A	N/A	SAT/UNSAT	
Dosimeters 0-500 mR	40		N/A		SAT/UNSAT	
Dosimeters 0-1 R	20		N/A		SAT/UNSAT	
Dosimeter Chargers	2		N/A	N/A	SAT/UNSAT	
~ 8 uCi Cs 137 Check Source	1			N/A	SAT/UNSAT	
Silver Zeolite cartridges	10		N/A		SAT/UNSAT	
Smear Envelopes	1 Box		N/A	N/A	SAT/UNSAT	
Smears	1 Box		N/A	N/A	SAT/UNSAT	
Particulate Filters	2 Boxes		N/A	N/A	SAT/UNSAT	
Petri Dish	1 Box		N/A	N/A	SAT/UNSAT	

TECHNICAL SUPPORT CENTER

DESCRIPTION: TSC EMERGENCY LOCKER					LOCATION: TSC	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Spare Batteries "D" Cell	18		N/A	N/A	SAT/UNSAT	
Spare Batteries "9 V"	3		N/A	N/A	SAT/UNSAT	
Masking Tape	2		N/A	N/A	SAT/UNSAT	
Tweezers	1		N/A	N/A	SAT/UNSAT	
Screw Driver	1		N/A	N/A	SAT/UNSAT	
Calculator	1		N/A	N/A	SAT/UNSAT	
Rad. Tape	1 Roll		N/A	N/A	SAT/UNSAT	
Radioactive Material Tags	5		N/A	N/A	SAT/UNSAT	
EIP-2-103	1		N/A	N/A	SAT/UNSAT	
Surgical Gloves	~ 100		N/A	N/A	SAT/UNSAT	
Full Face Filter Respirator	1 Small 5 Medium 1 Large		N/A	N/A	SAT/UNSAT SAT/UNSAT SAT/UNSAT	
Step Off Pad	1		N/A	N/A	SAT/UNSAT	
Bag Stand	2		N/A	N/A	SAT/UNSAT	

TECHNICAL SUPPORT CENTER

DESCRIPTION: TSC EMERGENCY LOCKER					LOCATION: TSC	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Poly Bags (XL)	5		N/A	N/A	SAT/UNSAT	
Lamps without Batteries	10		N/A	N/A	SAT/UNSAT	
Lamp Batteries "D" Cell	80		N/A	N/A	SAT/UNSAT	
Protective Clothing Sets (Includes hood, coveralls, shoe covers, rubbers, gloves, glove liners)	8		N/A	N/A	SAT/UNSAT	
Sign "Frisk Prior to Entry"	1		N/A	N/A	SAT/UNSAT	
Sign "Frisk Prior to Exit"	1		N/A	N/A	SAT/UNSAT	
Extension Cord	1		N/A	N/A	SAT/UNSAT	
Barrier Rope	~ 100 Ft.		N/A	N/A	SAT/UNSAT	
Radiological Survey Data Sheets	25		N/A	N/A	SAT/UNSAT	
Airborne Rad. Activity Data Sheet	25		N/A	N/A	SAT/UNSAT	
Air Sample Collector	2				SAT/UNSAT	
					SAT/UNSAT	

TECHNICAL SUPPORT CENTER

DESCRIPTION: TSC EMERGENCY LOCKER					LOCATION: TSC	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
SCBA	5		N/A	N/A	SAT/UNSAT	
SCBA Spare Bottles	10		N/A	N/A	SAT/UNSAT	
CADAP Lap Top Computer with charger and battery	1		N/A	N/A	SAT/UNSAT	
KI Bottles	20		N/A		SAT/UNSAT	

INVENTORY CONDUCTED BY/KCN/DATE: _____

OPERATIONAL CHECKS ON INSTRUMENTS/AIR SAMPLERS PERFORMED: YES ___ NO ___

OPERATIONS SUPPORT CENTER

DESCRIPTION: OSC EMERGENCY LOCKER					LOCATION: OSC	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Protective Clothing Set (White paper)	50		N/A	N/A	SAT/UNSAT	
Full Face Filter Respirators	1 Small 10 Medium 1 Large		N/A	N/A	SAT/UNSAT SAT/UNSAT SAT/UNSAT	
Air Sample Collectors (RAP – 1)	2				SAT/UNSAT	
					SAT/UNSAT	
Air Sample Collectors (AC)	2				SAT/UNSAT	
					SAT/UNSAT	
Poly Bags (L)	25		N/A	N/A	SAT/UNSAT	
Poly Bags (S)	25		N/A	N/A	SAT/UNSAT	
Protective Clothing Sets (Includes hood, coveralls, shoe covers, rubbers, gloves, glove liners)	20		N/A	N/A	SAT/UNSAT	
Masking Tape	10 Rolls		N/A	N/A	SAT/UNSAT	
Rad. Tape	2		N/A	N/A	SAT/UNSAT	
Plastic Suit	10		N/A	N/A	SAT/UNSAT	
AOP-0031 ENCL. Kits	2		N/A	N/A	SAT/UNSAT	

OPERATIONS SUPPORT CENTER

DESCRIPTION: OSC EMERGENCY LOCKER					LOCATION: OSC	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Blanket	1		N/A	N/A	SAT/UNSAT	
First Aid Kit	1		N/A	N/A	SAT/UNSAT	
Bag Stand	1		N/A	N/A	SAT/UNSAT	
Small Acetylene Cut & Weld Rig with Spare Bottles	1		N/A	N/A	SAT/UNSAT	
Camera	2		N/A	N/A	SAT/UNSAT	
Packs of Film	5		N/A	N/A	SAT/UNSAT	
Toxic Gas Monitor	1		N/A	N/A	SAT/UNSAT	
Tool Belts	2		N/A	N/A	SAT/UNSAT	
Dosimeter 0-500 mR	40		N/A		SAT/UNSAT	
Dosimeter 0-1 R	20		N/A		SAT/UNSAT	
Dosimeter 0-10 R	10		N/A		SAT/UNSAT	
Dosimeter 0-100 R	10		N/A		SAT/UNSAT	
TLD(S)	30		N/A	N/A	SAT/UNSAT	
TLD Finger Rings	20		N/A	N/A	SAT/UNSAT	
Screw Driver	1		N/A	N/A	SAT/UNSAT	
Dosimeter Charger	2		N/A	N/A	SAT/UNSAT	
Spare Batteries "D" Cell	48		N/A	N/A	SAT/UNSAT	

OPERATIONS SUPPORT CENTER

DESCRIPTION: OSC EMERGENCY LOCKER					LOCATION: OSC	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Spare Batteries "C" Cell	8		N/A	N/A	SAT/UNSAT	
Spare Batteries "9 V"	18		N/A	N/A	SAT/UNSAT	
Flashlights without Batteries	10		N/A	N/A	SAT/UNSAT	
Contamination Smears	2 Boxes		N/A	N/A	SAT/UNSAT	
Smear Envelopes	2 Boxes		N/A	N/A	SAT/UNSAT	
Particulate Filters	2 Boxes		N/A	N/A	SAT/UNSAT	
Stick On Labels	1 Box		N/A	N/A	SAT/UNSAT	
Silver Zeolite Cartridges	10		N/A		SAT/UNSAT	
Sign Holders	10		N/A	N/A	SAT/UNSAT	
Contam. Area Insert	20		N/A	N/A	SAT/UNSAT	
Radiation Area Insert	20		N/A	N/A	SAT/UNSAT	
High Rad. Area Insert	20		N/A	N/A	SAT/UNSAT	
Rad. Material Insert	20		N/A	N/A	SAT/UNSAT	
Hot Spot Stickers	15		N/A	N/A	SAT/UNSAT	
Rad. Material Stickers	1 Roll		N/A	N/A	SAT/UNSAT	

OPERATIONS SUPPORT CENTER

DESCRIPTION: OSC EMERGENCY LOCKER					LOCATION: OSC	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Barrier Rope	~ 500 Ft.		N/A	N/A	SAT/UNSAT	
Air Sample Collector (DC)	2				SAT/UNSAT	
					SAT/UNSAT	
Lamps without Batteries	3		N/A	N/A	SAT/UNSAT	
Teletector 6112B Gamma .1-1000 R/Hr (or equivalent)	2				SAT/UNSAT	
					SAT/UNSAT	
Spare Frisker Probes	5		N/A	N/A	SAT/UNSAT	
Portable radio with Holster	6		N/A	N/A	SAT/UNSAT	
Radioactive Material Tags	~ 100		N/A	N/A	SAT/UNSAT	
Trash Can	3		N/A	N/A	SAT/UNSAT	
High Range Ion Rate Chamber Meter B/G 0-10,000 R/Hr (RO7) or equivalent	1				SAT/UNSAT	
G-M Frisker RM 14 (or equivalent) with probe	5				SAT/UNSAT	
					SAT/UNSAT	
					SAT/UNSAT	
					SAT/UNSAT	
					SAT/UNSAT	

OPERATIONS SUPPORT CENTER

DESCRIPTION: OSC EMERGENCY LOCKER					LOCATION: OSC	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
RM-21 Portable Rad Monitor (or equivalent) with Probe	1				SAT/UNSAT	
Spare Probe for RM-21 (HP270) or equivalent	2		N/A	N/A	SAT/UNSAT	
~ 8 uCi Cs 137 Check Source	1			N/A	SAT/UNSAT	
Low range Ion Chamber rate Meter B/G 0-5 R/Hr RO2(A) or equivalent	4				SAT/UNSAT	
					SAT/UNSAT	
					SAT/UNSAT	
					SAT/UNSAT	
Pass Cask Ramp	1		N/A	N/A	SAT/UNSAT	
Step Off Pads	20		N/A	N/A	SAT/UNSAT	
Ropes 225 Ft.	2		N/A	N/A	SAT/UNSAT	
Ropes 150 Ft.	2		N/A	N/A	SAT/UNSAT	
Ropes 100 Ft.	2		N/A	N/A	SAT/UNSAT	
Ropes 50 Ft.	2		N/A	N/A	SAT/UNSAT	
Extension Cords	4		N/A	N/A	SAT/UNSAT	
Multi-Receptacle	1		N/A	N/A	SAT/UNSAT	

OPERATIONS SUPPORT CENTER

DESCRIPTION: OSC EMERGENCY LOCKER					LOCATION: OSC	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Yellow Metal Stanchions	5		N/A	N/A	SAT/UNSAT	
Frisker Stands	2		N/A	N/A	SAT/UNSAT	
SCBA	10		N/A	N/A	SAT/UNSAT	
Tool Kit	2		N/A	N/A	SAT/UNSAT	
Dose Tracking Cards	20		N/A	N/A	SAT/UNSAT	
Hydraulic Jack	2		N/A	N/A	SAT/UNSAT	
Bolt Cutters	4		N/A	N/A	SAT/UNSAT	
Wrecking Bars	4		N/A	N/A	SAT/UNSAT	
Sledge Hammer	2		N/A	N/A	SAT/UNSAT	
SCBA Spare Air Bottles	10		N/A	N/A	SAT/UNSAT	
INVENTORY CONDUCTED BY/KCN/DATE: _____						
OPERATIONAL CHECKS ON INSTRUMENTS/AIR SAMPLERS PERFORMED: YES ___ NO ___						

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF EMERGENCY SUPPLIES					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Protective Clothing (White paper)	50		N/A	N/A	SAT/UNSAT	
Paper Towel	1 Roll		N/A	N/A	SAT/UNSAT	
Plastic Beaker 1 Liter	5		N/A	N/A	SAT/UNSAT	
Poly Bottle 1 Gallon	5		N/A	N/A	SAT/UNSAT	
KI Bottles	95		N/A		SAT/UNSAT	
Spare Probes	2		N/A	N/A	SAT/UNSAT	
Contamination Smears	1 Box		N/A	N/A	SAT/UNSAT	
Smear Envelopes	1 Box		N/A	N/A	SAT/UNSAT	
Particulate Filters	2 Boxes		N/A	N/A	SAT/UNSAT	
Petri Dish	1 Box		N/A	N/A	SAT/UNSAT	
Tweezers	1		N/A	N/A	SAT/UNSAT	
Silver Zeolite Cartridges	10		N/A		SAT/UNSAT	
Flashlight without Batteries	2		N/A	N/A	SAT/UNSAT	
Spare Batteries "D" Cell	6		N/A	N/A	SAT/UNSAT	
Batteries "9 V"	7		N/A	N/A	SAT/UNSAT	
Dosimeter 0-500 mR	40		N/A		SAT/UNSAT	
Dosimeter Charger	2		N/A	N/A	SAT/UNSAT	

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF EMERGENCY SUPPLIES					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Screw Driver	1		N/A	N/A	SAT/UNSAT	
TLD(S)	75		N/A	N/A	SAT/UNSAT	
Low Range Ion Chamber Rate Meter B/G 0-5 R/Hr RO2(A) or equivalent	align="center">2				SAT/UNSAT	
					SAT/UNSAT	
~ 8 uCi Cs137 Check Source	1			N/A	SAT/UNSAT	
Rad. Material Tags	25		N/A	N/A	SAT/UNSAT	
Masking Tape	1 Roll		N/A	N/A	SAT/UNSAT	
Radiation Tape	1 Roll		N/A	N/A	SAT/UNSAT	
Rad. Material Insert	5		N/A	N/A	SAT/UNSAT	
High Rad. Area Inserts	5		N/A	N/A	SAT/UNSAT	
Contam. Area Insert	5		N/A	N/A	SAT/UNSAT	
Rad. Area Insert	5		N/A	N/A	SAT/UNSAT	
EIP-2-103	1		N/A	N/A	SAT/UNSAT	
Rad. Survey Data Sheets	25		N/A	N/A	SAT/UNSAT	
Airborne Activity Data Sheets	25		N/A	N/A	SAT/UNSAT	

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF EMERGENCY SUPPLIES					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Air Sample Collector (RAP-1)	2				SAT/UNSAT SAT/UNSAT	
Sign Holders	8		N/A	N/A	SAT/UNSAT	
Air Sample Collector (DC)	2				SAT/UNSAT SAT/UNSAT	
G/M Frisker RM 14 (or equivalent) with Probe	2				SAT/UNSAT SAT/UNSAT	
Container for Radioactive Liquids (15 Gallon)	2		N/A	N/A	SAT/UNSAT	
Eye Wash Solution	2		N/A	N/A	SAT/UNSAT	
Poly Bags (L)	25		N/A	N/A	SAT/UNSAT	
Poly Bags (S)	25		N/A	N/A	SAT/UNSAT	
Step Off Pads	5		N/A	N/A	SAT/UNSAT	
Plastic Sheet	1 Roll		N/A	N/A	SAT/UNSAT	
Surgical Gloves	~500		N/A	N/A	SAT/UNSAT	
Barrier Rope	~100 Ft.		N/A	N/A	SAT/UNSAT	
Wash Cloths	10		N/A	N/A	SAT/UNSAT	
Towels	10		N/A	N/A	SAT/UNSAT	

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF EMERGENCY SUPPLIES					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Bag Stands	2		N/A	N/A	SAT/UNSAT	
Detergent	2		N/A	N/A	SAT/UNSAT	
Corn Meal	2		N/A	N/A	SAT/UNSAT	
Soap	2		N/A	N/A	SAT/UNSAT	
Shaving Creme	2		N/A	N/A	SAT/UNSAT	
Razors	5		N/A	N/A	SAT/UNSAT	
Full Face Filter Respirator	1 Small 1 Large		N/A	N/A	SAT/UNSAT SAT/UNSAT	
Extension Cord	1		N/A	N/A	SAT/UNSAT	
Water Pump	1		N/A	N/A	SAT/UNSAT	

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF OFFSITE EMERGENCY KIT #1					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Low Range IonChamber Rate Meter B/G 0-5R/Hr R02(A) or equivalent	2				SAT/UNSAT SAT/UNSAT	
G-M Frisker E140N (or equivalent) with Probe	1				SAT/UNSAT	
~8 uCi Cs137 Source	1			N/A	SAT/UNSAT	
Spare Frisker Probe	1		N/A	N/A	SAT/UNSAT	
Fuse for Air Sampler	1		N/A	N/A	SAT/UNSAT	
KI Bottles	1		N/A		SAT/UNSAT	
Rad. Survey Data Sheets	25		N/A	N/A	SAT/UNSAT	
Air Activity Data Sheets	25		N/A	N/A	SAT/UNSAT	
Road Map	1		N/A	N/A	SAT/UNSAT	
One Mile Site Map	1		N/A	N/A	SAT/UNSAT	
EPZ Grid Map	1		N/A	N/A	SAT/UNSAT	
EIP-2-014 A/S Forms	20		N/A	N/A	SAT/UNSAT	
EIP-2-012	1		N/A	N/A	SAT/UNSAT	
EIP-2-014	1		N/A	N/A	SAT/UNSAT	
ESP-8-028	1		N/A	N/A	SAT/UNSAT	
Air Sampler (DC)	1				SAT/UNSAT	
Poly Bags (L)	25		N/A	N/A	SAT/UNSAT	

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF OFFSITE EMERGENCY KIT #1					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Poly Bags (S)	25		N/A	N/A	SAT/UNSAT	
Plastic Container with Cap, 1 Liter	6		N/A	N/A	SAT/UNSAT	
Hand Trowel (Garden)	1		N/A	N/A	SAT/UNSAT	
Tape Measure	1		N/A	N/A	SAT/UNSAT	
Adhesive Labels	1 Pack		N/A	N/A	SAT/UNSAT	
Compass	1		N/A	N/A	SAT/UNSAT	
Screw Driver	1		N/A	N/A	SAT/UNSAT	
Pliers	1		N/A	N/A	SAT/UNSAT	
Quarters	\$5.00		N/A	N/A	SAT/UNSAT	
Pens	3		N/A	N/A	SAT/UNSAT	
Marker	1		N/A	N/A	SAT/UNSAT	
Stop Watch	1		N/A	N/A	SAT/UNSAT	
Tweezers	1		N/A	N/A	SAT/UNSAT	
Masking Tape	1 Roll		N/A	N/A	SAT/UNSAT	
Flashlight without Batteries	2		N/A	N/A	SAT/UNSAT	
Protective Clothing Set (White Paper)	2		N/A	N/A	SAT/UNSAT	
Surgical Gloves	~ 50		N/A	N/A	SAT/UNSAT	

