



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

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

STP NUCLEAR OPERATING COMPANY  
Units 1 and 2  
Docket Nos. STN 50-498; STN 50-499  
Changes to Emergency Plan Implementing Procedure

In accordance with 10CFR50.4(b)(5) and 10CFR50, Appendix E, Section V, the STP Nuclear Operating Company hereby submits the attached revision of three (3) Emergency Plan Implementing Procedures.

If there are any questions regarding this matter, please contact Mr. Fred Puleo at (361) 972-8697 or myself at (361) 972-8053.

P. L. Serra  
Manager, Plant Protection

FJP/mk

Enclosure: Letter of Receipt  
Summary of Changes  
0ERP01-ZV-RE01, Recovery Operations, Revision 1  
0PGP03-ZT-0139, Emergency Preparedness Training Program, Revision 6  
0ERP01-ZV-TP02, Offsite Field Teams, Revision 8

A045

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**Summary of Changes for  
Recovery Operations  
0ERP01-ZV-RE01, Rev. 0**

This revision does not reduce the effectiveness nor change the intent of the procedure as described within the STPEGS Emergency Plan. Revision 1 is a General Revision that updates Revision 0, dated August 1991. All changes are considered enhancements.

These enhancements are:

1. Changed Procedure usage to N/A to comply with procedure OPGP05-ZV-0004, Emergency Plan Implementing Procedure Users Guide.
2. Conversion to Microsoft Word.
3. Rewording of the Recovery definition to match Recovery as defined in 0ERP01-ZV-IN01, Emergency Classification as per Condition Report 97-19089-2.
4. Added reference to OPGP05-ZV-0004, Emergency Plan Implementing Procedure Users Guide.

Other changes are as follows:

| Change No. | Change to Revision 0   | Reason  |
|------------|--|---|
| 1.         | Step 2.1 recovery criteria revised to match criteria given in Emergency Plan.  | Consistency   |
| 2.         | Rewrite of section 5.2 "Establish a recovery organization". Based on comments from the Dec. 8, 1999 Recovery Workshop, participants wanted an organization chart (provided as Attachment 1) and a brief description of responsibilities. Also, participants wanted the procedure to focus on the E-Plan requirements, vs. restart ("outage") activities.   | Recovery workshop participant suggestions. Incorporate detail found in section L "Recovery and Re-entry" of the Emergency Plan.   |
| 3.         | Added new 5.3 – announcement of transition to Recovery Phase.  | Not specified in current revision.  |
| 4.         | Section 5.5 (current 5.4)<br><br>Changed "Any activity which could result in a radiological release to the environment exceeding Technical Specifications . . ." to ". . . exceeding Unusual Event emergency action levels . . ."<br><br>Changed (in same sentence as above) ". . . shall be reviewed and approved by the State of Texas . . ." to ". . . shall be provided to the State of Texas . . ." | The Unusual Event emergency action level for radiological release is more widely understood in emergency planning.<br><br>Safe operation of the Units is non-delegable to the licensee. Approval wording is inappropriate and is deleted. |

**Summary of Changes for  
Recovery Operations  
0ERP01-ZV-RE01, Rev. 0**

| <b>Change No.</b> | <b>Change to Revision 0</b>                     | <b>Reason</b>                     |
|-------------------|---|-----------------------------------|
| 5.                | Added new 5.6 – termination from recovery phase | Not specified in current revision |
| 6.                | Added new Addendum 1.                           | Request of reviewers.             |

-END-

**Summary of Changes for  
Emergency Preparedness Training Program  
OPGP03-ZT-0139, Rev. 6**

This revision completes the actions of Condition Report 99-2716 (resultant from Quality Audit 98-14805), i.e., to add the provision that an Alarm Station Operator is exempt from course EPT-030, Quintron Console Operations and to add the new training requirements for the Duty Maintenance Supervisor and Chemical Analysis Technician. These changes support Revision 19 to the STPEGS Emergency Plan regarding fulfilling the Onsite Communicator and Radiation Protection protective measures positions.

| <b>Change No.</b> | <b>Change to Revision 5</b>   | <b>Reason</b>  |
|-------------------|---|--|
| 1.                | Section 2.1 - Added definition of annually.   | Annually is defined in section 4.4.1. Input from review and comment process requested definition added to this section also. |
| 2.                | Section 2.6 – changed “Subject Matter Expert: As defined” to “Subject Matter Expert: As referenced”.                      | Procedure OPGP03-ZA-0119 no longer defines, but does reference Subject Matter Experts.                                       |
| 3.                | Section 3.1 – changed “Manager, Emergency Response” to “Supervisor, Emergency Response”                                   | Agreement with Emergency Plan  |
| 4.                | Section 3.1.1 – deleted listing of courses that the Supervisor, Emergency Response provides development and training for. | Redundant to section 3.2.1   |
| 5.                | Added 3.1.5 Severe Accident Management Guidelines Training as a responsibility of the Supervisor, Emergency Response      | Current business practice  |
| 6.                | 3.2 Changed Nuclear Training Department to Training Department  | Current organizational title   |
| 7.                | 3.2.1.5 Added course EPT075 as a responsibility of Training Department  | Current business practice  |
| 8.                | 3.2.6 Changed “NTD” to “Training Department”. Changed “Training Requests” to “Condition Reports”.                         | Current organizational title<br>Current business practice  |
| 9.                | 3.2.8 Changed “Notifying the Manager, Emergency Response” to “Notifying the Supervisor, Emergency Response”.              | Agreement with Emergency Plan.   |
| 10.               | 3.4 Changed “MIC Director” to “JIC Director”  | Agreement with Emergency Plan  |
| 11.               | Added 4.4.2.5 and 4.4.2.6 to allow controllers, evaluators, coaches or mentors to   | Agreement with Emergency Plan  |

**Summary of Changes for  
Emergency Preparedness Training Program  
OPGP03-ZT-0139, Rev. 6**

| Change No. | Change to Revision 5  | Reason  |
|------------|---|---|
|            | receive requalification credit.   |   |
| 12.        | 4.5.2 Reworded to delete the requirement that SAMG Evaluators and Decision Makers require course SMG001 – Self Study Module.  | SMG001 Self-Study Module ineffective. Necessary information incorporated into SMG002 Classroom Training. All SAMG personnel required to take SAMG Classroom Training.   |
| 13.        | 4.6.2 Changed to allow SMG202 Requal Training to be taken every three years vs. SMG002 Initial Training.  | Refresher training is appropriate, not a repeat of the initial course.  |
| 14.        | 4.9.4 Changed Manager, Emergency Response to Supervisor, Emergency Response   | Agreement with Emergency Plan   |
| 15.        | Addendum 1 – Added course EPT075, RPT100, and Certifications 3226, 3564 and 3567. All other changes are to spell out (vs. abbreviate) positions.  | New courses or certifications mentioned in procedure. Additional clarity.   |
| 16.        | Addendum 2 – Deleted NTD047 as an alternate course number for FFD001 in opening paragraphs for each facility.   | NTD047 course number is retired.  |
| 17.        | <p>Addendum 2</p> <p><u>Emergency Operations Facility Positions</u></p> <p>a. SMG001 SAMG Self-Study module deleted as a requirement for all personnel.</p> <p>b. GET-III, Respirator Physical and Respirator Fit Test deleted as a requirement for Rad Van personnel.</p> <p>c. EPT-011 Emergency Communicator training added as a requirement for System Status Evaluator</p> | <p>a. Pertinent information incorporated into SMG002 Classroom Training</p> <p>b. Rad Van personnel do not enter airborne contamination areas.</p> <p>c. System Status Evaluator provides input to Offsite Agency Notification Message Form when Alternate Emergency Operations Facility is activated</p> |

**Summary of Changes for  
Emergency Preparedness Training Program  
0PGP03-ZT-0139, Rev. 6**

| Change No. | Change to Revision 5  | Reason  |
|------------|---|---|
| 18.        | Addendum 2, Technical Support Center Positions, SMG001 SAMG Self-Study module deleted as a requirement for all personnel.   | Pertinent information incorporated into SMG002 Classroom Training   |
| 19.        | <p>Addendum 2</p> <p><u>Operations Support Center Positions</u></p> <p>a. EPT-444 added as a substitute course for EPT-436 for position Operations Support Center Coordinator</p> <p>b. Added #11, Material Handler as Operations Support Center position.</p>  | <p>a. Content of courses EPT-436 and 444 are identical</p> <p>b. Clarifies that Material Handler respirator quals are needed for Material Handler position upon activation of the Operations Support Center.</p>  |
| 20.        | <p>Addendum 2</p> <p><u>Control Room / Onshift Organization Positions</u></p> <p>a. Rewording of opening paragraph for clarity. Specify that operations respirator qualifications are needed only for licensed personnel, fire brigade and safe shutdown watch personnel.</p> <p>b. Added statement "Qualified Alarm Station Operators filling the Onsite Communicator position do not require EPT-030."</p> <p>c. Added statement that "IF the Duty Maintenance Supervisor does NOT have</p> | <p>a. Emergency management function would be transferred to the other Unit Control Room should the affected Unit Control Room become uninhabitable.</p> <p>b. EPT-030 is Quintron Console Operation. Alarm Station Operators use the Quintron Console in day to day security operations.</p> <p>c. Current business practice. Provides scheduling flexibility and</p> |

**Summary of Changes for  
Emergency Preparedness Training Program  
OPGP03-ZT-0139, Rev. 6**

| <b>Change No.</b> | <b>Change to Revision 5</b>   | <b>Reason</b>  |
|-------------------|---|--|
|                   | <p>course credit for EPT-075, THEN EITHER the 2<sup>nd</sup> Mechanical Maintenance OR 2<sup>nd</sup> I&amp;C Maintenance craft person on shift SHALL have course credit for EPT-075.”</p> <p>d. Added course EPT-075 as a requirement for Duty Maintenance Supervisor.</p> <p>e. New position, Chemistry Technician (RP Protective Measures). Added course RPT-100 and certifications 3564 and 3567 as a requirement for Chemistry Technician RP Protective Measures.</p> <p>f. Breakout Chemistry Technician. Add cert 3226.</p> <p>g. Breakout State/County Communicator</p> | <p>maintains commitments in the Emergency Plan.</p> <p>d. Meet Emergency Plan table C-1 minimum staffing functions.</p> <p>e. Meet Emergency Plan table C-1 minimum staffing functions.</p> <p>f. Special case of Chemistry Technician NOT filling Protective Measures position.</p> <p>g. Special case of Plant Operator that does not require respiratory qualification.</p> |
| 21.               | Addendum 2, Joint Information Center, Changed Media Information Center to Joint Information Center.   | Current facility name.   |

-END-

**Summary of Changes for  
Offsite Field Teams  
0ERP01-ZV-TP02 Rev 8**

This revision does not reduce the effectiveness nor change the intent of the procedure as described within the Emergency Plan.

- Changed Procedure usage to N/A to comply with procedure 0PGP05-ZV-0004, Emergency Plan Implementing Procedure Users Guide.
- Removed 36 BRC/State respirators w/filters.
- Revised Addendum 6 Sample Area Map, added GPS data.
- Revised Form 2, Sample Analysis Calculation Form, the formulas were not clear.

|   |  |                       |            |                            |                          |
|---|--|-----------------------|------------|----------------------------|--------------------------|
| O:\PROCEDURES\APPROVED\ERP01\OZVRE01.01x<br>Effective Date: 07/31/00<br>Print Time / Date: 8:20 AM 06/28/00 |  | <b>OERP01-ZV-RE01</b> |            | <b>Rev. 1</b><br>(General) | Page 1 of 7              |
| <b>Recovery Operations</b>  |  |                       |            |                            |                          |
| Quality   |  | Non Safety-Related    | Usage: N/A |                            | Effective Date: 07/31/00 |
| Leo Meier   |  | N/A                   | N/A        |                            | Emergency Response       |
| PREPARER  |  | TECHNICAL             | USER       |                            | COGNIZANT ORGANIZATION   |

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**Recovery Operations****1.0 Purpose and Scope**

- 1.1 This procedure provides guidance for establishing recovery operations to return the plant to a normal operating condition following a declared emergency.
- 1.2 This procedure implements the requirements of the South Texas Project Electric Generating Station (STPEGS) Emergency Plan specific to recovery.

**2.0 Definitions**

- 2.1 The recovery phase can be entered when all the following conditions are met:
  - 2.1.1 The emergency conditions no longer exist and the plant is in a stable, shutdown, and safe condition.
  - 2.1.2 The potential for uncontrolled releases of radioactive material to the environment no longer exists.
  - 2.1.3 Major repairs, if required, have been identified in order to return the plant to operation.
  - 2.1.4 If the event was either a Site Area Emergency or General Emergency, concurrence from the NRC, State, and County has been obtained.

**3.0 Precautions and Limitations**

- 3.1 If a Site Area or General Emergency was declared, concurrence from the NRC, State of Texas, and Matagorda County is required before declaring recovery.

**4.0 Responsibilities**

- 4.1 The Emergency Director is responsible for declaring recovery. The Emergency Director, or designee, will function as the Recovery Manager.
- 4.2 The Recovery Manager is responsible for implementing this procedure and returning the plant to a re-start configuration.

## Recovery Operations

## 5.0 Procedure

5.1 Establish a prioritized list of activities and tasks.

5.1.1 The Deputy EOF Director will collect completed 0ERP01-ZV-RE02-01, "Corrective Action Items" from the EOF organization and prioritize the lists.

5.1.2 The Assistant TSC Manager will collect completed 0ERP01-ZV-RE02-01, "Corrective Actions Items Lists" from the TSC, OSC, and Control Room and prioritize the lists.