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF OFFSITE EMERGENCY KIT #1					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Contamination Smears	1 Box		N/A	N/A	SAT/UNSAT	
Smear Envelopes	1 Box		N/A	N/A	SAT/UNSAT	
Silver Zeolite Cartridges	10		N/A		SAT/UNSAT	
Full Face Filter Respirator	2 Medium		N/A	N/A	SAT/UNSAT	
Batteries "D" Cell	6		N/A	N/A	SAT/UNSAT	
Batteries "9 V"	7		N/A	N/A	SAT/UNSAT	
Grass Shears	1		N/A	N/A	SAT/UNSAT	
Dosimeters 0-200 mR	2		N/A		SAT/UNSAT	
Dosimeters 0-500 mR	2		N/A		SAT/UNSAT	
Dosimeter 0-1500 mR	2		N/A		SAT/UNSAT	
Dosimeter Charger	1		N/A	N/A	SAT/UNSAT	
TLD(S)	2		N/A	N/A	SAT/UNSAT	
Particulate Filters	2 Boxes		N/A	N/A	SAT/UNSAT	
Scales	1		N/A	N/A	SAT/UNSAT	
Portable Calculator	1		N/A	N/A	SAT/UNSAT	
Yellow Rain Gear With Boots	2		N/A	N/A	SAT/UNSAT	
Portable Radio	2		N/A	N/A	SAT/UNSAT	
Portable Phone	1		N/A	N/A	SAT/UNSAT	

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF OFFSITE EMERGENCY KIT #2					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Low Range Ion Chamber Rate Meter B/G 0-5R/Hr RO2(A) or equivalent	2				SAT/UNSAT	
					SAT/UNSAT	
G-M Frisker E140N (or equivalent) with Probe	1				SAT/UNSAT	
~ 8 uCi Cs137 Source	1			N/A	SAT/UNSAT	
Spare Frisker Probe	1		N/A	N/A	SAT/UNSAT	
Fuse for Air Sampler	1		N/A	N/A	SAT/UNSAT	
KI Bottles	1		N/A		SAT/UNSAT	
Rad. Survey Data Sheets	25		N/A	N/A	SAT/UNSAT	
Air Activity Data Sheets	25		N/A	N/A	SAT/UNSAT	
Road Map	1		N/A	N/A	SAT/UNSAT	
One Mile Site Map	1		N/A	N/A	SAT/UNSAT	
EPZ Grid Map	1		N/A	N/A	SAT/UNSAT	
EIP-2-014 A/S Forms	20		N/A	N/A	SAT/UNSAT	
EIP-2-012	1		N/A	N/A	SAT/UNSAT	
EIP-2-014	1		N/A	N/A	SAT/UNSAT	
ESP-8-028	1		N/A	N/A	SAT/UNSAT	
Air Sampler (DC)	1				SAT/UNSAT	
Poly Bags (L)	25		N/A	N/A	SAT/UNSAT	

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF OFFSITE EMERGENCY KIT #2					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Poly Bags (S)	25		N/A	N/A	SAT/UNSAT	
Plastic Container with Cap, 1 Liter	6		N/A	N/A	SAT/UNSAT	
Hand Trowel (Garden)	1		N/A	N/A	SAT/UNSAT	
Tape Measure	1		N/A	N/A	SAT/UNSAT	
Adhesive Labels	1 Pack		N/A	N/A	SAT/UNSAT	
Compass	1		N/A	N/A	SAT/UNSAT	
Screw Driver	1		N/A	N/A	SAT/UNSAT	
Pliers	1		N/A	N/A	SAT/UNSAT	
Quarters	\$5.00		N/A	N/A	SAT/UNSAT	
Pens	3		N/A	N/A	SAT/UNSAT	
Marker	1		N/A	N/A	SAT/UNSAT	
Stop Watch	1		N/A	N/A	SAT/UNSAT	
Tweezers	1		N/A	N/A	SAT/UNSAT	
Masking Tape	1 Roll		N/A	N/A	SAT/UNSAT	
Flashlight without Batteries	2		N/A	N/A	SAT/UNSAT	
Protective Clothing Set (White Paper)	2		N/A	N/A	SAT/UNSAT	
Surgical Gloves	~ 50		N/A	N/A	SAT/UNSAT	

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF OFFSITE EMERGENCY KIT #2					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Contamination Smears	1 Box		N/A	N/A	SAT/UNSAT	
Smear Envelopes	1 Box		N/A	N/A	SAT/UNSAT	
Silver Zeolite Cartridges	10		N/A		SAT/UNSAT	
Full Face Filter Respirator	2 Medium		N/A	N/A	SAT/UNSAT	
Batteries "D" Cell	6		N/A	N/A	SAT/UNSAT	
Batteries "9 V"	7		N/A	N/A	SAT/UNSAT	
Grass Shears	1		N/A	N/A	SAT/UNSAT	
Dosimeters 0-200 mR	2		N/A		SAT/UNSAT	
Dosimeters 0-500 mR	2		N/A		SAT/UNSAT	
Dosimeter 0-1500 mR	2		N/A		SAT/UNSAT	
Dosimeter Charger	1		N/A	N/A	SAT/UNSAT	
TLD(S)	2		N/A	N/A	SAT/UNSAT	
Particulate Filters	2 Boxes		N/A	N/A	SAT/UNSAT	
Scales	1		N/A	N/A	SAT/UNSAT	
Portable Calculator	1		N/A	N/A	SAT/UNSAT	

EMERGENCY OPERATIONS FACILITY

DESCRIPTION: EOF OFFSITE EMERGENCY KIT #2					LOCATION: EMERGENCY EQUIPMENT STORAGE ROOM	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Yellow Rain Gear With Boots	2		N/A	N/A	SAT/UNSAT	
Portable Radio	2		N/A	N/A	SAT/UNSAT	
Portable Phone	1		N/A	N/A	SAT/UNSAT	
INVENTORY CONDUCTED BY/KCN/DATE: _____						
OPERATIONAL CHECKS ON INSTRUMENTS/AIR SAMPLERS PERFORMED: YES ___ NO ___						

DECONTAMINATION ROOM

DESCRIPTION: DECONTAMINATION ROOM					LOCATION: 2 ND FLOOR SERVICES BUILDING	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
G/M Frisker RM 14 (or equivalent) with Probe	1				SAT/UNSAT	
Treatment Table	1		N/A	N/A	SAT/UNSAT	
Contam. Material Sign	2		N/A	N/A	SAT/UNSAT	
Poly Bags (L)	25		N/A	N/A	SAT/UNSAT	
Poly Bags (S)	25		N/A	N/A	SAT/UNSAT	
Poly Bottle 1 Gallon	5		N/A	N/A	SAT/UNSAT	
Plastic Beakers 1 Liter	5		N/A	N/A	SAT/UNSAT	
Surgical Gloves	~ 500		N/A	N/A	SAT/UNSAT	
KI Bottles	70		N/A	N/A	SAT/UNSAT	
Paper Towels	1 Roll		N/A	N/A	SAT/UNSAT	
Log Book	1		N/A	N/A	SAT/UNSAT	
Hand Soap	1 Gallon		N/A	N/A	SAT/UNSAT	
Detergent	1 Gallon		N/A	N/A	SAT/UNSAT	
Wash Cloths	10		N/A	N/A	SAT/UNSAT	

DECONTAMINATION ROOM

DESCRIPTION: DECONTAMINATION ROOM					LOCATION: 2ND FLOOR SERVICES BUILDING	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Cotton Towels	10		N/A	N/A	SAT/UNSAT	
Shaving Cream	2		N/A	N/A	SAT/UNSAT	
Disposable Safety Razor	2		N/A	N/A	SAT/UNSAT	
INVENTORY CONDUCTED BY/KCN/DATE: _____						
OPERATIONAL CHECKS ON INSTRUMENTS PERFORMED: YES ___ NO ___						

AMBULANCE/OFFSITE FIRE DEPARTMENT KITS

DESCRIPTION: AMBULANCE KIT					LOCATION: PRIMARY ACCESS POINT (PAP)	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Protective Clothing Sets (Includes hood, gloves, coveralls, shoe covers, rubbers, glove liners)	4		N/A	N/A	SAT/UNSAT	
Dosimeter 0-200 mR	4		N/A		SAT/UNSAT	
Dosimeter Charger	1		N/A	N/A	SAT/UNSAT	
TLD(S)	4		N/A	N/A	SAT/UNSAT	
Clipboard	1		N/A	N/A	SAT/UNSAT	
Note Pad	6		N/A	N/A	SAT/UNSAT	
Pens	2		N/A	N/A	SAT/UNSAT	
Surgical Gloves	~ 100		N/A	N/A	SAT/UNSAT	
Masking Tape	2 Rolls		N/A	N/A	SAT/UNSAT	
Rad. Tape	1 Roll		N/A	N/A	SAT/UNSAT	
Herculite for Amb. Floor	Lot		N/A	N/A	SAT/UNSAT	

DESCRIPTION: OFFSITE FIRE DEPARTMENT KIT					LOCATION: PRIMARY ACCESS POINT (PAP)	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Dosimeter 0-200 mR	20		N/A		SAT/UNSAT	
TLD(s)	20		N/A	N/A	SAT/UNSAT	

INVENTORY CONDUCTED BY/KCN/DATE: _____

ACTIVITY CENTER

DESCRIPTION: DECONTAMINATION SUPPLIES					LOCATION: ACTIVITY CENTER	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
G/M Frisker RM 14 (or equivalent) with Probe	1				SAT/UNSAT	
Poly Bags (L)	25		N/A	N/A	SAT/UNSAT	
Poly bags (S)	25		N/A	N/A	SAT/UNSAT	
Container for Rad. Liquids 15 Gallon	2		N/A	N/A	SAT/UNSAT	
Container for Rad. Trash Material	1		N/A	N/A	SAT/UNSAT	
Plastic Sheet	1 Roll		N/A	N/A	SAT/UNSAT	
Step Off Pads	2		N/A	N/A	SAT/UNSAT	
Poly Beakers 1 Liter	10		N/A	N/A	SAT/UNSAT	
Surgical Gloves	~ 100		N/A	N/A	SAT/UNSAT	
Cotton Towels	12		N/A	N/A	SAT/UNSAT	
Eye Wash Solution	2		N/A	N/A	SAT/UNSAT	
Protective Clothing Set (White Paper)	50		N/A	N/A	SAT/UNSAT	
Contamination Smears	1 Box		N/A	N/A	SAT/UNSAT	
Smear Envelopes	1 Box		N/A	N/A	SAT/UNSAT	

ACTIVITY CENTER

DESCRIPTION: DECONTAMINATION SUPPLIES					LOCATION: ACTIVITY CENTER	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Flashlights without Batteries	2		N/A	N/A	SAT/UNSAT	
Batteries "D" Cell	4		N/A	N/A	SAT/UNSAT	
Masking Tape	1 Roll		N/A	N/A	SAT/UNSAT	
Log Books	2		N/A	N/A	SAT/UNSAT	
Clipboard	3		N/A	N/A	SAT/UNSAT	
Note Pad	3		N/A	N/A	SAT/UNSAT	
Pens	6		N/A	N/A	SAT/UNSAT	
EIP-2-103	1		N/A	N/A	SAT/UNSAT	
RP-104	1		N/A	N/A	SAT/UNSAT	
Sign Holders	6		N/A	N/A	SAT/UNSAT	
Rad. Area Insert	10		N/A	N/A	SAT/UNSAT	
Contam. Area Insert	10		N/A	N/A	SAT/UNSAT	
Rad. Material Insert	10		N/A	N/A	SAT/UNSAT	
Paper Towel	1 Roll		N/A	N/A	SAT/UNSAT	

ACTIVITY CENTER

DESCRIPTION: DECONTAMINATION SUPPLIES					LOCATION: ACTIVITY CENTER	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Soap Bar	2		N/A	N/A	SAT/UNSAT	
Shaving Cream	2		N/A	N/A	SAT/UNSAT	
Safety Razor	5		N/A	N/A	SAT/UNSAT	
Cotton Balls	2 Boxes		N/A	N/A	SAT/UNSAT	
Q Tips	2 Boxes		N/A	N/A	SAT/UNSAT	
Corn Meal	2		N/A	N/A	SAT/UNSAT	
Detergent	2		N/A	N/A	SAT/UNSAT	
INVENTORY CONDUCTED BY/KCN/DATE: _____						
OPERATIONAL CHECKS ON INSTRUMENTS PERFORMED: YES ___ NO ___						

WEST FELICIANA PARISH HOSPITAL

DESCRIPTION: EMERGENCY EQUIPMENT					LOCATION: WEST FELICIANA PARISH HOSPITAL	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
G/M Frisker RM 14 (or equivalent) with Probe	2				SAT/UNSAT	
					SAT/UNSAT	
G/M Low Range Meter 0-2000 mR/Hr	1				SAT/UNSAT	
Hose with Low Pressure Shower head, Pre-rinse with Spray Head and Hose Adapter	1		N/A	N/A	SAT/UNSAT	
Decon Table Top, with Splash Guard, Stretcher Insert	1		N/A	N/A	SAT/UNSAT	
Poly Water Container (15 Gallon)	2		N/A	N/A	SAT/UNSAT	
Contam. Waste Container with base (35 Gallon)	2		N/A	N/A	SAT/UNSAT	
Stanchions Metal/Plastic	6		N/A	N/A	SAT/UNSAT	
Metal Storage Cabinet (Locked)	1		N/A	N/A	SAT/UNSAT	
EIP-2-103	1		N/A	N/A	SAT/UNSAT	
Step Off Pad	1		N/A	N/A	SAT/UNSAT	
Accident poster	2		N/A	N/A	SAT/UNSAT	

WEST FELICIANA PARISH HOSPITAL

DESCRIPTION: EMERGENCY EQUIPMENT					LOCATION: WEST FELICIANA PARISH HOSPITAL	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Herculite cut to fit REA	Lot		N/A	N/A	SAT/UNSAT	
Plastic Trash Can Liners	10		N/A	N/A	SAT/UNSAT	
Plastic trash bags	6		N/A	N/A	SAT/UNSAT	
Rad. Warning Rope and Sign	Lot		N/A	N/A	SAT/UNSAT	
Sign Inserts 3 per Sign	15		N/A	N/A	SAT/UNSAT	
Rad. Warning Sign Holder	10		N/A	N/A	SAT/UNSAT	
Rad. Material Tags	50		N/A	N/A	SAT/UNSAT	
Lead Container	1		N/A	N/A	SAT/UNSAT	
Sample Taking and Decon Cart (Locked)	1		N/A	N/A	SAT/UNSAT	
Surgical Gloves	1 Box		N/A	N/A	SAT/UNSAT	
Dosimetry and Dress Out Cart (Locked)	1		N/A	N/A	SAT/UNSAT	
Protective Clothing Packs (Sealed)	20		N/A	N/A	SAT/UNSAT	
~ 8 uCi Cs 137 Check Source	1			N/A	SAT/UNSAT	
TLD Finger Rings	8		N/A	N/A	SAT/UNSAT	
Dosimeters 0-200 mR	10		N/A		SAT/UNSAT	
TLD(S)	10		N/A	N/A	SAT/UNSAT	

WEST FELICIANA PARISH HOSPITAL

DESCRIPTION: EMERGENCY EQUIPMENT					LOCATION: WEST FELICIANA PARISH HOSPITAL	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Dosimeter Charger	1		N/A	N/A	SAT/UNSAT	
Batteries "D" Cell	6		N/A	N/A	SAT/UNSAT	
Masking Tape 2 inch	9 Rolls		N/A	N/A	SAT/UNSAT	
Anatomical Diagram	10 Sheets		N/A	N/A	SAT/UNSAT	
Personnel Dosimetry Log	10 Sheets		N/A	N/A	SAT/UNSAT	
Record Keeping Chart – Clipboard	1		N/A	N/A	SAT/UNSAT	
RMC Procedure Manual	1		N/A	N/A	SAT/UNSAT	
INVENTORY CONDUCTED BY/KCN/DATE: _____						
OPERATIONAL CHECKS ON INSTRUMENTS PERFORMED: YES ____ NO ____						

OUR LADY OF THE LAKE REGIONAL MEDICAL CENTER

DESCRIPTION: EMERGENCY EQUIPMENT					LOCATION: OUR LADY OF THE LAKE REGIONAL MEDICAL CENTER	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
G/M Frisker RM 14 (or equivalent) with Probe	2				SAT/UNSAT	
					SAT/UNSAT	
G/M Low Range Meter 0-2000 mR/Hr	1				SAT/UNSAT	
Hose with Low Pressure Shower Head, Pre-rinse with Spray Head and Hose Adapter	1		N/A	N/A	SAT/UNSAT	
Decon Table Top with Splash Guard, Stretcher Insert	1		N/A	N/A	SAT/UNSAT	
Poly Water Container (15 Gallon)	2		N/A	N/A	SAT/UNSAT	
Contam. Waste Container with Base (35 Gallon)	2		N/A	N/A	SAT/UNSAT	
Step Off Pad	1		N/A	N/A	SAT/UNSAT	
EIP-2-103	1		N/A	N/A	SAT/UNSAT	
Accident Poster	2		N/A	N/A	SAT/UNSAT	
Stanchions Metal/Plastic	4		N/A	N/A	SAT/UNSAT	
Herculite Cut to fit REA	Lot		N/A	N/A	SAT/UNSAT	

OUR LADY OF THE LAKE REGIONAL MEDICAL CENTER

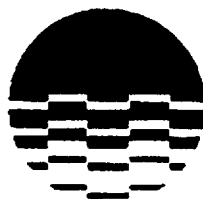
DESCRIPTION: EMERGENCY EQUIPMENT					LOCATION: OUR LADY OF THE LAKE REGIONAL MEDICAL CENTER	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Plastic Trash Can Liners	10		N/A	N/A	SAT/UNSAT	
Plastic Trash Bags	6		N/A	N/A	SAT/UNSAT	
Lead Container	1		N/A	N/A	SAT/UNSAT	
Rad. Warning Rope and Sign	Lot		N/A	N/A	SAT/UNSAT	
Sign Holder	5		N/A	N/A	SAT/UNSAT	
Sign Inserts 3 Per Sign	15		N/A	N/A	SAT/UNSAT	
Rad. Material Tags	50		N/A	N/A	SAT/UNSAT	
Sample Taking and Decon. Cart (Locked)	1		N/A	N/A	SAT/UNSAT	
Dosimetry and Dress Out Cart (Locked)	1		N/A	N/A	SAT/UNSAT	
Surgical Gloves	1 Box		N/A	N/A	SAT/UNSAT	
Batteries "D" Cell	6		N/A	N/A	SAT/UNSAT	
Masking Tape 2 inch	9 Rolls		N/A	N/A	SAT/UNSAT	
Anatomical Diagram	10 Sheets		N/A	N/A	SAT/UNSAT	