5.1.3 Conduct a meeting with key personnel from the EOF and TSC to review the lists and determine the necessary work scopes needed to return the plant to normal operation.

NOTE

Positions listed below are provided as examples of functional responsibilities. Positions do not have to be filled with ERO position incumbents.

5.2 Establish a recovery organization.

5.2.1 The recovery organization should be established based on an outage organization concept. The key elements of the recovery organization should be based on the necessary work scopes to be performed.

5.2.2 Addendum 1 "Recovery Organization" may be used as a framework for the recovery organization.

5.2.2.1 The Recovery Manager is responsible for implementing this procedure and returning the plant to a re-start configuration.

5.2.2.2 The Licensing Director shall maintain the STPNOC/NRC interface and facilitate information requests by NRC.

5.2.2.3 STPNOC Legal Counsel shall report to the Recovery Manager and perform duties as assigned.

5.2.2.4 The Restart Director shall assemble and manage the forced outage team. The restart organization should resemble an STPNOC normal outage organization and focus on returning the units to ready-for-restart status.

**Recovery Operations**

- 5.2.2.5 The Support Organization Director shall manage the various offsite liaisons and facilitate requests for information from offsite entities.
- 5.2.2.6 The JIC Director shall manage the STPNOC/media interface and facilitate requests for information from the media.
- 5.2.2.7 The Technical Manager shall be responsible for:
- Logical evaluation of the cause and effect of the emergency;
  - Assisting the Restart Director in planning necessary activities to place the station in a configuration ready for restart and in the development of radiological controls for re-entry into affected areas.
- 5.2.2.8 The Radiological Director shall be responsible for:
- Analysis of the exposures to station personnel;
  - Analysis of effluent and environmental data to quantify offsite consequences, if any; and
  - Assisting the Recovery Manager in assembly of the Recovery Organization needed to expediently implement recovery.
- 5.2.3 Personnel in the Emergency Response Organization that are not assigned to the recovery organization will be released to their normal job functions. Additional personnel outside the Emergency Response Organization will supplement the recovery organization, as needed.
- 5.2.4 The NRC, State of Texas, and Matagorda County shall be informed of the formation of the recovery organization.
- 5.3 WHEN requirements for entry into recovery phase are met, THEN announce transition to recovery phase.
- 5.3.1 Issue an Offsite Agency Notification Message Form informing offsite of entry into recovery.
- 5.3.2 Any recommendations to relax protective measures for the public shall be reviewed and approved by the State of Texas, Matagorda County, and the NRC.

**Recovery Operations**

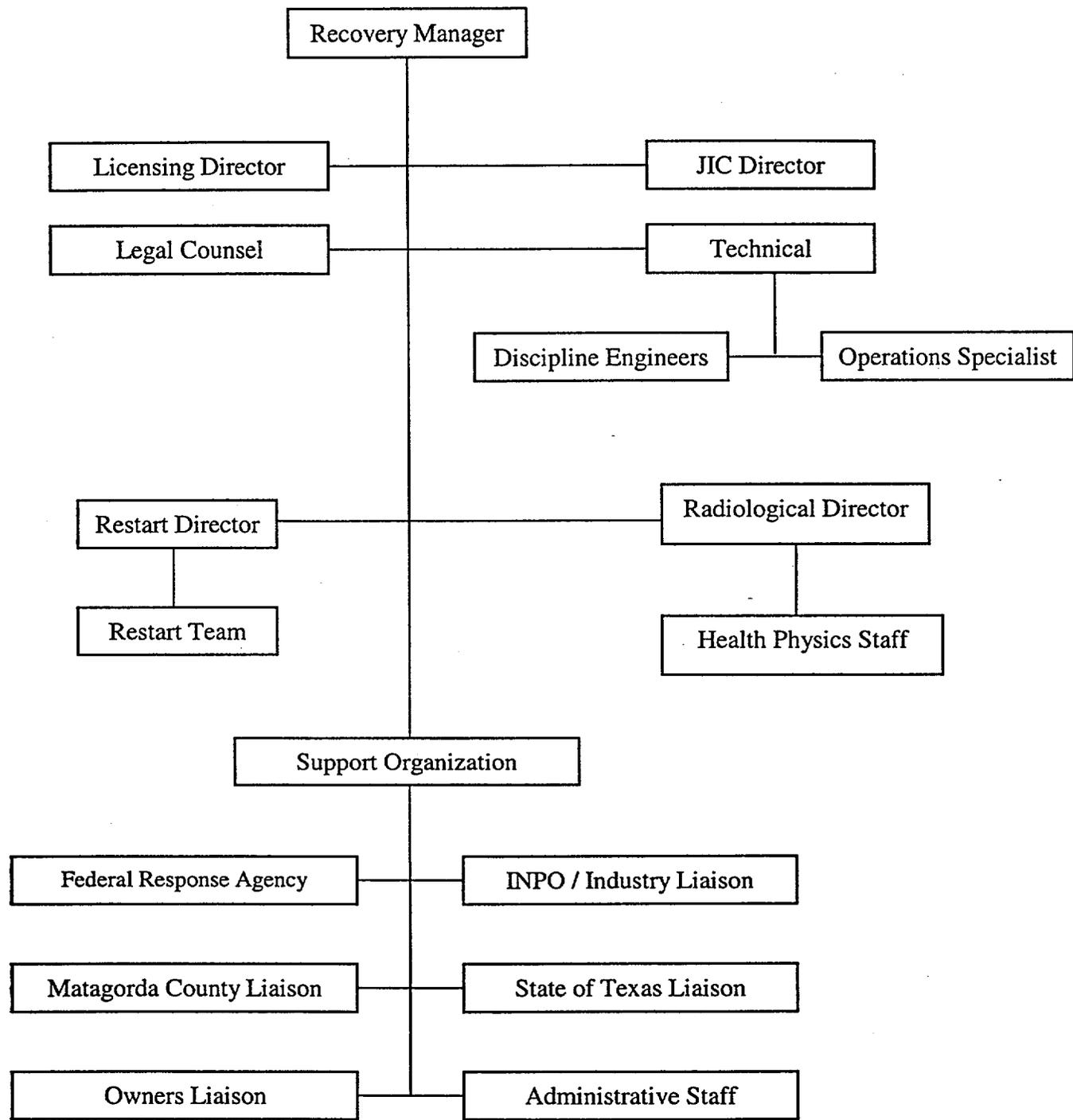
- 5.4 Establish procedures for the recovery effort.
- 5.4.1 All normal plant procedures will be followed unless specifically superseded by recovery procedures. Recovery procedures are temporary procedures and will be deleted upon completion of the recovery effort.
- 5.4.2 All recovery procedures will be developed, approved, and implemented in accordance with OPGP03-ZA-0002, "Plant Procedures". Special procedure approval processes can be established by the Recovery Manager with approval of the Plant Operations Review Committee (PORC).
- 5.4.3 If requested by the NRC, all recovery procedures will be reviewed and approved by the NRC prior to implementation.
- 5.5 Initiate Special Radiological Considerations
- 5.5.1 A survey of the plant shall be conducted to determine special radiological hazards and the extent of contamination problems. Special re-entry requirements into the plant and plant areas shall be determined and implemented prior to re-entry.
- 5.5.2 A description of any activity which could result in a radiological release to the environment exceeding Unusual Event emergency action levels shall be provided to the State of Texas, Matagorda County, and the NRC.
- 5.5.3 Conduct a detailed analysis of exposures to station personnel.
- 5.5.4 Assistance in determining the extent of the radiological release and the estimated total population exposure shall be offered to the State of Texas and Matagorda County.
- 5.6 The Recovery Phase may be terminated when any of the following items are met:
- 5.6.1 The emergency condition no longer exists and the plant is ready to return to normal operations, OR
- 5.6.2 Repair activities are minor, the reactor is subcritical, and the plant is in a stable shutdown mode (at least Mode 3).
- 5.7 Issue an Offsite Agency Notification Message Form informing offsite agencies of event termination.

**Recovery Operations****6.0** References

- 6.1 STPEGS Emergency Plan
- 6.2 OPGP03-ZA-0002, Plant Procedures
- 6.3 OPGP05-ZV-0004, Emergency Plan Implementing Procedure Users Guide
- 6.4 0ERP01-ZV-IN02, Notifications to Offsite Agencies
- 6.5 0ERP01-ZV-RE02, Documentation

**7.0** Support Documents

Addendum 1- Recovery Organization



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| <b>Emergency Preparedness Training Program</b>  |                    |                       |                             |              |
| Quality   | Non Safety-Related | Usage: Available      | Effective Date: 07/11/00    |              |
| R. L. Meier   | N/A                | N/A                   | Emergency Response Division |              |
| PREPARER  | TECHNICAL          | USER                  | COGNIZANT ORGANIZATION      |              |

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**Emergency Preparedness Training Program****1.0 Purpose and Scope****1.1 Purpose**

This procedure establishes the training and qualification requirements associated with the Emergency Response Organization at the South Texas Project Electric Generating Station (STPEGS).

**1.2 Scope**

This procedure applies to training and qualification activities conducted for onsite and offsite personnel assigned to the Emergency Response Organization (ERO). The associated onsite position titles appear in Addendum 2 and the offsite positions in Form 1.

**2.0 Definitions**

2.1 ANNUALLY: 12 ± 3 months

2.2 COMBINED FUNCTIONAL DRILL: As defined in Ref. 5.14, Emergency Response Exercises and Drills.

2.3 EMERGENCY PREPAREDNESS TRAINING WORKSHOP: Functional group training provided to ERO members to enhance skills.

2.4 OFFSITE: Outside the confines of the Owner Controlled Area boundaries.

2.5 ONSITE: Within the confines of the Owner Controlled Area boundaries.

2.6 SEVERE ACCIDENT, EVALUATOR, DECISION MAKER, and IMPLEMENTOR: As defined in Ref. 5.16, Severe Accident Management.

2.7 SUBJECT MATTER EXPERT: As referenced in Ref. 5.8, Management Oversight of Training Programs.

2.8 TABLE-TOP DRILL: A walkthrough training drill conducted for one or more Emergency Response Facilities or designated functional groups to enhance teamwork and individual skills.

**Emergency Preparedness Training Program****3.0 Responsibilities**

- 3.1 The Supervisor, Emergency Response Division, has the overall responsibility for the implementation and management of the STPEGS emergency preparedness program. The following activities are done under the oversight of the Supervisor, Emergency Response Division:
- 3.1.1 Provide development and training for all Emergency Preparedness Training requirements; except those courses given in 3.2.1 below.
  - 3.1.2 Scheduling ERO training activities and notifying the targeted audience/students.
  - 3.1.3 Maintain management oversight of the Emergency Preparedness Training Program in accordance with OPGP03-ZA-0119, "Management Oversight of Training Programs."
  - 3.1.4 Activating an Emergency Preparedness Training Technical Advisory Council when necessary.
  - 3.1.5 Severe Accident Management Guidelines training for ERO personnel.
- 3.2 The Manager, Training Department is responsible for supporting the STPEGS emergency preparedness program through the conduct of specialty and prerequisite onsite training programs. The following activities are done under the oversight of the Manager, Training Department:
- 3.2.1 Provide training and re-training (as required) for the following courses:
    - 3.2.1.1 EPT-017 - ERFDADS (Licensed Operator Training, only)
    - 3.2.1.2 EPT-019 - RM-21/Stampede (Dose Assessment)
    - 3.2.1.3 EPT-031 - Offsite Field Team
    - 3.2.1.4 EPT-060 - On-Shift Dose Assessment and PARs
    - 3.2.1.5 EPT-075 - Duty Maintenance Supervisor Protective Actions (RP)
    - 3.2.1.6 General Employee Training
  - 3.2.2 Report training attendance for the above training courses when scheduled.
  - 3.2.3 Maintain lesson plan files for the Emergency Response Division as requested.
  - 3.2.4 Ensure availability of computerized training databases.
  - 3.2.5 Provide classroom space for scheduled training provided by the Emergency Response Division.

**Emergency Preparedness Training Program**

- 3.2.6 Provide appropriate Training Department personnel for drill scenario development, drill observers, drill controllers, etc. when scheduled through the yearly training schedule or through Condition Reports.
- 3.2.7 Facilitate drills and exercises through the use of the simulator.
- 3.2.8 Notifying the Supervisor, Emergency Response, when a student fails an Emergency Preparedness Training course presented by the Training Department.
- 3.3 The Manager, Plant Protection Department is responsible for:
  - 3.3.1 Providing required emergency preparedness initial and re-training courses to the plant security force.
  - 3.3.2 Providing an instructor for EPT-040 Safeguards Contingency Events when required.
  - 3.3.3 Ensuring Emergency Medical Technicians (EMTs) maintain necessary qualifications for EMT status.
  - 3.3.4 Ensuring Emergency Care Attendants (ECA's) maintain necessary qualifications for ECA status.
- 3.4 Emergency Response Facility leaders (OSC Coordinator, TSC Manager, EOF Director, JIC Director) are responsible for ensuring their Emergency Response Organization Facility personnel attend scheduled Emergency Preparedness Training.
- 4.0 Procedure
  - 4.1 Selection for Emergency Preparedness Training Program
    - 4.1.1 Initial assignment of onsite members of the ERO shall be made in accordance with Ref. 5.15.
    - 4.1.2 Offsite personnel assignments are in accordance with their respective titles as members of local and state government, law enforcement, medical, and mutual aid.

## Emergency Preparedness Training Program

## 4.2 General Employee Training

- 4.2.1 Personnel badged for unescorted access to the Protected Area shall receive training in emergency preparedness as part of the General Employee Training Program described in Ref. 5.13.

## 4.3 Onsite Emergency Preparedness Initial Training

NOTE

Addendum 4, "Substitution/History" is provided as an aid to audit personnel to provide background on the Emergency Preparedness Training Program.