OUR LADY OF THE LAKE REGIONAL MEDICAL CENTER

DESCRIPTION: EMERGENCY EQUIPMENT					LOCATION: OUR LADY OF THE LAKE REGIONAL MEDICAL CENTER	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
Personnel Dosimetry Log	10 Sheets		N/A	N/A	SAT/UNSAT	
Record Keeping Chart - Clipboard	1		N/A	N/A	SAT/UNSAT	
RMC Procedure Manual	1		N/A	N/A	SAT/UNSAT	
Yellow Floor Wipes	Lot		N/A	N/A	SAT/UNSAT	
~ 8 uCi Cs 137 Check Source	1			N/A	SAT/UNSAT	
TLD Finger Rings	8		N/A	N/A	SAT/UNSAT	
Dosimeters 0-200 mR	10		N/A		SAT/UNSAT	
TLD(S)	10		N/A	N/A	SAT/UNSAT	
Dosimeter Charger	1		N/A	N/A	SAT/UNSAT	
Protective Clothing Packs (Sealed)	20		N/A	N/A	SAT/UNSAT	
INVENTORY CONDUCTED BY/KCN/DATE: _____						
OPERATIONAL CHECKS ON INSTRUMENTS PERFORMED: YES ___ NO ___						

REMOTE SHUTDOWN PANEL

DESCRIPTION: REMOTE SHUTDOWN LOCKER					LOCATION: REMOTE SHUTDOWN PANEL	
ITEM DESCRIPTION	MINIMUM REQUIRED	ACTUAL QTY.	SERIAL NUMBER	EXPIRATION DATE	CONDITION SAT/UNSAT	COMMENTS
SCBA with Bottles	2		N/A	N/A	SAT/UNSAT	
Flashlights Lantern Type	4		N/A	N/A	SAT/UNSAT	
Spare Lantern Batteries	4		N/A	N/A	SAT/UNSAT	
Clipboards	3		N/A	N/A	SAT/UNSAT	
Note Pads	3		N/A	N/A	SAT/UNSAT	
Pens (Black)	6		N/A	N/A	SAT/UNSAT	
INVENTORY CONDUCTED BY/KCN/DATE: _____						



ENTERGY

**RIVER BEND STATION
STATION SUPPORT MANUAL
*EMERGENCY IMPLEMENTING PROCEDURE**

****OFFSITE DOSE CALCULATIONS***

PROCEDURE NUMBER:	*EIP-2-024
REVISION NUMBER:	*19
Effective Date:	* <u>JUN 07 2002</u>

NOTE : SIGNATURES ARE ON FILE.

***INDEXING INFORMATION**

REFERENCE USE

RECEIVED

JUN 07 2002

Drawing Control Center

TABLE OF CHANGES

LETTER DESIGNATION TRACKING NUMBER	DETAILED DESCRIPTION OF CHANGES

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1 **PURPOSE**

- 1.1 This procedure provides guidance on the methodology for using the Computer Aided Dose Assessment Program (CADAP) software program to predict offsite radiation dose resulting from an actual or potential release of radioactive materials from the plant.
- 1.2 This procedure only provides guidance on using the software to perform offsite dose projections. When offsite dose projection calculations are used to make an emergency classification or Protective Action Recommendation the actual, best known or anticipated variables and conditions will be used in the calculation. Users can perform calculations using other than actual variables and conditions such as anticipating changes or evaluating different conditions or scenarios.

2 **REFERENCES**

- 2.1 RPP-0034, Operation of the General Atomic Digital Radiation Monitoring System CRT
- 2.2 RSP-0008, Offsite Dose Calculation Manual (ODCM)

3 **DEFINITIONS**

- 3.1 Deposition Calculation – Projected whole body external gamma doses at particular locations within the 50 mile EPZ during the first and second years and over the 50 year period after the incident. This information is useful in the recovery phase after an accident.
- 3.2 Projected Dose - The calculated dose that would be received by individuals in the offsite environment if no protective actions were taken following a release of radioactive materials.

4 **RESPONSIBILITIES**

- 4.1 The onshift Chemistry Technician is responsible for dose projections in the Control Room prior to activation of the TSC.

- 4.2 The Chemistry Core Damage Assessment Coordinator should perform dose projection calculations in the TSC, as necessary, until the EOF is operational.
- 4.3 The Assistant Radiological Assessment Coordinator (ARAC) is responsible for dose projections following activation of the EOF.
- 4.4 The Radiological Assessment Coordinator (RAC) is responsible for reviewing dose projections.
- 4.5 The Radiation Protection Advisor (RPA) or the Radiation Protection Coordinator (RPC), if the EOF is not operational, is responsible for reviewing dose projections and field team data, for completing applicable sections of the Notification Message Form, and providing this information to the Recovery Manager.

5 GENERAL

- 5.1 The minimum information required to use this procedure and the sources of that information are:

CAUTION

The Meteorological Tower remains on Central Standard Time (CST) throughout the year.

- 5.1.1. Wind direction, wind speed, and Delta T are available from the RM-21 (located in the TSC and EOF) and the AMI-80 (located in the Control Room, Environmental Services Office Building and the Meteorological Tower).
- 5.1.2. An estimate of the core state - no damage, clad damage or fuel melt (Based on Attachment 6).
- 5.1.3. An indication of the quantity of radioactivity being released. This can be a release rate (DRMS), activity in containment (Control Room or DRMS), Field Monitoring Team instrument readings (from field team) or an effluent sample (Chemistry).

- 5.2 Integrated doses calculated by CADAP use the isotopic dose factors from EPA-400-R-92-001 and include a four-day direct dose and resuspension dose factor for deposited radionuclides using the EPA methodology. Dose rates displayed for TEDE and Thyroid CDE are based on a one-hour inhalation period at the standard breathing rate postulated by 10CFR20.1003. **No considerations are included for particle sizes, variable settling velocities, virtual stack heights, variable breathing rates, sex specific variables or chemical mitigation factors.**
- 5.3 Information retrieval for CADAP may be from one of three sources: live plant data, Simulator data, or all manual data entered by the user. Using any one of the three modes of CADAP will provide the same result if the same data is entered for each calculation.
- 5.4 CADAP is connected to a network server (PI-Server) for live plant data and meteorological information, thus requiring little input from the user. Effluent monitor data, PAM monitor data, meteorological data, core state, source term reduction factors, and time after shutdown are entered from the network server. The simulator mode of CADAP receives data from a simulator network server when running. The user can always override the computer inputs should he/she have better information.
- 5.5 CADAP uses self-explanatory forms for the user to complete to perform calculations. Further explanation and guidance to complete the form fields used for offsite dose projection are provided in Attachment 1.
- 5.6 CADAP users can perform calculations using variables and conditions that are not consistent with actual conditions. This is performed to anticipate possible conditions and to compare different dose projection scenarios.

PROCEDURE**NOTE**

The actions of this procedure may be completed in any sequence. When offsite dose projection calculations are used to make an emergency classification or Protective Action Recommendation the actual, best known or anticipated variables and conditions will be used in the calculation.

- 6.1 The onshift Chemistry Technician, the Chemistry Core Damage Assessment Coordinator in the TSC or the ARAC should perform the following steps when directed by the Recovery Manager/Emergency Director to initiate offsite dose assessment:
- 6.1.1. Start up CADAP computer, if not running.
 - 6.1.2. Turn on printer, if attached and needed.
 - 6.1.3. Open Excel file "CADAP.xls" when using plant inputs, if not opened. This program autoexecutes when Windows starts.

NOTE

If an error message appears stating "Unable to connect to DDE data link", the network is not providing the required information to the program. In this case the program should be ran using the DDE data link choice "None."

- 6.1.4. Launch CADAP program and select the appropriate source for input:
 - 1. Plant – real time data from the plant.
 - 2. Simulator –to run drill scenarios from the simulator.
 - 3. None (default setting) – a stand-alone mode with no data inputs. The user has to enter all values.
- 6.1.5. Select the desired menu:
 - 1. Projections – selected for dose projections when effluent data is available from plant instrumentation, PI-Server, DRMS, plant chemistry sample, or field monitoring team data. Go to section 6.2.

2. Contingencies – selected to do “what if” calculations for containment venting, containment failure or fuel handling accident. For example: “What would be the offsite dose consequences if containment failed?” Go to section 6.6.
3. Overhead – displays a site map and will show the release rates at each of the three monitored release points. Go to section 6.7.
4. Values – displays plant data retrieved by the network server (Plant or Simulator) and updated every five seconds to allow the user to directly monitor plant parameters. Go to section 6.8.
5. Deposition – provides capability to project whole body external gamma doses at particular locations within the 50-mile EPZ during the first and second years and over the 50-year period after the incident. This information is useful for the recovery phase. Go to section 6.9.
6. Utilities - Go to section 6.10
7. Help

NOTE

Use the mouse or TAB key to move among input fields on the screen. Use of the ENTER key may cause the calculation to be performed before all data is verified or entered.

- 6.2 Projections - Select appropriate menu item.

NOTE

If the release point effluent monitors are not functional or release is unmonitored, go to section 6.4 if sample data is available or to section 6.5 if field monitoring team data is available. Non-functional monitors may be indicated by no data appearing in the data boxes or by data value of zero.

NOTE

The "Abort Dose Calculations" button can be used to abort any calculation.

- 6.3 Select "Monitors" if the calculation is based on plant effluent data.

- 6.3.1. Select "Yes" or "No" as applicable to the questions in the message box:
1. Has Drywell or Containment H₂ been above 1%? A Yes selection will select the Fuel Melt core state for all dose projection calculations. This question will not always appear prior to each subsequent calculation.
 2. Do you wish to keep the current settings? A Yes selection will keep the previous source term reduction factors and No will use default settings.
- 6.3.2. Select appropriate monitor(s). If releases are occurring from more than one release point, select all the appropriate monitors.
- 6.3.3. Verify or enter meteorological data, as applicable. Attachment 1 provides additional guidance.
- 6.3.4. The default Release Duration is 2 hours. If better information is available, enter the revised release duration in hours.
- 6.3.5. Verify or select the appropriate Core State.
1. Attachment 6 provides guidance on determining core state. Additional information for determining core state may be obtained from other ERO positions.

NOTE

Every effort should be made to determine accurate information for the Source Term Reduction values since significant over conservatism from use of the default values could result in the unnecessary evacuation of the 10-mile EPZ.

CAUTION

A filter train may be operating and the release may not be filtered, i.e. release through the steam tunnel or the filter train is damaged. Verify the release path and then determine if it is a filtered release.

- 6.3.6. Verify or select the appropriate Source Term Reduction factors. Attachment 1 provides additional guidance.
- 6.3.7. Verify or enter the Time After Shutdown value in hours.

- 6.3.8. Perform dose calculation (Attachment 3).
- 6.3.9. If desired, print the dose projection sheet. Normally 2 copies are printed to provide a copy to the Operations Shift Manager (OSM), Radiation Protection Coordinator (RPC) or Radiological Assessment Coordinator (RAC) as appropriate.
- 6.3.10. If desired, click on the "ESP" button to save the data for use in ESP_COMM message.
 - 1. A file containing the calculated values will be written to the "C" drive that is available for direct access by the ESP computer to be used on the notification message form (NMF). This file, "dose", also contains a calculation of the noble gas and iodine release rates for inclusion on the NMF. This file may be viewed using any text editor (i.e., Notepad or Word) (See Attachment 2).
 - 2. Select Yes to overwrite existing file, if appropriate.
- 6.4 Select "Sample" to calculate offsite doses when a chemistry sample isotopic analysis of the stack effluent is available.
 - 6.4.1. Enter the vent flow rate in cubic feet per minute (cfm).
 - 6.4.2. Verify or enter the Time after Shutdown in hours.
 - 6.4.3. Verify or enter the meteorological data as applicable. Attachment 1 provides additional guidance.
 - 6.4.4. The default Release Duration is 2 hours. If better information is available, enter the revised release duration in hours
 - 6.4.5. Enter the concentration in $\mu\text{Ci/cc}$ for each known nuclide. Use the Tab key or mouse to move between fields.
 - 6.4.6. Perform dose calculation (Attachment 3).
 - 6.4.7. If desired, print the dose projection sheet. Normally 2 copies are printed to provide a copy to the OSM, RPC or RAC as appropriate.
 - 6.4.8. If desired, click on the "ESP" button to save the data for use in ESP_COMM message.

- 6.5 Select "FMT" to calculate doses using field monitoring team data.

CAUTION

Field monitoring teams are rarely able to find the plume centerline doses with accuracy. This option should not be used if other options are available (monitors or sample analysis).

- 6.5.1. Enter gamma (closed window) dose rate value in mR/hr.
- 6.5.2. Enter downwind distance value in miles where the dose rate was obtained.
- 6.5.3. Verify or enter meteorological data as applicable. Attachment 1 provides additional guidance.
- 6.5.4. The default Release Duration is 2 hours. If better information is available, enter the revised release duration in hours.
- 6.5.5. Verify or select the appropriate Core State. Attachment 6 provides additional guidance.
- 6.5.6. Select the appropriate Source Term Reduction factors. Attachment 1 provides additional guidance.

CAUTION

A filter train may be operating and the release may not be filtered, i.e. release through the steam tunnel or the filter train is damaged. Verify the release path and then determine if it is a filtered release.

- 6.5.7. Verify or enter the Time After Shutdown value in hours.
- 6.5.8. Perform dose calculation (Attachment 3).
- 6.5.9. If desired, print the dose projection sheet. Normally 2 copies are printed to provide a copy to the OSM, RPC or RAC as appropriate.
- 6.5.10. If desired, click the "ESP" button to save the data for use in ESP_COMM message.

- 6.6 Contingencies may be used in the absence of effluent radiation monitoring system or post accident sample data or to perform "what if" projections to speculate about possible future conditions. It is only a mathematical calculation based upon a conservative model of River Bend plant accident conditions.

6.6.1. Select Contingencies:

1. Containment Venting - This option should be used when the Containment is intentionally depressurized through the Standby Gas Treatment System or for what if calculations prior to actually venting Containment.
2. Containment Loss – This option is used when there is an accident that causes an unisolated, unmonitored release from Containment, such as a penetration failure to atmosphere.
3. Fuel Handling - This option is used for an accident involving a dropped fuel bundle either in Containment or in the Fuel Building.

6.6.2. Containment Venting Contingency - Select Containment Venting.

1. Select Yes or No as applicable to the question "Has Drywell or Containment H₂ been above 1%?"
2. Verify or enter the Containment PAM reading in R/hr.
3. Verify or enter meteorological data as applicable. Attachment 1 provides additional guidance.
4. Enter the Release Duration (duration of venting). The default value of 2 hours should **NOT** be used.
5. Verify or select the appropriate Core State. Attachment 6 provides guidance on determining core state.
6. Verify or select the appropriate Source Term Reduction factors. Attachment 1 provides additional guidance.
7. Verify or enter the Time After Shutdown in hours.
8. Perform dose calculation (Attachment 3).

9. If desired, print the dose projection sheet. Normally 2 copies are printed to provide a copy to the OSM, RPC or RAC as appropriate.

NOTE

If performing "what if" calculations prior to actually venting Containment, skip the next step 10.

10. If desired, click on the "ESP" button to save the data for use in ESP_COMM message.

6.6.3. Containment Loss Contingency – Select Containment Loss.

1. Select Yes or No as applicable to the question "Has Drywell or Containment H₂ been above 1%?"
2. Verify or enter the Containment PAM reading in R/hr.
3. Verify or enter meteorological data as applicable. Attachment 1 provides additional guidance.
4. Verify or enter Release Duration. PRA data indicates for the most probable containment failure mode, the containment will depressurize from 33 psig to 0 psig in about 7 hours. If better data is available, enter the expected release duration.
5. Verify or select the appropriate Core State. Attachment 6 provides guidance on determining core state.
6. Verify or select the appropriate Source Term Reduction factors. Attachment 1 provides additional guidance.
7. Verify or enter the Time After Shutdown in hours.
8. Perform dose calculation (Attachment 3).
9. If desired, print the dose projection sheet. Normally 2 copies are printed to provide a copy to the OSM, RPC or RAC as appropriate.

NOTE

If performing "what if" calculations, skip the next step 10.

10. If desired, select the "ESP" button to save the data for use in ESP_COMM message.

6.6.4. Fuel Handling – Select Fuel Handling.

1. Select the location of the fuel handling accident.

NOTE

If the accident involves fuel from the spent fuel pool that was removed from the reactor in a previous refueling, obtain the "Time Since Bundle Last at Power" from Reactor Engineering.

2. Enter the number of days since reactor shutdown in the Time Since Bundle Last at Power field.
3. Verify or enter meteorological data as applicable. Attachment 1 provides additional guidance.
4. Select the appropriate filtration status, if any. Additional guidance is provided in Attachment 1.
5. Perform dose calculation (Attachment 3).
6. If desired, print the dose projection sheet. Normally 2 copies are printed to provide a copy to the OSM, RPC or RAC as appropriate.

NOTE

If performing "what if" calculations, skip the next step 7.

7. If desired, click on the "ESP" button to save the data for use in ESP_COMM message.

- 6.7 Overhead – This selection has a site map that will show the release rates at each of the three monitored release points. The release rates are automatically updated every five seconds. This function only works when data is being provided from the network server.