- 4.3.1 ERO position candidates, prior to assignment to an Emergency Response Organization position, shall complete initial training indicated for their respective position listed in Addendum 2.
- 4.3.2 Emergency Preparedness Training Program lesson plans are developed using applicable guidance from the systematic approach to training process.
- 4.3.3 Training objectives shall be used to develop evaluation items for written and performance evaluations. Ref. 5.9 may be used as guidance.

## 4.4 Onsite Annual Retraining

Each ERO member shall:

- 4.4.1 Maintain GET and FFD requirements per Addendum 2 AND,
- 4.4.1.1 Annually ( $12 \pm 3$  months), complete classroom refresher training on courses identified in Addendum 1 as requiring annual requalification and pass a comprehensive written examination, (EPT 20X, or 21X) OR

NOTE

Except as noted in 4.4.3 and 4.4.4, EPT-250 Requal credit is credit for all annual Emergency Preparedness Training requirements. For example, if a Dose Assessment Specialist has an EPT-250 credit, then that individual is current on all items for his position as given in Addendum 2.

- 4.4.1.2 Annually ( $12 \pm 3$  months), receive EPT-250 requalification credit. Criteria for awarding EPT-250 requalification are described in Section 4.4.2.

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- 4.4.2 EPT-250 credit may be awarded when any of the following conditions are met:
- 4.4.2.1 An ERO member, during a Combined Functional Drill, table-top or functional group workshop, *participates as a player in their position with their team*. Included are personnel who participate in a drill conducted in accordance with OPGP03-ZF-0002, "Fire Brigade Drills." Any performance errors are corrected with on the spot correction (as appropriate) from either a controller or instructor.
  - 4.4.2.2 An ERO member, during a Combined Functional Drill, table-top or functional group workshop, *participates as a player in their position, with a different team than the member is assigned*, AND the member has notified a drill controller or instructor. This notification will prevent the members name from being deleted from the attendance record. Any performance errors are corrected with on the spot correction (as appropriate) from either a controller or instructor.
  - 4.4.2.3 An ERO member, during a Combined Functional Drill, table-top or functional group workshop, *observes their counterpart in performance of position duties, receives turnover and then participates as a player* under the tutelage of the counterpart AND the member has notified a drill controller or instructor. This notification will prevent the members name from being deleted from the attendance record. Any performance errors are corrected with on the spot correction (as appropriate) from either a controller or instructor.
  - 4.4.2.4 An ERO member, during a Combined Functional Drill, table-top or functional group workshop, observes an ERO member in performance of position duties which are similar to their own (e.g., EOF Radiological Director with the TSC Radiological Manager) receives turnover and then participates as a player under tutelage AND the member has received prior approval from the Supervisor, Emergency Response AND has notified a drill controller or instructor. Any performance errors are corrected with on the spot correction (as appropriate) from either a controller or instructor.
  - 4.4.2.5 IF an ERO member is controlling, evaluating, coaching or mentoring his/her position during a drill conducted in accordance with Ref. 5.14, Emergency Response Exercises and Drills, THEN the individual may receive requalification credit.

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- 4.4.3 Personnel filling the position of Acting Radiological Manager shall receive dose assessment training annually.
    - 4.4.3.1 Annual requalification credit for on-shift dose assessment may be awarded to an individual who has participated as the Acting Radiological Manager during Control Room simulator drills which encompass on-shift prompt dose assessment.
  - 4.4.4 Personnel filling the position of Control Room State/County Communicator (i.e. Plant Operator) shall receive offsite notification training annually (EPT-221, Control Room Emergency Communicator Requalification).
  - 4.4.5 EPT-350, "Severe Accident Management Requalification," shall be awarded to the participants of a drill in which entry into the Severe Accident Management Guidelines is an objective.
- 4.5 Severe Accident Management Guidelines (SAMG) Initial Training
- 4.5.1 Implementor, Evaluator, and Decision Maker candidates shall complete the initial training indicated in Addendum 2 for their Emergency Response Organization position (course numbers EPT-001 through EPT-099) prior to assuming shift or prior to placement on the Emergency Response Organization Roster.
  - 4.5.2 In addition to the initial Emergency Response Organization training requirements indicated above, Implementors, Decision Makers and Evaluators shall complete SMG002, "Severe Accident Management Guidelines Classroom Training".
    - 4.5.2.1 Candidates shall complete SMG-002, "Severe Accident Management Guidelines Classroom Training" prior to assuming shift or prior to placement on the Emergency Response Organization roster.

**Emergency Preparedness Training Program**

- 4.6 Severe Accident Management Guidelines (SAMG) Continuing Training
- 4.6.1 Each Implementor, Evaluator and Decision Maker shall participate in a Combined Functional Drill, table-top or functional group workshop specifically addressing SAMG implementation every three years. Drills will be developed and conducted in accordance with OPGP05-ZV-0001, "Emergency Response Exercise and Drills."
- 4.6.2 If the requirements of 4.6.1 can not be met, then each Implementor, Evaluator and Decision Maker shall complete SMG-202, "Severe Accident Management Guidelines Classroom Requalification Training" every three years.
- 4.7 Offsite Emergency Preparedness Training and Retraining
- 4.7.1 Training for hospital personnel, ambulance/rescue, police and fire departments shall include the procedures for notification, basic radiation protection, and their expected roles. For those local service support organizations who will enter the site, training shall also include site access procedures and the identity (by position and title) of the individual in the onsite emergency organization who will control the organization's support activities.
- 4.7.2 Initial training and retraining shall be offered and/or conducted for personnel with emergency responsibilities at least annually and at times as actual response, drill and exercise critiques may indicate.
- 4.7.3 Training and annual retraining shall be scheduled and tracked each calendar year, using a method similar to the information provided as Form 1. Variations to training schedules are permissible with the approval of the Supervisor, Emergency Response.
- 4.8 Additional Training (SPR 933335)
- 4.8.1 Additional training may be required (e.g. as a result of an identified weakness during a drill) in addition to the training identified on the Master Integrated Training Schedule. ERO personnel shall be notified by either their facility leader, supervisor, or by the Emergency Response Division and scheduled for training.
- 4.8.2 ERO personnel who miss scheduled training shall contact the Emergency Response Division to obtain a schedule for make-up training. The schedule should be provided by either their facility leader or by the Emergency Response Division.
- 4.8.3 Schedules for training should provide a minimum of two working weeks advance notice for those personnel who are to receive the training.

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## 4.9 Onsite Trainee Evaluation

- 4.9.1 Evaluation criteria for written and practical examinations shall be based on objectives.
- 4.9.2 Successful completion of initial and classroom requalification training requires a grade of at least 70% on written examinations.
- 4.9.3 Examination failures shall be cause for removal from the ERO Roster until counseling, remediation and successful reexamination can be accomplished.
- 4.9.4 Examination failures shall be reported by the instructor to the Supervisor, Emergency Response.