- 6.7.1. If desired, print the output sheet. Normally 2 copies are printed to provide a copy to the OSM, RPC or RAC as appropriate.
- 6.8 Values – This displays live plant parameter data and allows direct monitoring by the user. The values are automatically updated every five seconds. This function only works when data is being provided from the network server.
 - 6.8.1. If desired, print the output sheet. Normally 2 copies are printed to provide a copy to the OSM, RPC or RAC as appropriate.
- 6.9 Deposition – This selection displays a sub-menu that allows two options:
 - 6.9.1. Sample – Enter deposition exposure values from the environmental sample data in the Desposition Exposure Calculation.
 - 1. Enter the isotopic values from the environmental sample for the applicable isotopes.
 - 2. Enter Time After Shutdown in hours.
 - 3. Enter the location in miles from plant where the sample was taken.
 - 4. Select “Yes” or “No” as applicable to add the sample to the average. If Yes is chosen, CADAP stores this data in the average file and uses this spectrum to calculate the dose rate based on first year, second year, and fifty year doses. If the average spectrum is available, CADAP uses that data to calculate the doses.
 - 5. Perform dose calculation to display whole body gamma dose in mRem for the first year, second year, and fifty years.
 - 6.9.2. Dose Rate – Similar to the Sample Desposition Calculation but assumes no actual sample data and uses a default spectrum.
 - 1. Position the mouse pointer over the location on the 50-mile Emergency Planning map from which the dose rate data was taken.
 - 2. Enter the “Dose rate” at the location in mRem/hr.

3. Enter Time After Shutdown in hours.
4. Select Do Conversion button. The first year, second year, and fifty year doses will be displayed in mRem.
5. After the calculation is performed, the location pointed to by the mouse will be displayed as a number representing the sequential sample's number since the dose file was last zeroed.
6. The number on the map will be color coded according to the severity of the dose projections.
 - 1) A red number (danger) denotes a projected dose greater than 2000 mRem for the first year, or greater than 500 mRem for the second year or greater than 5000 mRem for fifty years.
 - 2) A yellow number (warning).
 - 3) A green number (safe) denotes an acceptable projected dose.
7. A display of the sequential number with date and time of the conversion is located in the lower right screen.

6.10 Utilities - This option contains many useful features.

- 6.10.1. Calculator - This option is a simple calculator.
- 6.10.2. Conversions - This feature allows the user to perform unit conversions: Length, Area, Volume, Flow, Speed, Pressure, Temperature, Dose, Equivalent Dose and Activity
- 6.10.3. Trends - This will trend main stack release rate and containment PAM readings from the network server.
- 6.10.4. Iodine Cartridge - This option allows the analysis of a field monitoring team air sample. The team will provide gross sample results from the field. The CADAP user will enter the appropriate information in the fields to calculate a thyroid dose rate.

NOTE

This method provides TEDE estimates, however, estimates can only be based on the last calculation or the last effluent sample calculation which limits this options usefulness, since these calculations are based on a specific time after shutdown. To provide greater flexibility, a set of curves has been provided in Attachment 7 for manually determining exposure to TEDE conversion factors at any time after reactor shutdown.

6.10.5. DRD to TEDE - This option calculates the TEDE from a self-reading dosimeter value.

1. Select either last calculation or last sample and click.

NOTE

While a "default" selection is available, the default value has been set to "1". Do not use this selection.

2. Click the "Calculate Conversion Factor" button and the conversion factor will appear in the box.
3. Multiply the dosimeter reading in "R" by the conversion factor to obtain the rem TEDE.

7 DOCUMENTATION

None.

CADAP DOSE CALCULATIONS

Each dose projection screen used in CADAP is self-explanatory. This attachment provides additional guidance for entering data and selecting the appropriate conditions. The actions described herein are for the most probable conditions and actions to be taken. When actual conditions differ from those described, the dose assessment team should make best judgement decisions for data entry and screen selection choices using input from appropriate emergency response personnel such as operations, engineering and technical personnel.

Meteorological Data

Condition	Action	Entry or Selection
Correct readings	None	None
Incorrect reading(s)	Obtain reading 1. RM-21 terminal (TSC & EOF) 2. AMI-80 computers (MCR, Envir. & Met Tower) 3. National Weather Service (last choice) (Attachment 4)	Enter reading(s)

Release Duration

Condition	Action	Entry or Selection
2 hours (default)	If a better value is known, use that value. Note: For Containment Loss Contingency, the most probable PRA failure mode will result in containment depressurization from 33 to 0 psig in 7 hours. Note: Containment venting duration, should normally be <0.25 hours if maintaining in a pressure band.	Enter appropriate value

Core State

Condition	Action	Entry or Selection
Correct selection	Verify with Attachment 6	Select correct core state
Incorrect selection	Determine state with Attachment 6	Select correct core state

Source Term Reduction Factors (RF)

Source Term Reduction Factors (RF) are applied to particulates and iodines only since noble gases are not reduced by filtration. All radionuclides are decay corrected based on time after shutdown. Reduction Factors are multiplied together and are limited to >0.001. If no Reduction Factors are chosen, then a RF of 0.4 is used for system plateout.

CADAP DOSE CALCULATIONS

Suppression Pool Scrubbing

Condition	Action/Condition	Entry or Selection	RF
Fuel handling accident	Submersed, water <212°F	Supp Pool <212°F (RF=0.01)	0.01
	Submersed, water ≥212°F	Supp Pool ≥212°F	0.05
	NOT submersed	None	1
Drywell Bypass leakage (above suppression pool level)	Obtain from Operations personnel in facility (DW#~RB# with major leak in DW) (top of DW vent holes 13 feet)	None	1
Drywell pressure vented to containment via suppression pool	Suppression pool <212°F	Supp Pool <212°F	0.01
	Suppression pool ≥212°F	Supp Pool ≥212°F	0.05
SRV discharge into suppression pool	Suppression pool level above 13 feet and <212°F	Supp Pool <212°F	0.01
	Suppression pool level above 13 feet and ≥212°F	Supp Pool ≥212°F	0.05
SRV discharge above pool level	Suppression pool level below 13 feet	None	1
More than one of the conditions listed above	Normally, the most conservative source term reduction method for the existing conditions is used	Most Conservative existing condition (Normally) [Order: None, ≥212°F, <212°F]	1, 0.05 or 0.01

Holdup

Condition	Action/Condition	Entry or Selection	RF
Activity is held up (decay & surface plateout) in containment prior to release to environment	<0.5 hours	<0.5 hrs holdup	1
	0.5-24 hours	0.5-24 hrs holdup	0.04
	>24 hours	>24 hrs holdup	0.01
Activity released from the core is held up (decay & surface plateout) in a compartment other than containment	Normally <0.5 is assumed. RPA must justify using any other holdup period.	Select <0.5 hrs holdup (Normally)	1

CADAP DOSE CALCULATIONS

Filtration

Condition	Action/Condition	Entry or Selection	RF
An unfiltered release path exists	Verify unfiltered	Do NOT select Filtration	1
SBGTS, FB and/or RW filter train running	Running, filters NOT damaged/loaded and no unfiltered release path	Select SBGTS, FB and/or RW as applicable	0.01
	Running but an unfiltered release path exists	NOT Selected as applicable	1
	Filters damaged/loaded (known or suspected)	NOT selected as applicable	1

Time After Shutdown

Condition	Action	Entry or Selection
Release from reactor	If time is not entered from the server, determine time of shutdown.	Enter time as necessary
Release from fuel handling accident	Determine last shutdown time for the fuel bundle(s)	Enter time

Dose Projection Screens - specific information.

Monitors Screen

Field	Action	Entry or Selection
Monitors	Determine release monitor(s)	Select all that apply
Monitor Reading(s)	Verify or obtain correct reading(s) (DRMS, computer, RM-23 (MCR))	Verify or enter correct reading(s)

Field Monitoring Team Screen

Field	Action	Entry or Selection
Gamma Dose Rate	Enter the gamma dose rate (closed window reading) in mr/hr	Enter dose rate in mr/hr
Downwind Distance	Enter the downwind distance in miles corresponding to dose rate reading	Enter distance in miles
Source Term Reduction	Normally the same variables chosen for Monitors at time of release	Select Appropriate choices

CADAP DOSE CALCULATIONS

Sample Screen Field	Action	Entry or Selection
Vent Flow Rate	Determine ventilation flow rate at sample point (DRMS, MCR)	Enter flow rate in CFM
Nuclides	Determine concentration of each nuclide present. Leave zeroes for unknown nuclides. Use Tab key to move between fields.	Enter concentration of each nuclide in $\mu\text{Ci/cc}$

Containment Venting Contingency Screen

Field	Action	Entry or Selection
Containment PAM Reading	Determine containment PAM reading (DRMS, computer, RM-23 (MCR))	Enter reading in R/hr
Release Duration	Determine expected venting duration, should normally be <0.25 hours if maintaining in a pressure band.	Enter duration in hours

Containment Loss Contingency Screen

Field	Action	Entry or Selection
Containment PAM Reading	Determine containment PAM reading (DRMS, computer, RM-23 (MCR))	Enter reading in R/hr
Release Duration	Determine expected duration of release. The most probable PRA failure mode will result in containment depressurization from 33 to 0 psig in 7 hours.	Enter duration in hours
Filtration	Containment failure will not normally be filtered by SBGTS	SBGTS NOT selected (Normally)

Fuel Handling Contingency Screen

Field	Action	Entry or Selection
Calculation Based On	Determine location: RB or FB	Select location
Time Since Bundle Last at Power	Determine time since last shutdown for affected bundles. Last refueling shutdown for recent bundles or contact Reactor Engineering.	Enter time in days
SBGTS or FHB Filter Status	Running, filters NOT damaged/loaded and no unfiltered release path	Select On
	Running but an unfiltered release path exists or filters damaged/loaded	Select Off

ESP EXPORT FILE

After each calculation using one of the CADAP options, the ESP button can be selected to produce the ESP Export file.

The ESP Export file contains calculated dose data that is available to the ESP computer for inclusion on the notification message form (NMF). Perform the following to view this file:

1. Open file c:\export\dose.out using any text editor such as Notepad or Wordpad. User will need to change file type to All Files in order to see the file.
2. A string of alphanumeric characters separated by spaces appear on the screen without identification as shown below. Each set of characters has been identified as to their source of information. The TEDE and Thyroid doses are in Rem. The noble gas and iodine release rates are in Ci/s. The user may need to scroll the screen to the right to see all of the numbers since the text does not always wrap.

08:40	09/02/01	4	270	MNP	D	4.89	dose.out 0.86	0.19	0.06	72.04	12.78	2.96	0.93	3.45	2.96
Time	Date	Wind Speed	Wind Direction	Affected Sectors	Wind Stability Class	SB TEDE	2 mile TEDE	5 mile TEDE	10 mile TEDE	SB Thyroid	2 mile Thyroid	5 mile Thyroid	10 mile Thyroid	NGas Release Rate	Iodine Release Rate

CADAP OUTPUT SCREEN (TYPICAL)

Output					
Calculation Date: 09/29/00			Calculation Time: 8:29:29.27		
Dose Rate Calculations					
Distance	TEDE Dose (rem)	TEDE Dose Rate (rem/hr)	Thyroid Dose (rem)	Thyroid Dose Rate (rem/hr)	Plume Arrival (hr)
SB	0.00	0.00	0.00	0.00	0.00
2 Miles	0.00	0.00	0.00	0.00	0.00
5 Miles	0.00	0.00	0.00	0.00	0.00
10 Miles	0.00	0.00	0.00	0.00	0.00
Meteorological Data			Protective Action Recommendations:		
Wind Speed: 10.00 mph Wind Direction: 0.00 Degrees Delta T: 0.00 Degrees F Stability Class: E			None required by Dose Projections. Evaluate Plant Conditions for possible Required Actions		
Emergency Classification			Assumptions		
Based on Dose Projections: None			Monitored Release Calculation No Damage Spectrum Used Release duration = 2.00 hours Time after shutdown = 0.00 hours (Reactor Still at Power) No filtration assumed for stack release System plateout assumed Main stack release rate: 2.96E+001 uCi/s Noble Gas release rate: 2.85E-005 Ci/s Iodine release rate: 1.11E-006 Ci/s		
ESP		Print		Return	

PR00118M.CDR

ALTERNATE METHOD OF DETERMINING STABILITY CLASS

1. Stability Class based on Sigma Theta [standard deviation of wind direction (SWD)]

- a. Obtain Sigma Theta ($\sigma\theta$) value, indicated as "SWD" (30 ft), from meteorological print out in Control Room, Environmental Lab or the base of meteorological tower.
- b. Select the stability class from the following table:

SWD ($\sigma\theta$) Range		
SWD (0) in degrees(°)	Stability Class	in degrees (°)
≥ 22.5	A	(SWD ≥ 22.5)
$< 22.5 \geq 17.5$	B	(SWD 22.4 to 17.5)
$< 17.5 \geq 12.5$	C	(SWD 17.4 to 12.5)
$< 12.5 \geq 7.5$	D	(SWD 12.4 to 7.5)
$< 7.5 \geq 3.8$	E	(SWD 7.4 to 3.8)
$< 3.8 \geq 2.1$	F	(SWD 3.7 to 2.1)
< 2.1	G	(SWD < 2.1)

2. If no meteorological tower information is available, estimate stability class from current weather conditions as follows:

- a. Call the National Weather Service (Numbers are in the Emergency Telephone Book) and obtain the following:

- (1) Wind Direction _____ Degrees (From)
- (2) Wind Speed _____ MPH
- (3) Cloud Cover _____ 10ths
- (4) Cloud Ceiling _____ Feet
- (5) Front between RBS and Airport? Yes __ No __ (If Yes go to 'f.)

ALTERNATE METHOD OF DETERMINING STABILITY CLASS

- b. Modify National Weather Service (NWS) Wind Speed in MPH to local RBS meteorology by multiplying by the appropriate correction factor below:

TABLE 2

Month	Airport Wind Speed (MPH)		Correction factor		Local RBS Wind Speed (MPH)
JAN.	_____	x	0.576	=	_____
FEB.	_____	x	0.586	=	_____
MAR.	_____	x	0.557	=	_____
APR.	_____	x	0.476	=	_____
MAY	_____	x	0.446	=	_____
JUNE	_____	x	0.435	=	_____
JULY	_____	x	0.481	=	_____
AUG.	_____	x	0.474	=	_____
SEP.	_____	x	0.467	=	_____
OCT.	_____	x	0.475	=	_____
NOV.	_____	x	0.563	=	_____
DEC.	_____	x	0.554	=	_____

NOTE

If nighttime, skip Step 'c.' and go directly to Step 'd.'.

ALTERNATE METHOD OF DETERMINING STABILITY CLASS

- c. Determine the **INSOLATION CLASS NUMBER (ICLNo.)** from the following table (Table 3)

ICLNo. = _____

TABLE 3

Insulation Class Number (ICLNo.) for Time of Year and Time of Day

HOURLY OF DAY (24 hour Clock)

Time of YEAR	00-6	7	8	9	10	11	12	13	14	15	16	17	18-24
Jan 5-Jan 22	1	1	1	2	2	3	3	3	2	2	1	1	1
Jan 23-Feb 6	1	1	2	2	2	3	3	3	2	2	2	1	1
Feb 7-Feb 21	1	1	2	2	3	3	3	3	3	2	2	1	1
Feb 22-Mar 8	1	1	2	2	3	3	3	3	3	2	2	1	1
Mar 9-Mar 23	1	1	2	3	3	3	3	3	3	3	2	1	1
Mar 24-Apr 7	1	2	2	3	3	3	4	3	3	3	2	2	1
Apr 8-Apr 22	1	2	2	3	3	4	4	4	3	3	2	2	1
Apr 23-May 7	1	2	2	3	3	4	4	4	3	3	2	2	1
May 8-May 22	1	2	3	3	4	4	4	4	4	3	3	2	1
May 23-Jun 6	1	2	3	3	4	4	4	4	4	3	3	2	1
Jun 7-Jun 21	1	2	3	3	4	4	4	4	4	3	3	2	1
Jun 22-Jul 6	1	2	3	3	4	4	4	4	4	3	3	2	1
Jul 7-Jul 21	1	2	3	3	4	4	4	4	4	3	3	2	1
Jul 22-Aug 5	1	2	3	3	4	4	4	4	4	3	3	2	1
Aug 6-Aug 20	1	2	2	3	3	4	4	4	3	3	2	2	1
Aug 21-Sep 4	1	2	2	3	3	4	4	4	3	3	2	2	1
Sep 5-Sep 19	1	2	2	3	3	3	4	3	3	3	2	2	1
Sep 20-Oct 4	1	1	2	3	3	3	3	3	3	3	2	1	1
Oct 5-Oct 19	1	1	2	2	3	3	3	3	3	2	2	1	1
Oct 20-Nov 3	1	1	2	2	3	3	3	3	3	2	2	1	1
Nov 4-Nov 18	1	1	1	2	2	3	3	3	2	2	1	1	1
Nov 19-Dec 3	1	1	1	2	2	3	3	3	2	2	1	1	1
Dec 4-Dec 18	1	1	1	2	2	2	3	2	2	2	1	1	1
Dec 19-Jan 4	1	1	1	2	2	2	3	2	2	2	1	1	1

ALTERNATE METHOD OF DETERMINING STABILITY CLASS

- d. For daytime, determine the Net Radiation Index (NRADI) using the ICLNo determined in 'c.' above, information concerning cloud cover and cloud ceiling from 'a.' above, and Figure 1. For nighttime, cloud cover in tenths is the only parameter needed to determine NRADI from Figure 1. Daytime is defined as 1 hour after sunrise to 1 hour before sunset.

NRADI = _____

- e. Determine the Stability Class using the modified wind speed from 'b.' and the NRADI from 'd.' above.

TABLE 4

Modified wind speed in mph from <u>Item b.</u>	<u>NRADI</u>						
	<u>4</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>0</u>	<u>-1</u>	<u>-2</u>
*0-1	A	A	B	C	D	F	G
2-3	A	B	B	C	D	F	G
4-5	A	B	C	D	D	E	F
6	B	B	C	D	D	E	F
7	B	B	C	D	D	D	E
8-9	B	C	C	D	D	D	E
10	C	C	D	D	D	D	E
11	C	C	D	D	D	D	D
12	C	D	D	D	D	D	D

Stability Class _____

- f. If a front exists between RBS and Baton Rouge Metropolitan Airport, request that the NWS Meteorologist recommend the "best estimate" wind speed and direction to be used for RBS meteorological conditions, and the approximate time that this condition will exist.

* For wind speed not included in ranges given, round to the nearest whole number.

ALTERNATE METHOD OF DETERMINING STABILITY CLASS

FIGURE 1

NET RADIATION INDEX
(NRADI)

DAYTIME				NIGHTTIME
CLCVR	CLOUD CEILING			
	<7000 FT	7000 TO 15000 FT	>15000 FT	
0/10	NRADI = ICLNO			NRADI = -2
1/10				
2/10				
3/10				
4/10				
5/10	NRADI = ICLNO - 2*	NRADI = ICLNO - 1*		NRADI = -1
6/10				
7/10				
8/10				
9/10	NRADI = 0			NRADI = -1
10/10				

* If less than 1, set NRADI = 1.