## 4.10 Instructor Qualification

- 4.10.1 Instructors who present Emergency Preparedness Training courses which include a formal examination shall be certified in accordance with Ref. 5.12.
- 4.10.2 Subject Matter Experts, that have been approved by the Supervisor, Emergency Response, may be used to conduct workshops or tabletop drills.

## 4.11 Drill and Exercise Controllers and Evaluators

- 4.11.1 Drill and Exercise Instructors, Controllers and Evaluators for Levels 1, 2, or 3 drills/exercises shall be qualified in accordance with Ref. 5.14.

## 4.12 All training, including exercises, shall provide for formal critiques in order to identify weak or deficient areas that need correction. Recurring courses (e.g. EPT-203) shall be critiqued quarterly.

- 4.12.1 For classroom training, this may be accomplished in accordance with OPGP03-ZA-0123, Implementation of Training Programs.

## 5.0 References

- 5.1 10CFR50, Appendix E
- 5.2 ANSI/ANS 3.7.3, 1979, Radiological Emergency Response Exercises for Nuclear Power Plants
- 5.3 American Nuclear Insurers Mutual Atomic Energy Liability Underwriters Inspection Criteria section 2.12
- 5.4 NRC TI 2515/55, Emergency Response Implementation Appraisal Program

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- 5.5 NUREG 0654/FEMA REP-1; Section 0, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Response in Support of Nuclear Power Plants
  - 5.6 INPO Good Practice EP-801 (Rev-01), April 1991, (INPO 85-014, Rev-01)
  - 5.7 STPEGS Emergency Plan, Section M
  - 5.8 OPGP03-ZA-0119, Management Oversight of Training Programs
  - 5.9 OPGP03-ZA-0121, Design of Training Programs
  - 5.10 OPGP03-ZA-0123, Implementation of Training Programs
  - 5.11 OPGP03-ZF-0002, Fire Brigade Drills
  - 5.12 OPGP03-ZT-0130, Instructor Training and Qualification
  - 5.13 OPGP03-ZT-0133, General Employee Training Program
  - 5.14 OPGP05-ZV-0001, Emergency Response Exercise and Drills
  - 5.15 OPGP05-ZV-0003, Emergency Response Organization
  - 5.16 OERP01-ZV-TP03, Severe Accident Management
- 6.0 Documentation
- 6.1 Completed ERO training documentation shall be delivered to Records Management for Training Records Data System data entry and RMS receiving.
- 7.0 Support Documents
- 7.1 Addendum 1 - Emergency Preparedness Training and Retraining Course Numbers
  - 7.2 Addendum 2 - Station Integrated Position Training Matrix
  - 7.3 Addendum 3 - Offsite Emergency Preparedness Course Numbers
  - 7.4 Addendum 4 - Substitution/History
  - 7.5 Form 1 - Offsite Training Matrix Schedule (Typical)

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NOTE: Requalification Course numbers are 200 series.

\*If EPT-250 is not current, then these courses require annual re-training.

|         |   |
|---------|---|
| EPT-001 | Emergency Direction *   |
| EPT-003 | Emergency Support *   |
| EPT-011 | Emergency Communicator *  |
| EPT-017 | ERFDADS   |
| EPT-019 | RM-21/STAMPEDE (Dose Assessment) *  |
| EPT-030 | Quintron Console  |
| EPT-031 | Offsite Field Team  |
| EPT-040 | Safeguards Contingency Events   |
| EPT-060 | On-Shift Dose Assessment and PARs   |
| EPT-075 | Duty Maintenance Supervisor Protective Actions (RP)                               |
| EPT-201 | Emergency Direction Requalification (Classroom)                                   |
| EPT-203 | Emergency Support Requalification (Classroom)                                     |
| EPT-209 | E-Plan Retraining/Security  |
| EPT-211 | Emergency Communicator Requalification (Classroom)                                |
| EPT-219 | RM21/STAMPEDE (Dose Assessment) Requalification (Classroom)                       |
| EPT 221 | Control Room Emergency Communicator Requalification                               |
| EPT-250 | ERO Annual Re-training (See Section 4.4)  |
| EPT-260 | On-Shift Dose Assessment and PARs Requalification                                 |
| EPT-312 | Controller/Evaluator Training   |
| EPT-350 | Severe Accident Management Requalification  |
|         | <b>NOTE: 400 series courses are position specific Read and Sign Courses (R/S)</b> |
| EPT-401 | EOF Director R/S  |
| EPT-402 | Deputy EOF Director R/S   |
| EPT-403 | Owners Liaison R/S  |
| EPT-404 | Radiological Director R/S   |
|         | Assistant Radiological Director R/S   |
| EPT-405 | Procurement/Resources Supervisor R/S  |
| EPT-406 | Offsite Field Team Supervisor R/S   |
| EPT 407 | Dose Assessment Specialist R/S  |
|         | Assistant Dose Assessment Specialist R/S  |
| EPT-408 | Support Organization Director R/S   |
| EPT-409 | Technical Director R/S  |
| EPT-410 | System Status Evaluator R/S   |
| EPT-411 | Engineering Assistant R/S   |
| EPT-412 | Records Supervisor R/S  |
| EPT-413 | Communications System Supervisor R/S  |
| EPT-414 | Offsite Agency Communicator R/S   |
| EPT-415 | Matagorda County EOC Liaison R/S  |
| EPT-416 | State of Texas EOC Liaison R/S  |
| EPT-417 | Federal Response Agency Liaison R/S   |

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|         |  |
|---------|--|
| EPT-418 | INPO/Industry Liaison R/S  |
| EPT-419 | Support Orientation Coordinator R/S                                      |
| EPT-420 | Licensing Director R/S   |
|         | Assistant Licensing Director R/S   |
| EPT-421 | Site Public Affairs Coordinator R/S                                      |
|         | Site Public Affairs Specialist R/S                                       |
| EPT-422 | Materials Engineer R/S   |
| EPT-423 | Assistant Support Organization Director R/S                              |
| EPT-424 | TSC Manager R/S  |
| EPT-425 | Assistant TSC Manager R/S  |
| EPT-426 | Operations Manager R/S   |
|         | Assistant Operations Manager R/S   |
| EPT-427 | Radiological Manager R/S   |
|         | Assistant Rad Manager R/S  |
| EPT-428 | Chemical/Radiochemical Mgr. R/S  |
| EPT-429 | Maintenance Manager R/S  |
| EPT-430 | Technical Manager R/S  |
| EPT-431 | Engineering Supervisor R/S   |
| EPT-432 | Security Manager R/S   |
| EPT-433 | Security Supervisor R/S  |
| EPT-434 | Administrative Manager R/S   |
|         | Assistant Administrative Manager R/S                                     |
| EPT-435 | OSC Coordinator R/S  |
| EPT-436 | Assistant OSC Coordinator R/S  |
| EPT-437 | Assistant Radiological Coordinator R/S                                   |
| EPT-438 | Security Coordinator R/S   |
| EPT-439 | Materials Handler R/S  |
| EPT-440 | Operations Support Center Discipline Leads                               |
|         | Plant Operations Discipline Lead R/S                                     |
|         | Chemistry Discipline Lead R/S  |
|         | Mechanical Maintenance Discipline Lead R/S                               |
|         | I&C Discipline Lead R/S  |
| EPT-441 | Shift Supervisor/Emergency Director R/S                                  |
| EPT-442 | Security Force Supervisor/Acting Security Manager R/S                    |
| EPT-443 | OSC Radiological Coordinator/Acting Radiological Manager R/S             |
| EPT-444 | Duty Maintenance Supervisor/Acting OSC Coordinator R/S                   |
| EPT-445 | Company Spokesperson R/S   |
| EPT-4XX | Emergency Preparedness Training "Read and Sign" Program                  |
| EPT-5XX | Emergency Preparedness Workshop  |
| RPT-100 | Introductory Health Physics Course                                       |
| SMG-002 | Severe Accident Management Guidelines Classroom Training                 |
| SMG-202 | Severe Accident Management Guidelines Classroom Requalification Training |