DRMS METEOROLOGICAL DATA

Meteorological data is available from the DRMS system by typing "Help Met" and then pressing the return key at the following locations:

TSC
DRMS/ERIS Computer Room
EOF

The typical output format is shown below.

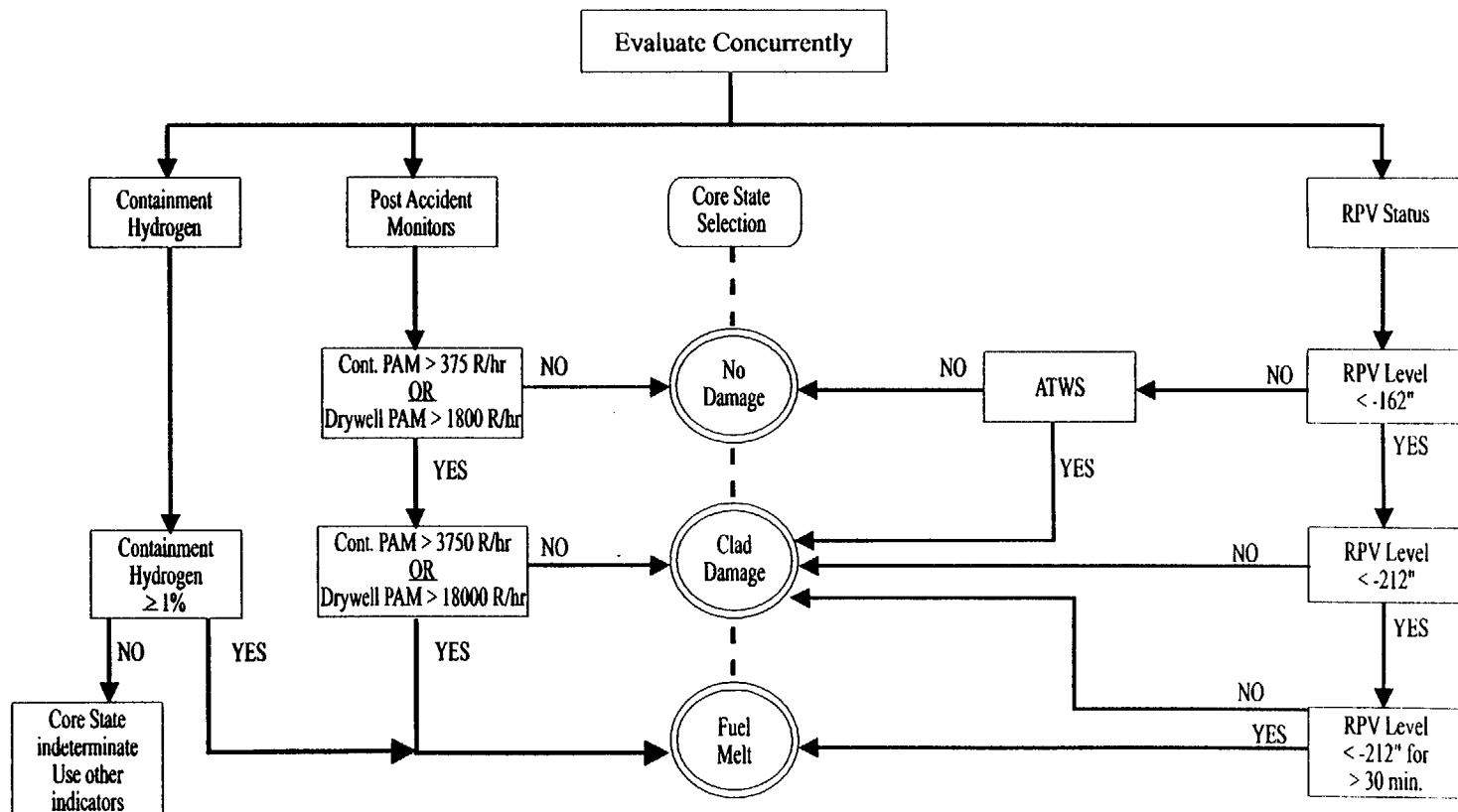
METEOROLOGICAL DATA

RM-21 Date/Time: 5/1/02 13:48: 0	Data Date/Time: 5/1/02 13:40
Primary Sensors -- 45 M Level	Secondary Sensors -- 45 M Level
-----	-----
Wind Speed 6.1 Mph	Wind Speed 6.0 Mph
Wind Direction 321.0 Deg A	Wind Direction 317.6 Deg A
Dewpoint 0.0 * Deg F	
Primary Sensors -- 10 M Level	Secondary Sensors -- 10 M Level
-----	-----
Wind Speed 4.7 Mph	Wind Speed 4.5 Mph
Wind Direction 325.7 Deg A	Wind Direction 321.5 Deg A
Ambient Temp. 90.5 Deg F	Ambient Temp. 91.2 Deg F
Dewpoint 0.0 * Deg F	
Precipitation 0.00 Inch	
Primary Sensors -- 45 M - 10 M	Secondary Sensors -- 45 M - 10 M
-----	-----
Delta Temperature -1.197 Deg F	Delta-Temperature -2.135 Deg F
Stability Class B	Stability Class A

*Indicates data is questionable or bad.

PROCEDURE AID

This information was intended for verification of CADAP "Core State" ONLY! It is not to be used for any other purpose. "Core State" is the "TRIGGER" mechanism which provides CADAP with the assumed isotopic mixture in order to calculate offsite TEDE.