Certification 3226, Post Accident Sampling  
 Certification 3564, Basic Surveys  
 Certification 3567, Instruments  
 Certification 4398, Emergency Care Attendant  
 Certification 4600, Emergency Medical Technician

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**EMERGENCY OPERATIONS FACILITY POSITIONS**

All EOF positions require GET-I, and Fitness For Duty FFD-001. Personnel currently or previously licensed at STP or have completed STP SRO Management Certification do not require EPT-017. Personnel who are required to be respirator qualified shall, if necessary, have corrective lenses readily available.

| <u>POSITION</u>                                 | <u>COURSE NUMBER</u>  |
|---|---|
| 1. Administrative Staff .....                   | EPT-003   |
| 2. Area Coordinator Manager .....               | EPT-003   |
| 3. Assistant Dose Assessment Specialist.....    | EPT-003, EPT-019, EPT-407   |
| 4. Assistant Radiological Director.....         | EPT-003, EPT-019, EPT-404   |
| 5. Assistant Support Organization Director..... | EPT-003, EPT-423  |
| 6. Assistant Licensing Director.....            | EPT-003, EPT-420  |
| 7. Communications System Supervisor.....        | EPT-003, EPT-413  |
| 8. Communications System Technician .....       | EPT-003   |
| 9. Contracts Specialist .....                   | EPT-003   |
| 10. Deputy EOF Director (2).....                | EPT-001, EPT-011, EPT-040,<br>EPT-402, SMG-002                      |
| 11. Dose Assessment Specialist.....             | EPT-003, EPT-019, EPT-407   |
| 12. ED Administrative Assistant/Logkeeper ..... | EPT-003, EPT-011  |
| 13. Employee Support .....                      | EPT-003   |
| 14. Engineering Assistant .....                 | EPT-003, EPT-011, EPT-411   |
| 15. EOF Director (2).....                       | EPT-001, EPT-011, EPT-040,<br>EPT-401, SMG-002                      |
| 16. Federal Response Agency Liaison.....        | EPT-003, EPT-417  |
| 17. INPO/Industry Liaison.....                  | EPT-003, EPT-418  |
| 18. Licensing Director .....                    | EPT-003, EPT-420  |
| 19. Matagorda County EOC Liaison .....          | EPT-003, EPT-415  |
| 20. Materials Engineer.....                     | EPT-003, EPT-422  |
| 21. Offsite Agency Communicator.....            | EPT-003, EPT-011, EPT-414   |
| 22. Offsite Field Team.....                     | EPT-003, EPT-031, GET-II, GET-III,<br>Fit Test, Respirator Physical |
| 23. Offsite Field Team (Driver).....            | EPT-003, GET-II, GET-III, Fit Test,<br>Respirator Physical          |

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**EMERGENCY OPERATIONS FACILITY POSITIONS**

All EOF positions require GET-I, and Fitness For Duty FFD-001. Personnel currently or previously licensed at STP or have completed STP SRO Management Certification do not require EPT-017. Personnel who are required to be respirator qualified shall, if necessary, have corrective lenses readily available.

| <u>POSITION</u>                               | <u>COURSE NUMBER</u>                |
|---|-------------------------------------|
| 24. Offsite Field Team (Rad Van) .....        | EPT-003, GET II                     |
| 24. Offsite Field Team Supervisor.....        | EPT-003, EPT-031, EPT-406           |
| 25. Owners Liaison.....                       | EPT-003, EPT-403                    |
| 26. Procurement/Resources Supervisor .....    | EPT-003, EPT-405                    |
| 27. Purchaser.....                            | EPT-003                             |
| 28. Rad Staff .....                           | EPT-003                             |
| 29. Radiological Director.....                | EPT-003, EPT-019, EPT-011, EPT-404  |
| 30. Reception Center Liaison .....            | EPT-003                             |
| 31. Records Supervisor.....                   | EPT-003, EPT-412                    |
| 32. Site Public Affairs Admin. Assistant..... | EPT-003                             |
| 33. Site Public Affairs Coordinator .....     | EPT-003, EPT-421                    |
| 34. Site Public Affairs Specialist.....       | EPT-003, EPT-421                    |
| 35. State Of Texas EOC Liaison.....           | EPT-003, EPT-416                    |
| 36. Status Board Keeper .....                 | EPT-003                             |
| 37. Support Organization Director .....       | EPT-003, EPT-408                    |
| 38. Support Orientation Coordinator .....     | EPT-003, EPT-419                    |
| 39. System Status Evaluator .....             | EPT-001, EPT- 011, EPT-017, EPT-410 |
| 40. Technical Director .....                  | EPT-001, EPT-011, EPT-409           |
| 41. Technical Staff.....                      | EPT-001, EPT-017                    |
| 42. Telephone Operator .....                  | EPT-003                             |

Note: 2 - SAMG Decision Maker

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**TECHNICAL SUPPORT CENTER POSITIONS**

All TSC positions require GET-I, and Fitness for Duty FFD-001. Personnel currently or previously licensed at STP or have completed STP SRO Management Certification do not require EPT-017.