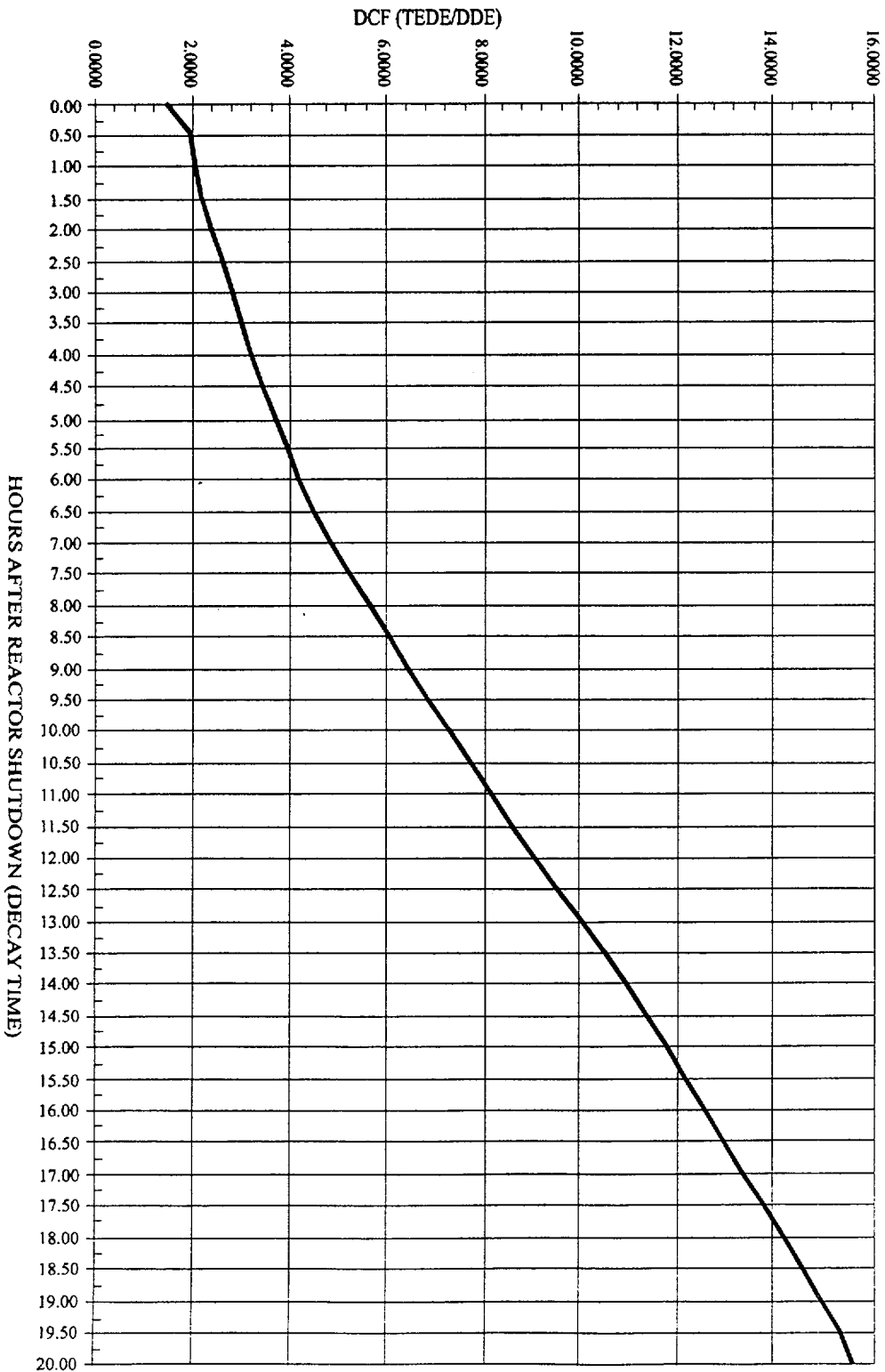
da00008m.cdr

Approved: _____ KCN Date

CORE STATE DETERMINATION

PROCEDURE AID

TEDE/DDE DCF FOR UNFILTERED RELEASE



KYS0016M.CDR

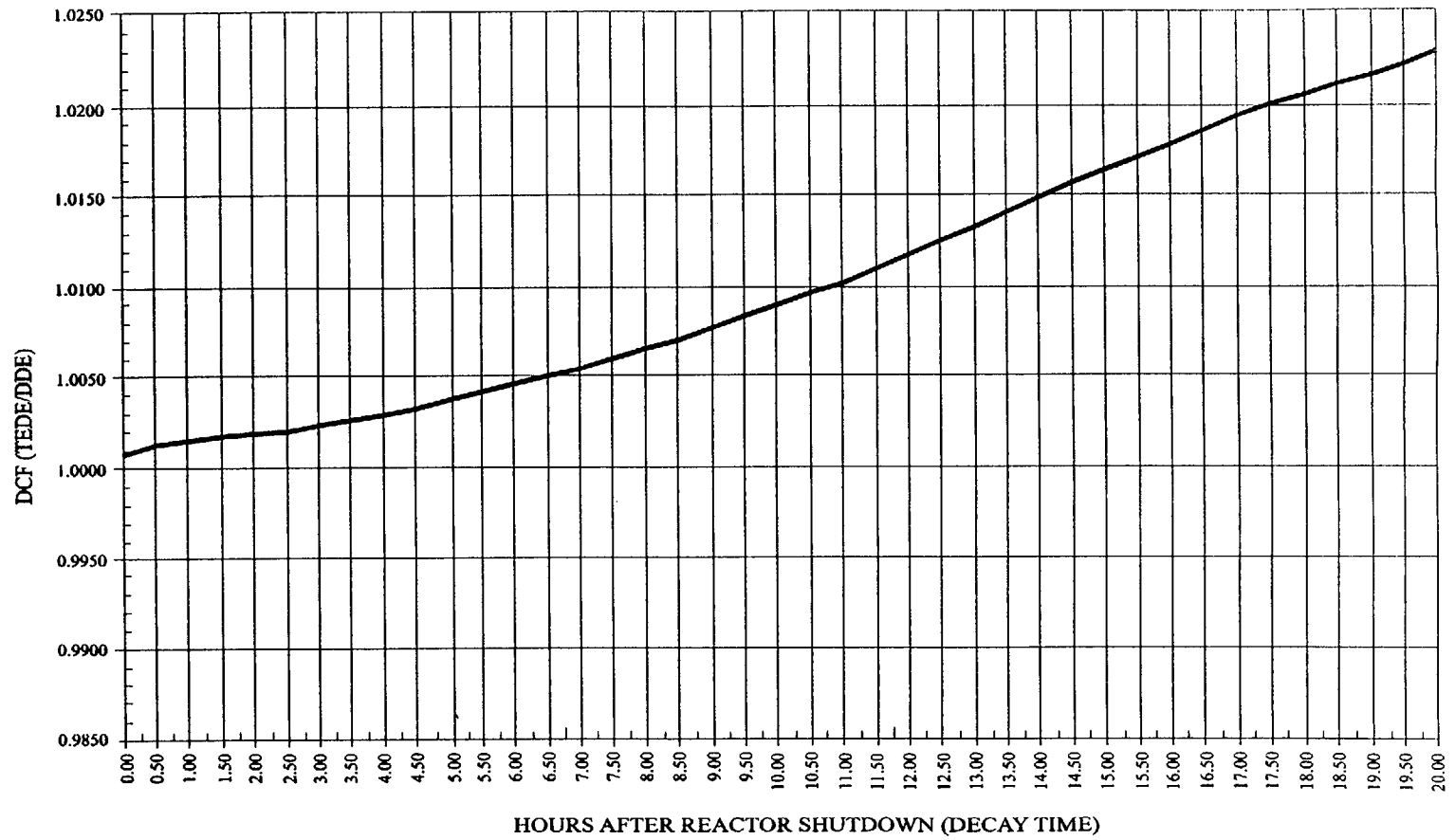
Approved: _____

KCN Date _____

DOSIMETER READINGS TO TEDE CONVERSION

PROCEDURE AID

TEDE/DDE DCF FOR FILTERED RELEASE



KYS0017M.CDR

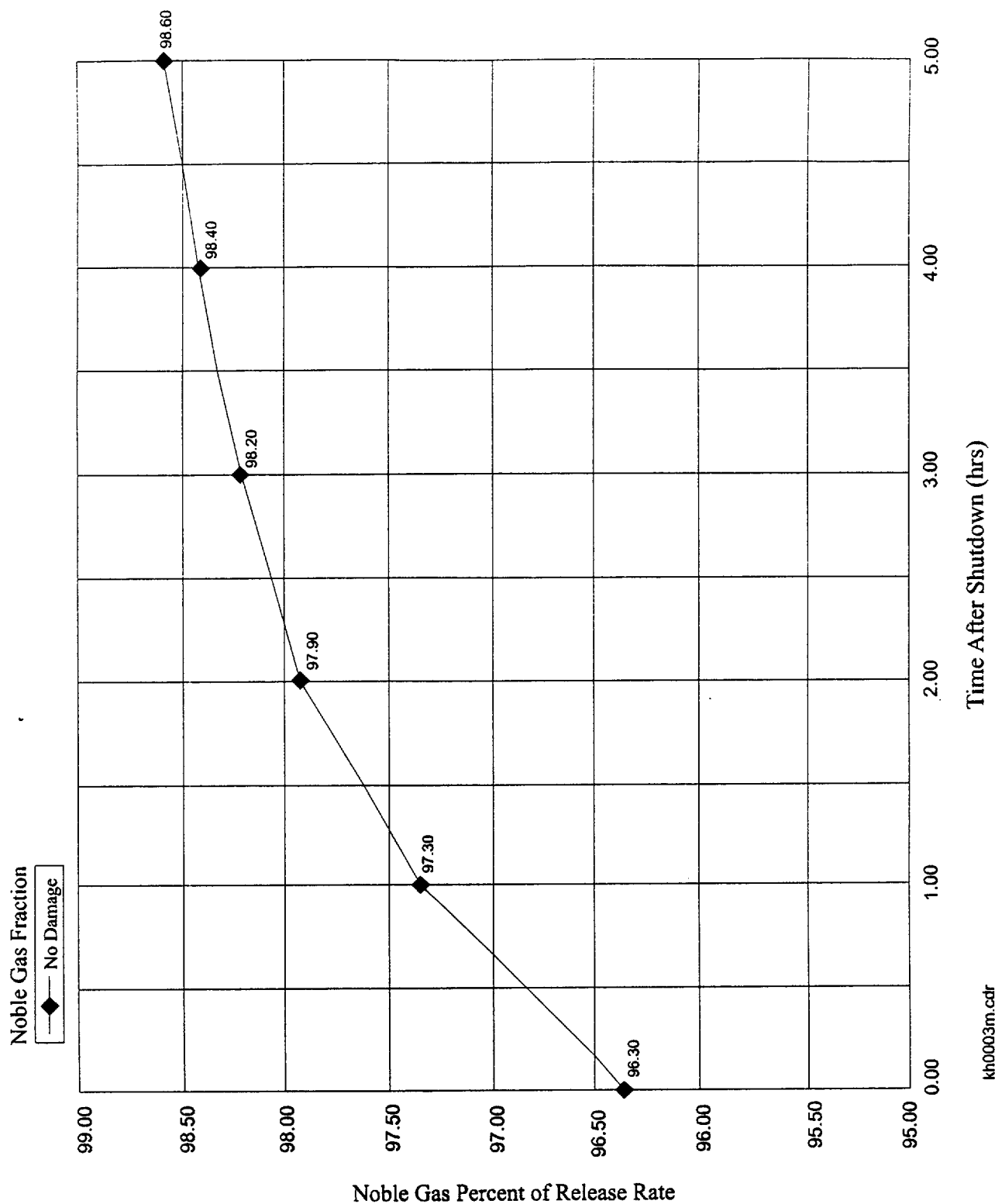
Approved: _____
KCN Date

DOSIMETER READINGS TO TEDE CONVERSION

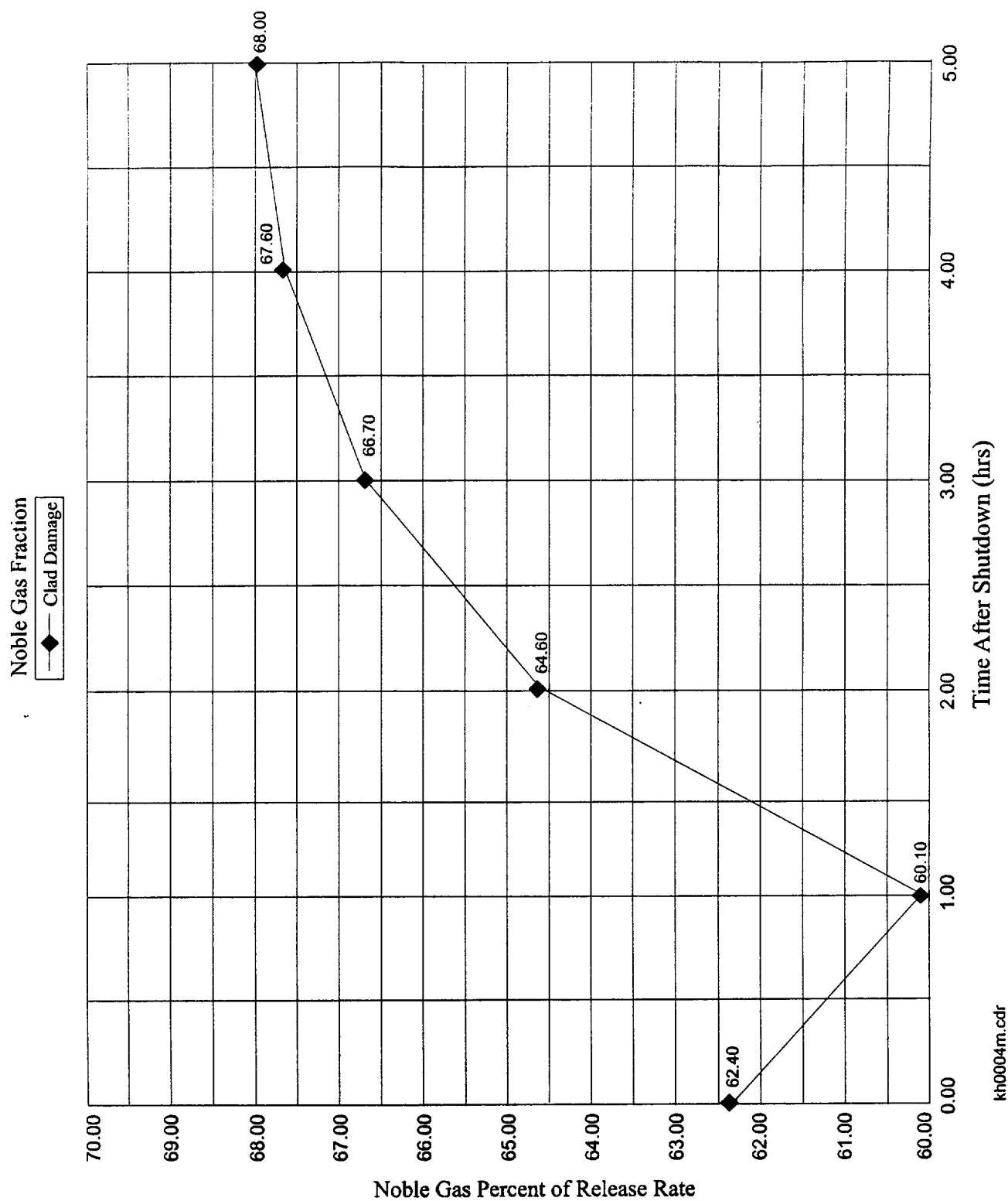
NOBLE GAS AND IODINE RELEASE RATE DETERMINATION

1. Read the release rate in $\mu\text{Ci/sec}$ from the appropriate DRMS channel (4125, 4005 or 4006)
2. Convert release rate in step 1 above to Ci/sec by dividing the release rate in $\mu\text{Ci/sec}$ by $1\text{E}6$.
3. From pages 2, 3, and 4 of this Attachment, depending on core state (See Attachment 6) find the Noble Gas Fraction for the desired time after reactor shutdown.
4. Multiply the Ci/sec from step 2 above by the Noble Gas Fraction determined in step 3 above. This result is the Noble Gas release rate in Ci/sec to be entered on the Notification Message Form.
5. Subtract the Noble Gas release rate determined in step 4 above from the total release rate in Ci/sec determined in step 2 above. The result is the Iodine release rate in Ci/sec to be entered on the Notification Message Form. Note that this value will also include any particulates being released. There are no provisions for separating Iodines and particulates in this method.

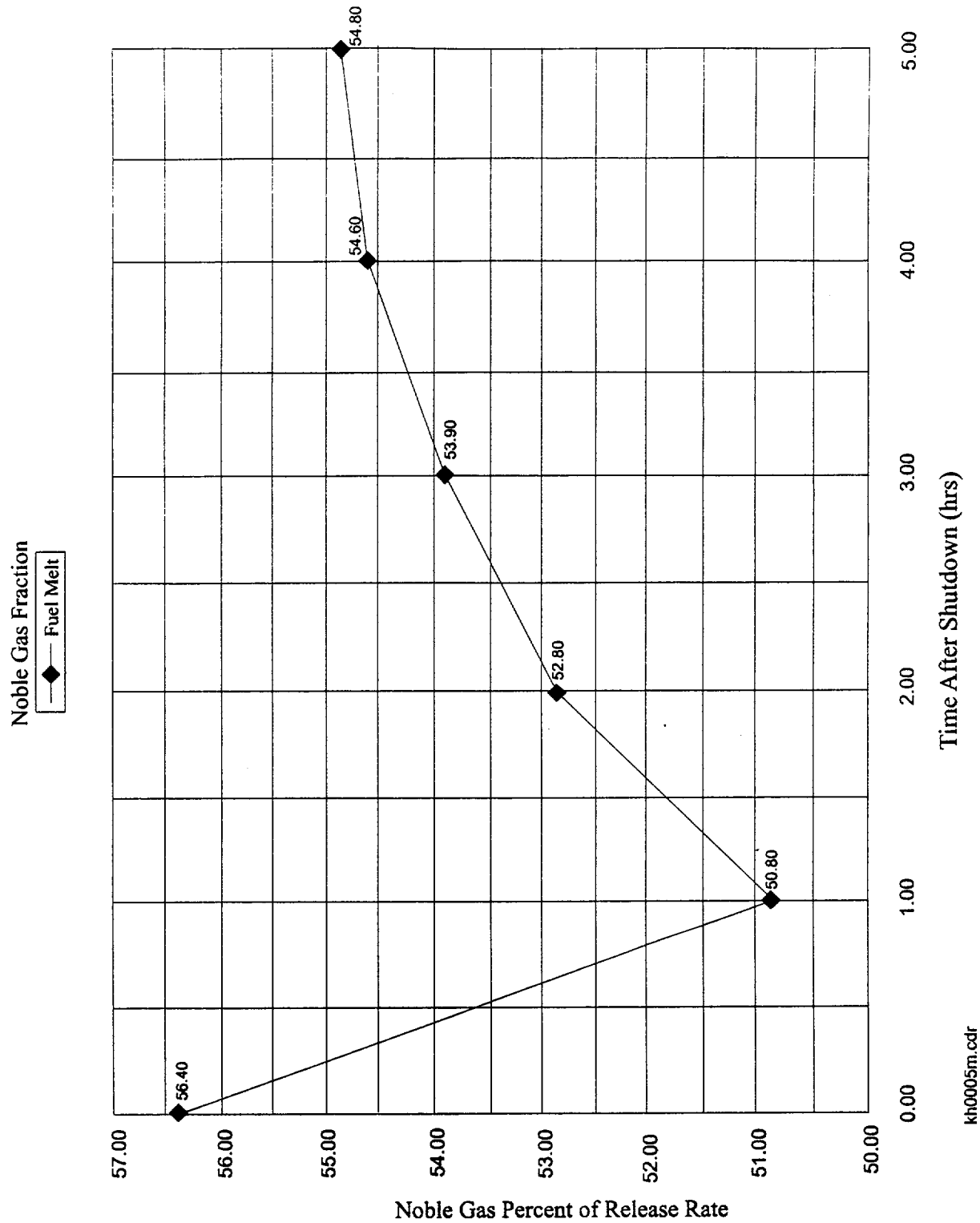
NOBLE GAS AND IODINE RELEASE RATE DETERMINATION



NOBLE GAS AND IODINE RELEASE RATE DETERMINATION



NOBLE GAS AND IODINE RELEASE RATE DETERMINATION





ENTERGY

**RIVER BEND STATION
STATION SUPPORT MANUAL
*EMERGENCY IMPLEMENTING PROCEDURE**

****OPERATIONS SUPPORT CENTER***

PROCEDURE NUMBER:	*EIP-2-016
REVISION NUMBER:	*20
Effective Date:	* <u>JUN 07 2002</u>

NOTE : SIGNATURES ARE ON FILE.

***INDEXING INFORMATION**

REFERENCE USE

RECEIVED

JUN 07 2002

Drawing Control Center

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1 **PURPOSE**

This procedure provides instructions for activation, operation, and deactivation of the Operations Support Center (OSC).

2 **REFERENCES**

- 2.1 EIP-2-012, Radiation Exposure Controls
- 2.2 EIP-2-015, Post Accident Sampling Operations
- 2.3 RP-104, Personnel Contamination Events
- 2.4 RSP-0213, Control and Handling of Radioactive Material
- 2.5 RPP-0006, Radiological Surveys

3 **DEFINITIONS**

- 3.1 Activation - The process of assembling personnel, verifying equipment operability, and making a facility ready to support the emergency response.
- 3.2 Operational - Status of an emergency facility declared by the appropriate facility manager upon determining that the facility is adequately staffed and equipment is set up and available to perform the emergency functions assigned to that facility.
- 3.3 Habitable - For the purpose of this procedure, the term habitable is based solely on radiological conditions, however, the OSC Director may declare the OSC uninhabitable based upon other conditions.
- 3.4 Augmentation - Actions taken to support onshift personnel or the Emergency Response Organization.

RESPONSIBILITIES

- 4.1 OSC Director - direct and control the OSC, coordinate all OSC emergency response activities, and keep the Emergency Director informed about OSC activities.
- 4.2 OSC Manager(s) - ensure that the OSC is activated, ensure OSC Team Work Orders are completed for all work teams dispatched, assume the responsibilities of OSC Director when the OSC Director is not available, keep the OSC Director informed of the status of OSC operations, and ensure OSC staff provide support functions per the applicable section(s) of this procedure.
- 4.3 Senior Radiation Protection Technician (SRPT) - assist in making the OSC operational, coordinate the activities of Radiation Protection personnel, ensure all work teams dispatched in the plant are briefed and debriefed.
- 4.4 Status Communicator(s) - receive information pertaining to current plant parameters and action initiated by the Control Room and/or TSC and update the status board with current information and Work Team status.
- 4.5 Administrative Support Personnel - provide administrative and clerical support to the OSC staff.
- 4.6 Mechanical Maintenance Personnel - Implement repair and corrective actions as directed by the OSC Director.
- 4.7 Electrical Maintenance Personnel - Implement repair and corrective actions as directed by the OSC Director.
- 4.8 I & C Maintenance Personnel - Implement repair and corrective actions as directed by the OSC Director.
- 4.9 Operations Personnel - assist the OSC teams on plant / operational matters, fire brigade, or search and rescue as directed by the OSC Director.

- 4.10 Nuclear Chemistry Technician Personnel - support accident assessment efforts by obtaining and analyzing plant radiochemistry and chemistry samples, perform dose assessment in the Control Room until the TSC is operational and serve as a member of the offsite Radiological Monitoring Team as directed by the OSC Director.
- 4.11 Radiation Protection Technician Personnel - provide personnel monitoring and dosimetry for emergency response personnel; provide radiation protection coverage for repair and corrective actions, search and rescue, first aid, and fire fighting; assist in access control to radioactive contaminated areas; provide for personnel monitoring during an evacuation of site personnel; and assist with radiation protection tasks as directed by the Senior Radiation Protection Technician including radiological briefing and debriefing of teams.
- 4.12 Habitability Technician - complete the check of emergency equipment and perform initial and periodic habitability surveys of the Control Room and OSC; keep the Radiation Protection Coordinator and Senior Radiation Protection Technician informed of CR and OSC habitability; maintain the OSC contamination control point, and perform other actions as directed by the Senior Radiation Protection Technician .
- 4.13 Fire Brigade - provide fire suppression and protection activities as required. Fire Brigade members may perform other functions as directed when fire brigade emergency response is not required.
- 4.14 First Responder Team - provide emergency care or treatment to ill or injured personnel before medical assistance can be obtained during an emergency. First Responder Team members may perform other functions as directed when medical emergency response is not required.
- 4.15 Search and Rescue - search for missing or troubled plant personnel and return them safely to the facility. Search and Rescue Team members may perform other functions as directed when search and rescue emergency response is not required.

5 **GENERAL**

- 5.1 Attachment 10, Operations Support Center Organization Chart is a typical makeup for the OSC.
- 5.2 Attachment 11, Operations Support Center Floor Plan is a typical setup for the OSC.
- 5.3 The OSC may be activated at any time, and shall be activated at an Alert, Site Area Emergency, or General Emergency declaration. Once activated, the OSC shall become operational as soon as possible after declaration of any of these emergency classifications. When OSC minimum staffing can be accomplished with onsite personnel, it is the goal to become operational within 45 minutes. Otherwise, it is the goal to be operational in 90 minutes.

6 **PROCEDURE**

NOTE

The actions of this procedure may be completed in any sequence, however, the sequence presented is recommended.

- 6.1 OSC Director
 - 6.1.1. The OSC Director should use Attachment 1 as a guideline. Document pertinent information on Attachment 9.

NOTE

An OSC Manager from each discipline - I&C, Mechanical, and Electrical - are assigned to respond at the ALERT level however all three are not required for minimum staffing.

- 6.2 OSC Manager(s)
 - 6.2.1. The OSC Manager should use Attachment 2 as a guideline. Document pertinent information on Attachment 9.

6.3 Senior Radiation Protection Technician

- 6.3.1. The Senior Radiation Protection Technician should use Attachment 3 as a guideline. Document pertinent information on Attachment 9.

6.4 OSC/CR Habitability Technician

- 6.4.1. The OSC/CR Habitability Technician should use Attachment 4 as a guideline. Document pertinent information on Attachment 9 or survey forms as appropriate.

6.5 Status Communicator(s)

- 6.5.1. The Status Communicator(s) should use Attachment 5 as a guideline.

6.6 OSC Support Personnel

- 6.6.1 The OSC Support Personnel should use Attachment 6 as a guideline. Document pertinent actions on Attachment 9, Work Order or other appropriate forms such as survey forms.

7 **DOCUMENTATION**

Attachment 1-7, 9, and 13-14 of this procedure will be sent to Permanent Plant Files (PPF) per EPP-2-100 by the Manager - Emergency Preparedness.

OSC DIRECTOR

<u>ACTIVATION</u>	Date: _____ Time: _____	<u>Actions Completed</u> <u>Initial</u>
1. Announce that no eating, drinking, or chewing is allowed until habitability is determined. Ensure that status is posted on OSC status board.		_____
2. If the OSC is determined to be uninhabitable, obtain concurrence from the Emergency Director and relocate OSC personnel to the TSC conference room.		_____
3. Direct personnel to sign in and activate the facility.		_____
4. Receive briefing from the Emergency Director on plant and emergency status, and work teams dispatched from the Control Room.		_____
5. Brief OSC personnel on plant status.		_____
6. All minimum staffing personnel have completed the activation portion of their checklists and are prepared to perform functional responsibilities:		_____
a. Operations Support Center Director or Manager		
b. Senior Radiation Protection Technician		
c. Nuclear Chemistry Technicians (Only 1 required for minimum staffing)		
d. Radiation Protection Technicians (Only 1 required for minimum staffing)		
e. Mechanical Maintenance (Only 1 required for minimum staffing)		
f. Electrical Maintenance (Only 1 required for minimum staffing)		
g. I & C Technicians (Only 1 required for minimum staffing)		
7. Notify TSC that the OSC is operational.		_____
8. Announce to the OSC that the OSC is operational.		_____

SUBSEQUENT ACTIONS

1. Remain in the immediate OSC area unless relieved by an OSC Manager.
2. Ensure that the TSC/OSC Video Link is operational.
3. Direct an individual to initiate a ventilation check using Attachment 7.

OSC DIRECTOR

4. Coordinate OSC activities with the TSC Maintenance Support Coordinator as follows:
 - a. Coordinate and continuously monitor work team priorities.
 - b. Report the dispatch of work teams.
 - c. Report status of work teams dispatched.
 - d. Request any additional equipment or materials needed.
 - e. Report on work teams returning to the OSC and final status.
5. Direct the OSC Manager(s) to brief work teams on actions to be performed and to have an OSC Work Order form filled out for each work team dispatched.
6. Conduct periodic OSC briefings on plant conditions and tasks in progress.
7. Keep the Emergency Director informed on OSC operations.
8. Ensure that Work Orders are fully completed from all work teams that have completed their assignments.
9. If decision is made to relocate the OSC, implement the relocation section of this procedure.

RELOCATION

NOTE

This section is applicable if the OSC Director declares the OSC uninhabitable.

1. Brief the OSC members of plan to relocate to the TSC Conference Room.
2. Notify teams dispatched of OSC relocation.
3. Direct OSC Manager to ensure work orders, dispatched work team status, applicable procedures, handheld radios, respirators, SCBA's, spare SCBA bottles, and equipment as required are relocated to the TSC.
4. Direct the OSC relocation to the TSC Conference Room.

DEACTIVATION

1. Deactivate the OSC when directed by the Emergency Director.
2. Direct the OSC Managers to deactivate the OSC.

OSC MANAGER

ACTIVATION

Date: _____ Time: _____

Actions Completed
Initial

1. Periodically announce that no eating, drinking, or chewing is allowed until habitability is determined. _____
2. Obtain habitability status from the SRPT. _____
3. Assume the OSC Director's responsibilities during absence of the OSC Director. _____
4. Determine the operational status of the following equipment: _____

(circle one)

 - At least one River Bend CBX extension Yes/No
 - Inplant/Services Building Gaitronics System Yes/No
 - Portable radios (six) Yes/No
 - TSC intercom Yes/No
5. Ensure OSC door # SB109-18 is locked.(See Attachment 11 for location). _____
6. Ensure OSC personnel have carded in on the accountability card reader. If card reader is inoperable, prepare and maintain a list of names and badge numbers to manually maintain accountability. _____
7. Ensure that work teams dispatched by the Control Room are posted to the OSC status boards and accounted for. _____
8. Inform the OSC Director when prepared to assume functional duties. _____

OSC MANAGER**SUBSEQUENT ACTIONS**

1. Augment the OSC staff as necessary by contacting the TSC Administrative Coordinator. Call the Safety Representative to report to the OSC, if necessary.
2. Direct OSC personnel to complete the OSC PERSONNEL CHECKLIST and report any activity not qualified to perform.
3. Determine the operational status of the TSC/OSC Video Link.
4. Obtain a status from the work teams dispatched by the Control Room and complete the applicable information on a Work Order, documenting teams dispatched before OSC activation. Track these work teams to completion of assignment.
5. Ensure an OSC Team Work Order is completed for all work teams dispatched. Individuals sent to perform functions in the Services Building do not require an OSC Team Work Order but should be tracked.
6. Compose work teams, include a Radiation Protection Technician if necessary.
7. Check qualifications of search and rescue team members as necessary. At least 1 team member must be trained in search and rescue techniques and at least 1 team member must be trained in the use of radiation survey instruments.
8. Brief work teams on actions to be performed by the team using Attachment 12 as a guideline and direct a SRPT to provide a brief, if applicable.
9. Ensure that OSC status boards are kept updated.
10. Obtain a radio to monitor work team communications.
11. Give the work team a copy of the OSC Team Work Order. Place the original in a file and inform the OSC Director that the team has been dispatched.
12. When work teams return to the OSC, complete the OSC Team Work Order form and ensure a SRPT completes a radiological debriefing, and fills out their section of the form.
13. Review the OSC Team Work Order with the OSC Director for any further actions required. If further action is required, document it in the Task Status section of the OSC Team Work Order form and have a work team briefed and sent back to the plant.

OSC MANAGER

SUBSEQUENT ACTIONS (Cont'd)

14. If no further actions are required, sign or have the OSC Director sign the OSC Team Work Order form in the Task Disposition section.
15. Provide the Status Communicator with current Work Order information for status board update.
16. Maintain a file of active and completed Work Orders.
17. Establish long term relief rotation by requesting the Administrative Coordinator in the TSC to call necessary personnel.
18. Implement the relocation section of this procedure when directed by the OSC Director.

RELOCATION

NOTE

This section is applicable if the OSC Director declares the OSC uninhabitable.

1. Direct OSC personnel to relocate work orders, work team status, applicable procedures, all handheld radios, respirators, SCBA's, spare SCBA bottles, instruments and equipment as required to the TSC.

DEACTIVATION

1. When directed by the OSC Director, have OSC staff deactivate the OSC.
2. Ensure that all equipment is returned and report damaged or missing equipment to the Manager - Emergency Preparedness.
3. Ensure that all documentation is forwarded to the Manager - Emergency Preparedness.

SENIOR RADIATION PROTECTION TECHNICIAN

<u>ACTIVATION</u>	Date: _____ Time: _____	<u>Actions Completed</u>
		<u>Initial</u>
1. Evaluate radiological conditions in the OSC and CR. Ensure that surveys are initiated, reviewed, and habitability determined, as necessary, using the following guidelines, and make appropriate recommendations to the OSC Director. Provide pertinent information to the RP Coordinator.		_____
a. Facility habitability is based on a maximum dose limit of 5 rem TEDE over an assumed 12 hour shift.		
b. A combination of 200 mR/hr to the whole body (Deep Dose Equivalent) plus an airborne concentration of 5E-6 μ Ci/cc radioiodine in the facility equates to a TEDE of approximately 5 rem in 12 hours.		
2. Evaluate need for temporary boundary to Emergency Locker.		_____
3. Ensure the distribution of pocket/electronic dosimeters to OSC and Control Room personnel and announce the frequency at which individuals should read their dosimeters. As necessary, direct the issuing of TLDs using page 4 of this Attachment.		_____
4. As required, establish a contamination control point to the OSC. If needed, coordinate with TSC Habitability Technician the establishment of a clean path between OSC and TSC.		_____
5. Inform the OSC Director when prepared to assume functional duties.		_____

SENIOR RADIATION PROTECTION TECHNICIAN

SUBSEQUENT ACTIONSNOTE

During a classified emergency, the RBS administrative controls are suspended, however, every effort shall be made to maintain personnel exposure within the limits established by 10CFR20.

1. Ensure radiological briefings are conducted for all work teams dispatched, as appropriate. Ensure appropriate sections of the OSC Team Work Order form are completed. Other Radiation Protection personnel may be assigned to conduct radiological briefings and debriefings.
2. Ensure the work team is debriefed and the OSC Team Work Order is completed whenever work teams return and give the completed form to the OSC Manager(s).

CAUTION

During a Fuel Handling Accident where the spent fuel is greater than 30 days old, ^{85}Kr (10.7 year half-life) is the principle gaseous isotope available for release. It is important in this case to take (RO-2/2A) open window as well as closed window readings since the primary dose from this isotope is Shallow Dose Equivalent. The β^-/γ emission ratio is approximately 240.

3. Dispatch plant monitoring teams, as requested. Keep the OSC Director informed of plant monitoring team activities and radiological conditions.
4. Review surveys, determine habitability, and make appropriate recommendations to the OSC Director.
5. Coordinate with the Radiation Protection Coordinator on the use of KI in accordance with EIP-2-012.
6. Monitor and record exposure of OSC personnel. Keep the OSC Manager and Radiation Protection Coordinator informed of exposures and margins.
7. Provide a Radiation Protection Technician or Chemistry Technician to act as Offsite Team Coordinator in the TSC when directed by the RPC.

SENIOR RADIATION PROTECTION TECHNICIAN

RELOCATION

NOTE

This section is applicable if the OSC Director declares the OSC uninhabitable.

1. Relocate equipment required for continued emergency response to the TSC conference room. (Respirators, SCBA's, spare SCBA bottles, PCs, logs, exposure records, instruments, etc. as required to the TSC.)
2. Evaluate the need to move the contamination control points and relocate as necessary.
3. Relocate to the TSC conference room as directed.

DEACTIVATION

1. When directed by the OSC Director, deactivate the OSC.
2. Ensure that all dosimeters and TLDs that were issued are collected.
3. Ensure that all monitoring instrumentation is operable then turn power OFF and store in the proper location. Report problems to the OSC Manager.
4. Ensure that all documentation is forwarded to the OSC Manager.

TLD Tracking Log (Typical)

Date: _____

[illegible]

OSC/CR HABITABILITY TECHNICIAN**ACTIVATION**

Date: _____ Time: _____

Action Completed**Initial**

1. Perform operational checks on monitoring equipment prior to use. _____
2. Perform radiation and airborne radioactivity surveys in accordance with RPP-0006, Radiological Surveys or applicable attachments of EIP-2-014, Offsite Radiological Monitoring, to ensure that the OSC and CR are habitable. Report results to the SRPT. _____
3. Inform the SRPT when prepared to perform functional responsibilities. _____

SUBSEQUENT ACTIONS

1. Establish a contamination control point in accordance with Radiation Protection Procedures as directed. Coordinate with the TSC Habitability Technician the establishment of a clean path between OSC and TSC, if required.
2. Periodically perform surveys of the OSC and CR.

RELOCATION**NOTE**

This section is applicable if the OSC Director declares the OSC uninhabitable.

1. Relocate to the TSC conference room as directed.

DEACTIVATION

1. When directed by the OSC Director, deactivate the OSC.
2. Ensure that all monitoring instrumentation is stored and operable. Report any problems to the SRPT.
3. Ensure that all documentation is forwarded to the SRPT.

STATUS COMMUNICATOR

ACTIVATION

Date: _____ Time: _____

Actions CompletedInitial

1. Update status boards with current information. _____
2. Request information on work teams already dispatched and update status board. _____
3. Ensure that OSC personnel are logged-in on the status board. _____
4. Inform the OSC Manager when prepared to assume functional duties. _____

SUBSEQUENT ACTIONS

1. Continually update status boards.
2. Record chronology of events on log form.
3. Ensure that work team status and priority are current.
4. Assist the OSC Manager as necessary.

RELOCATION**NOTE**

This section is applicable if the OSC Director declares the OSC uninhabitable.

1. Relocate to the TSC conference room as directed.

DEACTIVATION

1. When directed by the OSC Manager, deactivate the OSC.
2. Ensure that all documentation is forwarded to the OSC Manager.

OSC SUPPORT PERSONNEL

ACTIVATION

Date: _____ Time: _____

1. Sign in on the OSC status Board.
2. Perform duties as directed.
3. Inform the OSC Manager when prepared to perform functional duties.

SUBSEQUENT ACTIONS

1. Radiation Protection Technicians
 - a. Perform an operability check on all survey instruments prior to use.
 - b. Assume the SRPT responsibilities when the SRPT is not available.
 - c. Assist with radiation protection tasks as directed by the SRPT, including conducting briefs and debriefs.
 - d. Provide support for fires, medical, and assembly area activities, as directed.
 - e. If the EOF is relocated, perform the duties of the Offsite Team Coordinator in the TSC, as required.
2. Chemistry Technicians
 - a. Perform an operability check on all survey instruments prior to use.
 - b. Perform samples as directed by the Chemistry/Core Damage Assessment Coordinator.
 - c. Perform PASS preparatory actions and PASS actions in accordance with EIP-2-015, Post Accident Sampling Operations, as directed by the Chemistry/Core Damage Assessment Coordinator.
 - d. If the EOF is relocated, perform the duties of the Offsite Team Coordinator in the TSC, as required.

OSC SUPPORT PERSONNEL

SUBSEQUENT ACTIONS (cont'd)

3. Maintenance Personnel
 - a. Receive task and radiological briefing before going on assignment.
 - b. Ensure that a radio is provided for communications with the OSC Director/Manager.
 - c. Ensure that you have proper tools, equipment and safety measures before going on assignment.
 - d. Ensure that debriefing is conducted on return to OSC.
 - e. Ensure that Status Board is updated to reflect your current status.
 - f. Obtain tools and equipment from the emergency locker or from the tool room as necessary to complete task.
 - g. Perform an operability check on instruments prior to use.
 - h. If qualified, perform function of Fire Brigade member and Search and Rescue Team member as directed.
4. Administrative Personnel
 - a. Assist in log keeping as necessary.
 - b. Copy and distribute material as necessary.
 - c. Establish and maintain a manual accountability list, as directed.
 - d. Perform other duties as directed by the OSC Manager.
5. Operations Personnel
 - a. Assist the OSC teams on plant / operational matters, Fire Brigade, or Search and Rescue as directed.
6. Other personnel in the OSC perform duties as directed by the OSC Manager.

OSC SUPPORT PERSONNEL

RELOCATION

NOTE

This section is applicable if the OSC Director declares the OSC uninhabitable.

1. Relocate to the TSC conference room as directed.
2. Relocate logs, tools, instruments, and equipment as directed.

DEACTIVATION

1. When directed by the OSC Manager, deactivate the OSC.
2. Ensure that all documentation is forwarded to the OSC Manager.

TSC VENTILATION EMERGENCY MODE OPERATIONS

NOTE

During a LOCA, the TSC Ventilation System will automatically go into the emergency mode and proper system operation should be verified. For other emergency situations, the system will have to be manually placed in the emergency mode. Operation is identical during a LOCA or other emergency. SOP-0056 may also be used to shift TSC Ventilation System to the emergency mode.

- 1 AT HVL-PNL261 VTSC PANEL, VERIFY HVL-HS420, HVL-FN1 OUTSIDE AIR FAN IS PLACED TO AUTO.
- 2 AT VTSC PANEL, VERIFY HVL-MIC-414, EMERGENCY OUTSIDE AIR MOISTURE CONT. IS PLACED TO AUTO.
- 3 AT VTSC PANEL, VERIFY HVL-HS-421, AHU-1 START-STOP SWITCH IS PLACED TO START.
- 4 AT VTSC PANEL, PLACE HVL-HS-223, STOP-NORMAL-EMER. AHU-2 TO EMERGENCY AND VERIFY THE FOLLOWING:
 - 4.1 HVL-AOD-202, EMERGENCY OUTSIDE AIR opens.
 - 4.2 HVL-FN-7, EMERGENCY OUTSIDE AIR is running.
 - 4.3 HVL-FN-8, NORMAL EXHAUST AIR AIR FAN stops.
 - 4.4 HVL-AOD-208, NORMAL OUTSIDE AIR DAMPER closes.
 - 4.5 HVL-AOD 216, NORMAL EXHAUST AIR DAMPER POS. closes.
 - 4.6 HVL-AOD 218, EMER. EXHAUST AIR DAMPER opens.
 - 4.7 HVL-FN-9, EMER. EXHAUST AIR FAN, starts.

TSC VENTILATION EMERGENCY MODE OPERATIONS

NOTE

During a LOCA, the following step is not required.

- 5 AT VTSC PANEL, PLACE HVL-HS420, HVL-FN1 OUTSIDE AIR FAN IN THE RUN POSITION.
- 6 AT VTSC PANEL, VERIFY HVL-PDI-407, BUILDING PRESSURIZATION IS READING A POSITIVE PRESSURE IN THE TSC.
- 7 IF TSC PRESSURE IS NOT POSITIVE, THEN RAISE BUILDING PRESSURE BY PERFORMING ANY OF THE FOLLOWING:
 - Adjust HVL-PDC-407, BLDG. PRESSURIZATION CONTROL.
 - Place HVL-HS-406, TOILETS EXHAUST FAN Switch in the STOP position.
 - Place HVL-HS-422, EMERGENCY OUTSIDE AIR FAN to the MAN position.
- 8 CHECK THE FOLLOWING:
 - 8.1 HVL-FN1, OUTSIDE AIR FAN is running.
 - 8.2 HVL-AOD-411, EMERGENCY OUTSIDE AIR is open.
 - 8.3 HVL-AOD-408, LOCAL OUTSIDE AIR DAMPER is closed.

NOTE

HVL-AOD426, REMOTE OUTSIDE AIR DAMPER is operational but is isolated with a blank plate installed on the intake side of the ductwork to prevent airflow past the damper.

- 8.4 Verify HVL-HS-428, LOCAL-REMOTE EMER. OUTSIDE AIR selector switch is in LOCAL with the following damper indications:
 - 8.4.1. HVL-AOD-427, LOCAL AIR FILTER INLET is open.
 - 8.4.2. HVL-AOD-426, REMOTE OUTSIDE AIR DAMPER is closed.
- 8.5 HVL-AHU1, TSC AIR HANDLING UNIT is running.

TSC/OSC VIDEO LINK

A. MONITOR:

1. Using remote control, verify monitor powers up:
(If monitor does not come on, ensure master power is depressed.
If monitor still does not come on, replace batteries and/or verify
remote switch on the back of the TV is on.)
 - a. Line A button selects (remote) ceiling mount camera.
 - b. Line B button selects Video switcher.
2. Manual Operation, when remote control fails or is not used:
(If monitor is in standby, turn power off and then back on.)
 - a. The Main Control Key, when pressed, illuminates all control
keys and indicators on the front panel.
 - b. Press the Main Control Key again to extinguish them.

B. VIDEO SWITCHER: OSC LOCATION

1. Input #1 - Selects TSC Wolf Visualizer
#2 - Selects OSC Wolf Visualizer
#3 - Selects OSC ceiling mount camera
#4 - Vacant
2. BNC #1 - Connection for Wolf Visualizer video output #1 cable
3. BNC #2 - Connection for Wolf Visualizer video (switched)
output #2 cable

NOTE

Spare coaxial cable is in the Emergency Supply locker.

D. VISUALIZER SETUP

1. Verify arm is extended upward to its full length to minimize focus problems.
2. Video output #1 connects to BNC #1, located on Video Switcher.
3. Video (switched) output #2 connects to BNC #2, located on Video Switcher.
* Plug in under table.

TSC/OSC VIDEO LINK

4. Verify main power switch (on the back of the unit) is turned on. The power indicator on the remote control should be illuminated.
5. Verify power switch on the Wolf Visualizer remote control is (ON) = [1]. (Remote is located on the slanted portion of the Visualizer.)
6. Verify Visualizer control panel "Input" switch is on.

E. VISUALIZER AS AN OVERHEAD PROJECTOR

1. Place your subject material on the working surface.
2. Turn the lamp on to illuminate the object by pressing the "lamp on" button on the Wolf Visualizer remote. (Remote is located on the slanted portion of the Visualizer.) If lamp does not come on, rotate the lamp selector knob on the front of the Visualizer to energize the standby lamp.
3. Tilt the reflector head so that your object is illuminated.
4. Select the enlargement required with the ZOOM keys on the remote control.
5. Adjust the sharpness with the FOCUS keys on the remote control. Should the illuminated area seem hazy, use the light focus/slide-focus control located on the side of the unit.

F. VISUALIZER AS A VIDEO CAMERA TO SCAN SUBJECTS IN THE ROOM

1. Tilt the reflector head.
2. Turn off the light with the LIGHT key on the Wolf Visualizer remote control.

LOG FORM

(Typical)

Name _____

Date _____

Position _____

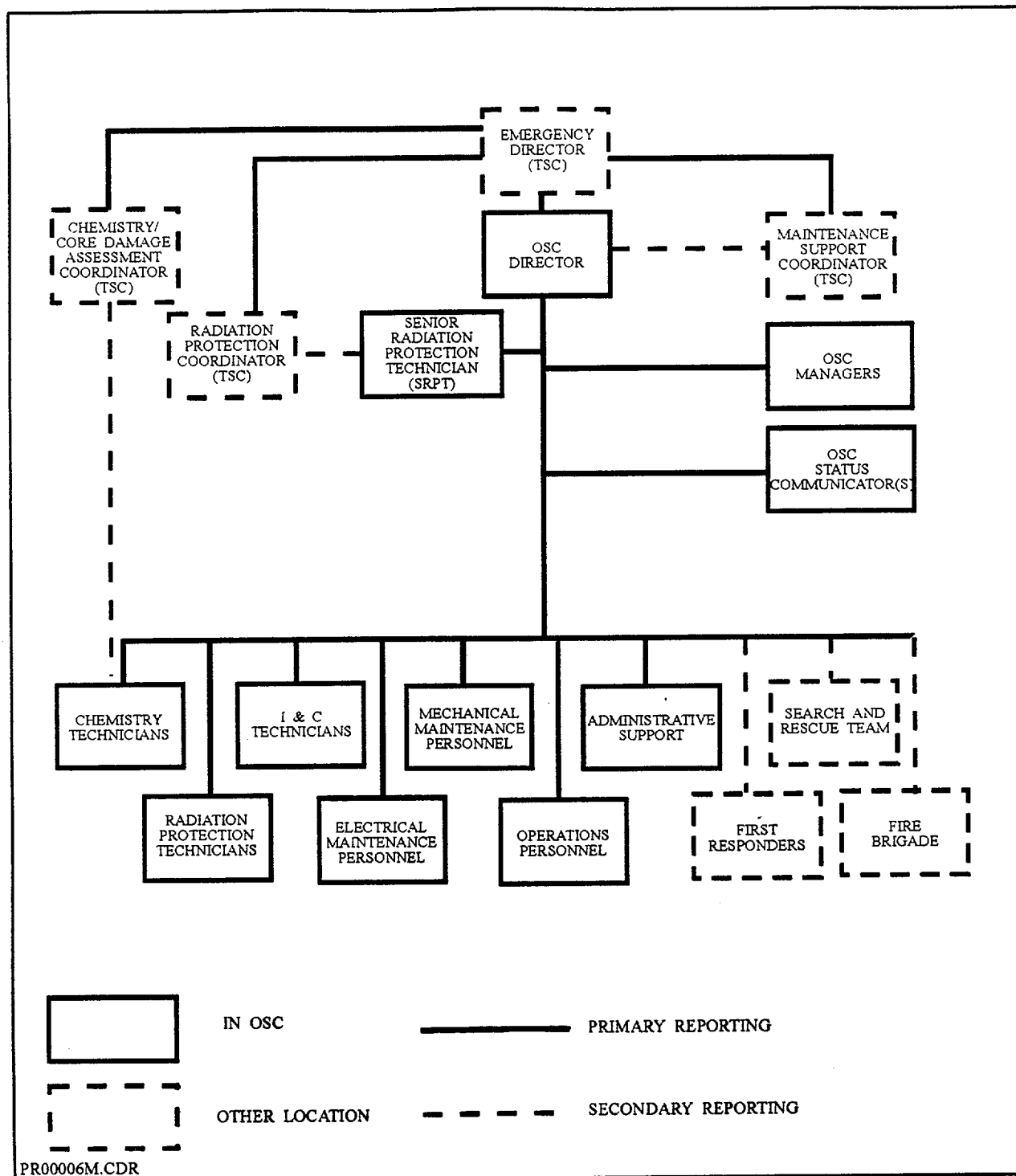
Page ____ of ____

TIME

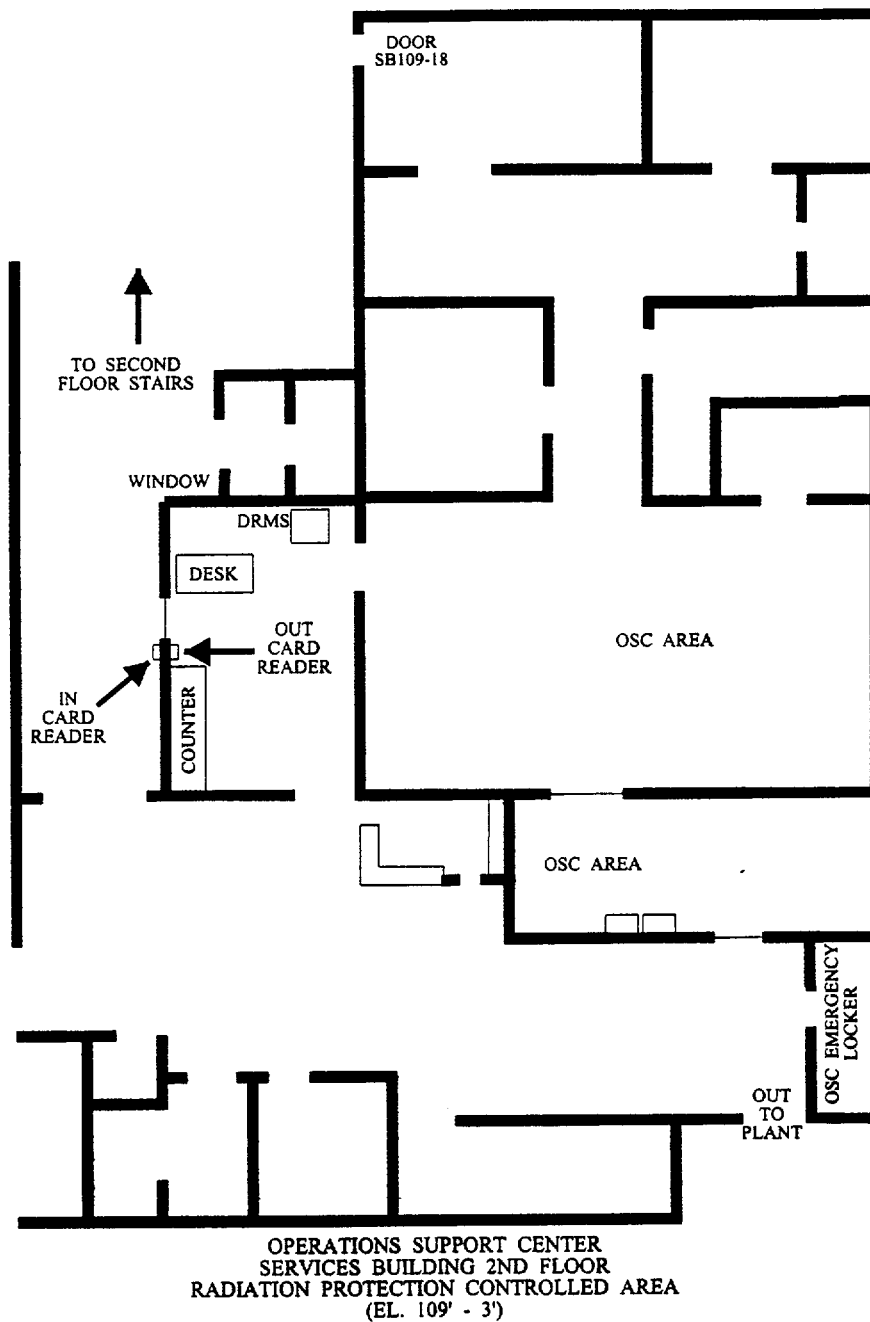
ACTIVITY

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook or ledger page.

OPERATIONS SUPPORT CENTER ORGANIZATION



OPERATIONS SUPPORT CENTER FLOOR PLAN
(TYPICAL)



PR00005M.CDR

**OSC WORK TEAM BRIEF GUIDELINE
(TYPICAL)**

THE WORK TEAM BRIEF MAY INCLUDE THE FOLLOWING ITEMS:

1. Brief on the task to be accomplished
2. Location of task and best route to get there.
3. Radiological conditions for the route and task location.
4. Radiological protection measures to be taken.
5. Other conditions (temperature, operating equipment in area, tagout required, spare parts, etc)
6. Heat stress (ADM-0068) requirements planned.
7. Procedures required and contingency if deviation required.
8. Necessary equipment, tools, instruments, etc identified and located.
9. Task role assignments made.
10. Brief on communications expectation and portable radio provided to team to communicate with the OSC.

NOTES:

OSC PERSONNEL CHECKLIST

OSC PERSONNEL CHECKLIST

NAME: _____ POSITION: _____

- Declared pregnant female Y / N (If Y, report to OSC Director.)

_____ Obtain TLD

_____ Logged on to RWP

_____ Verify Respirator/Fit Quals
_____ Date

_____ Verify SCBA /Fit Quals
_____ Date

_____ Obtain PD/Electronic Dosimetry

_____ Obtain Dose margin _____mr

_____ OSC Check-in and keycard in

_____ RP meter Qualified Y / N

_____ Multiskill Qualified (Y / N- Circle Crafts)
(Mech., Elec., I & C, Ops, RP, Chem., Env.)

_____ Heat Stress Evaluation complete, if required

_____ Flashlight Obtained (Field crews)

_____ Search and Rescue Training

_____ Confined Space Training

_____ Hazmat Training

Other qualifications: _____

TEAM WORK ORDER (TYPICAL)

Time Initiated: _____

TASK DESCRIPTION - OSC DIRECTOR/MANAGER

TASK LOCATION: _____ BLDG. _____ AREA _____ ELEVATION _____ TASK BRIEFING COMPLETE

Team Member Name/KCN	Dept.	*Dose Margin	Time Out	Time In	** Dose Received

RADIATION PROTECTION BRIEFING/DEBRIEFING -

_____ RP COVERAGE _____ SCBA/SPEAK EASY _____ DOSIMETRY
 _____ SURVEY DATA _____ SURVEY INSTRUMENTS. _____ TRAVEL PATH
 _____ PC'S/RESPIRATORS _____ SPARE SCBA BOTTLES _____ EQUIP. OPER. CHECK
 _____ *DOSE MARGIN _____ KI

DOSE LIMIT: _____ TURNBACK DOSE RATE: _____

RPT/KCN

** DEBRIEF TEAM - OBTAIN DOSE RECEIVED.

RPT/KCN

TASK STATUS

OSC DIRECTOR/MANAGER / KCN

DATE



ENTERGY

**RIVER BEND STATION
STATION SUPPORT MANUAL
*EMERGENCY IMPLEMENTING PROCEDURE**

****PERIODIC REVIEW OF THE EMERGENCY PLAN***

PROCEDURE NUMBER:	*EIP-2-101
REVISION NUMBER:	*18
Effective Date:	* <u>MAY 15 2002</u>

NOTE : SIGNATURES ARE ON FILE.
***INDEXING INFORMATION**

INFORMATION USE

RECEIVED
MAY 15 2002
DOCUMENT CONTROL

TABLE OF CHANGES

LETTER DESIGNATION TRACKING NUMBER	DETAILED DESCRIPTION OF CHANGES

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1 **PURPOSE**

This procedure provides instructions for the review of the Emergency Plan as required by 10CFR50, Appendix E, Section IV.G. and the Emergency Plan, Section 13.3.7.2

2 **REFERENCES**

- 2.1 Title 10, Code of Federal Regulations, Part 50, Section 47(b), and Appendix E
- 2.2 Title 10, Code of Federal Regulations, Part 50, Section 54(q)
- 2.3 Title 10, Code of Federal Regulations, Part 50, Section 54(t)
- 2.4 River Bend Station Emergency Plan [Updated Safety Analysis Report (USAR), Section 13.3]
- 2.5 Updated Safety Analysis Report (USAR), Section 13.4
- 2.6 Technical Requirements Manual (TRM) Section 5.8.2
- 2.7 River Bend Nuclear Procedure (0075) "10CFR50.54 Evaluations"

3 **DEFINITIONS**

None

4 **RESPONSIBILITIES**

- 4.1 Manager - Emergency Preparedness - ensures that the Emergency Plan is periodically reviewed as required by this procedure.

5 **GENERAL**

- 5.1 A review of the Emergency preparedness program is conducted by Quality Assurance. This review satisfies the requirements of 10CFR50.54(t) for an independent review by persons having no direct responsibility for the implementation of the program.

6 **PROCEDURE**

6.1 Emergency Plan Review

- 6.1.1. The Manager - Emergency Preparedness should designate an individual(s) to review and update the Emergency Plan as necessary at least once per calendar year.
- 6.1.2. The reviewer(s) assigned should:
1. Review the Plan for possible changes identified by the following:
 1. Written critiques, evaluations of exercises/drills and results of declared emergencies
 2. Changes in company, plant, or outside agency organizations
 3. Revisions to letters of agreement
 4. Changes in state or federal regulations, regulatory guidance, NRC inspection findings or audits
 5. Changes in state or local emergency plans
 6. Modifications to the plant or site which could affect emergency planning. This includes public use of property within the owner controlled area.
 7. Changes to Technical Specifications or the Technical Requirements Manual (TRM)
 8. Results of the independent review conducted by Quality Assurance
- 6.1.3. Document the review using Attachment 3, Emergency Plan Periodic Review Form.

- 6.1.4. Editorial changes as shown in Attachment 4, do not require immediate revision of the Emergency Plan.
1. Editorial changes may be withheld until the next revision required by non-editorial changes.
 2. An On-Site Safety Review Committee (OSRC) review is not required for editorial changes.
 3. Page format or paragraph format changes may be made and will not be considered a revision to the plan as long as content is not changed.
- 6.1.5. If changes are identified that are not editorial per Attachment 4:

NOTE

All pages of the Emergency Plan will be updated to incorporate the new revision number. Only pages marked with changes should be reviewed by the OSRC or, if applicable, sent to the NRC for approval.

1. Prepare a draft copy of the revised Emergency Plan and incorporate the changes plus any identified editorial changes. All changes are to be identified by sidebars in the right margin.
2. Evaluate the effect of the change on the Emergency Preparedness Program in accordance with RBNP-0075.
3. Document changes along with the justification for the change in the 50.54q evaluation. Attachment 1 may be used as a guide for format to attach to the 50.54q.
4. Obtain review and comments as necessary from departments / groups affected by the proposed changes to the Emergency Plan.
5. Resolve comments and present the proposed plan change and 50.54q to the OSRC for review.

NOTE

Any changes that do not decrease the effectiveness of the approved Emergency Plan and the plan, as changed, continues to meet the standards of 10CFR50.47(b) and the requirements of 10CFR50 Appendix E may be implemented without prior approval by the NRC.

6. If NRC approval is required prior to implementation, submit a request for approval in accordance with NMM procedure LI-106, *NRC CORRESPONDENCE*.
 7. Review the changes for impact on procedures, equipment or training and document the implementation date that the change will be effective on the submittal form.
 8. The Manager – Emergency Preparedness will approve and sign the Emergency Plan Revision Submittal Form after the OSRC review is complete or, if applicable, after NRC approval is received.
 9. Following Manager – Emergency Preparedness approval, send the revised Emergency Plan to the Administrative Services Group for distribution.
 10. Submit the Emergency Plan revision to the NRC within 30 days of the effective date as specified in 10CFR50, Part 50.54(q) and Appendix E and in accordance with procedure LI-106, *NRC CORRESPONDENCE*.
 11. If changes to the Emergency Implementing Procedures (EIPs) or Emergency Planning Procedures (EPPs) are warranted, initiate the applicable changes in accordance with EPP-2-100.
- 6.1.6. Ensure that the Administrative Services Group issues copies of the Emergency Plan revision to the Manager - Emergency Preparedness for distribution to the Louisiana Department of Environmental Quality, the Louisiana Office of Emergency Preparedness, the Mississippi Emergency Management Agency, and the five parish Emergency Management offices within the ten-mile Emergency Planning Zone.

6.2 10CFR50.54(t)

- 6.2.1. The Manager - Quality Assurance shall provide for a review of the Emergency Preparedness Program at least every 12 months, by persons who have no direct responsibility for implementation of the Emergency Preparedness Program.
- 6.2.2. The review shall include an evaluation for adequacy of interfaces with State and Local governments and of drills, exercises, capabilities and procedures.
- 6.2.3. The results, along with recommendations for improvements, shall be documented, reported to corporate and plant management, and retained for 5 years.
- 6.2.4. The portion of the review involving the evaluation for adequacy of interfaces with the State and Local governments shall be available to the applicable State and Local governments for their information and review.

6.3 Local support agencies

- 6.3.1. If revisions to the Emergency Plan affect the Plans or Procedures of local offsite support agencies (e.g. hospitals) the approved change should be provided to the affected agency promptly.

6.4 Training

- 6.4.1. The Manager - Emergency Preparedness should forward approved revisions of the Emergency Plan to the station Training Department so that changes can be incorporated into training and qualification programs.

DOCUMENTATION

- 7.1 Attachments that document the annual review of the Emergency Plan, 50.54q evaluations, and copies of changes to the Emergency Plan shall be maintained for a period of three years, unless a change decreases the effectiveness of the Emergency Plan. A change determined to decrease the effectiveness of the Emergency Plan that received NRC approval prior to implementation will be maintained for the life of the plant in accordance with 10CFR50.54(q).

EMERGENCY PLAN REVISION FORM (TYPICAL)

Comment No.	Page and Paragraph No.	Change	Justification

EMERGENCY PLAN REVISION SUBMITTAL FORM (TYPICAL)

Date _____

Reason for Revision:

Prepared by:

Preparer / /
 / KCN / Date

Review:

OSRC:

OSRC Chairman / / OSRC Meeting No:
 / KCN / Date

Approval:

*Manager - Emergency Preparedness/ / / Date:
 KCN / /

IMPLEMENTATION (EFFECTIVE) DATE: _____

EMERGENCY PLAN PERIODIC REVIEW FORM (TYPICAL)

REVIEW DATE: _____
(Start of Review)

Emergency Plan Revision No. _____

Place a check mark in the applicable box to indicate that the Emergency Plan has been reviewed and it has been determined that:

- ☐ The periodic review of the Emergency Plan has been completed and a revision is not required.
- ☐ The periodic review of the Emergency Plan has been completed and a revision is required however the required change(s) will not reduce the effectiveness of the Emergency Plan.
- ☐ The annual periodic review of the Emergency Plan has been completed and a revision is required that must be submitted to the NRC for approval prior to implementation.

Initiate a Condition Report (CR) if a deficiency is identified that represents

1. a potential reduction in the effectiveness of the Emergency Preparedness Program
- or
2. non-compliance with 10CFR50.47 or 10CFR50 Appendix E.

CR Number _____ (if applicable)

Review Completed by: _____ / _____ Date: _____
Reviewer Signature KCN

Approved by: _____ / _____ Date: _____
Manager - Emergency Preparedness KCN

EXAMPLE EDITORIAL CHANGES

The following list represents authorized editorial changes that may be made to the Emergency Plan without On-site Safety Review Committee review. All Emergency Plan changes require a technical review and the approval of the Manager - Emergency Preparedness.

Editorial Changes

1. Grammar and spelling errors
2. Incorrect Section and/or Attachment numbers
3. Incorrect sequence of steps numbers
4. Incorrect step and data numbers referenced in the procedure
5. Incorrect reference titles, reference numbers, reference revisions or addition/deletion of references
6. Incorrect page numbers
7. Pagination errors
8. Rewording / renumbering for clarification
9. Updates to organization titles provided the change does not result in a change to the job function or responsibility
10. Corrections to equipment designations or locations to be consistent with approved plant drawings, document, labels or procedure content
11. Correction to equipment operating instructions to match existing equipment
12. Corrections to the table of contents
13. Correction of titles, names, addresses or phone numbers of offsite agencies or support organizations.