| <u>POSITION</u>                                 | <u>COURSE NUMBER</u>                           |
|---|--|
| 1. Administrative Manager .....                 | EPT-003, EPT-434                               |
| 2. Administrative Staff .....                   | EPT-003  |
| 3. Assistant Administrative Manager .....       | EPT-003, EPT-434                               |
| 4. Assistant Operations Manager (3).....        | EPT-001, EPT-426, SMG-002                      |
| 5. Assistant Radiological Manager.....          | EPT-003, EPT-019, EPT-427                      |
| 6. Assistant TSC Manager (2) .....              | EPT-001, EPT-011, EPT-040, EPT-425,<br>SMG-002 |
| 7. Chemical/Radiochemical Manager.....          | EPT-003, EPT-011, EPT-428                      |
| 8. Engineering Supervisor (3).....              | EPT-003, EPT-431, SMG-002                      |
| 9. Engineer - Electrical (3) .....              | EPT-003, EPT-017, SMG-002                      |
| 10. Engineer - I&C (3).....                     | EPT-003, EPT-017, SMG-002                      |
| 11. Engineer - Mechanical (3).....              | EPT-003, EPT-017, SMG-002                      |
| 12. Engineer - Nuclear (3).....                 | EPT-001, EPT-017, SMG-002                      |
| 13. Maintenance Communicator.....               | EPT-003  |
| 14. Maintenance Manager .....                   | EPT-003, EPT-429                               |
| 15. Operations Communicator (1).....            | EPT-003, SMG-002                               |
| 16. Operations Manager (3).....                 | EPT-001, EPT-426, SMG-002                      |
| 17. Radiological Communicator.....              | EPT-003  |
| 18. Radiological Manager (3).....               | EPT-003, EPT-019, EPT-427, SMG-002             |
| 19. RM-11 Operator .....                        | EPT-003  |
| 20. Security Communicator .....                 | EPT-003, EPT-030                               |
| 21. Security Manager .....                      | EPT-003, EPT-432                               |
| 22. Security Supervisor.....                    | EPT-003, EPT-433                               |
| 23. Status Board Keeper .....                   | EPT-003  |
| 24. Technical Staff - Risk/Reliability (3)..... | EPT-001, SMG-002                               |
| 25. Technical Communicator .....                | EPT-003  |
| 26. Technical Manager (3) .....                 | EPT- 001, EPT-430, SMG-002                     |
| 27. TSC Communicator.....                       | EPT-003, EPT-011                               |
| 28. TSC Manager (2).....                        | EPT-001, EPT-011, EPT-040, EPT-424,<br>SMG-002 |

- Notes:
- 1 - SAMG Implementor
  - 2 - SAMG Decision Maker
  - 3 - SAMG Evaluator

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**OPERATIONS SUPPORT CENTER**

All OSC positions require GET-I and Fitness for Duty FFD-001. Other identified positions require GET-II, GET-III, GET-IV, Fit Test, and Respirator Physical. Personnel who are required to be respirator qualified shall, if necessary, have corrective lenses readily available. Note: Operations Support Center emergency repair and damage control team personnel filling Emergency Response Organization positions in accordance with the South Texas Project Electric Generating Station Emergency Plan Table C-1 shall maintain respirator qualifications.

| <u>POSITION</u>                                   | <u>COURSE NUMBER</u>   |
|---|--|
| 1. Assistant OSC Coordinator .....                | EPT-003, EPT-436 OR EPT-444  |
| 2. Assistant Radiological Coordinator.....        | EPT-003, EPT-437   |
| 3. Chemistry Discipline Leader .....              | EPT-003, EPT-440   |
| 4. Document Control Clerk .....                   | EPT-003  |
| 5. Electrical Maintenance Discipline Leader.....  | EPT-003, EPT-440   |
| 6. Electrical Maintenance Staff.....              | EPT-003, GET-II, GET-III, GET-IV,<br>Fit Test, Respirator Physical   |
| 7. Emergency Medical Response.....                | EPT-003, GET-II, GET-III, GET-IV,<br>Fit Test, Respirator Physical,<br>Cert.4600 Emergency Medical<br>Technician |
| 8. I&C Discipline Leader.....                     | EPT-003, EPT-440   |
| 9. I&C Maintenance Staff.....                     | EPT-003, GET-II, GET-III, GET-IV,<br>Fit Test, Respirator Physical   |
| 10. Maintenance Planner .....                     | EPT-003  |
| 11. Material Handler.....                         | EPT-003, GET-II, GET-III, GET-IV,<br>Fit Test, Respirator Physical   |
| 12. Mechanical Maintenance Discipline Leader..... | EPT-003, EPT-440   |
| 13. Mechanical Maintenance Staff .....            | EPT-003, GET-II, GET-III, GET-IV,<br>Fit Test, Respirator Physical   |
| 14. OSC Communicator .....                        | EPT-003  |
| 15. OSC Coordinator .....                         | EPT-003, EPT-435   |
| 16. OSC Radiological Communicator.....            | EPT-003  |
| 17. PASS Team.....                                | EPT-003, GET-II, GET-III, GET-IV,<br>Fit Test, Respirator Physical   |
| 18. Plant Operations Discipline Leader .....      | EPT-003, EPT-440   |
| 19. Resource Coordinator .....                    | EPT-003  |
| 20. Security Coordinator.....                     | EPT-003, EPT-438   |
| 21. Spare Parts Engineer.....                     | EPT-003  |
| 22. Status Board Keeper .....                     | EPT-003  |

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**CONTROL ROOM/ONSHIFT ORGANIZATION POSITIONS:**

Control Room/Onshift positions designated “#” below require current FFD-001, GET-001 and GET-002, GET-003, GET-004, respirator physical and respirator fit test. All other positions require current FFD-001, GET-001, and GET-002. Qualified Alarm Station Operators filling the Onsite Communicator position do NOT require EPT-030. IF the Duty Maintenance Supervisor does NOT have course credit for EPT-075, THEN EITHER the 2<sup>nd</sup> Mechanical Maintenance OR 2<sup>nd</sup> I&C Maintenance craft person on shift SHALL have course credit for EPT-075. Personnel, who are required to be respirator qualified shall, if necessary, have corrective lenses readily available.

| <u>POSITION</u>   | <u>COURSE NUMBER</u>  |
|---|---|
| 1. Shift Supv./Unit Supv./Emergency Director (1)#.....                | EPT-001, EPT-011, EPT-040,<br>EPT-441, SMG-002                          |
| 2. Shift Technical Advisor (1)# .....                                 | EPT-001, EPT-011, SMG-002   |
| 3. Reactor Operators (1)# .....                                       | EPT-001, EPT-011, SMG-002   |
| 4. Onsite Communicator.....   | EPT-003, EPT-030  |
| 5. Plant Operators (Fire Brigade/Safe Shutdown)# .....                | EPT-003, EPT-011  |
| 6. Acting Radiological Manager/<br>OSC Radiological Coordinator#..... | EPT-003, EPT-060, EPT-443   |
| 7. Radiation Protection Technicians# .....                            | EPT-003   |
| 8. Security Force Supervisor/Acting Security Manager .....            | EPT-003, EPT-442  |
| 9. Security Force Table C-1 Personnel# .....                          | EPT-003   |
| 10. Duty Maintenance Supv./Acting OSC Coordinator .....               | EPT-003, EPT-075, EPT-444   |
| 11. Material Handler.....   | EPT-003, EPT-439  |
| 12. ERO Maintenance Crews# .....                                      | EPT-003   |
| 13. Medical Responders (Plant Protection personnel)#.....             | EPT-003, Cert 4398 (Emergency Care<br>Attendant)                        |
| 14. Chemistry Technician (RP Protective Measures)#.....               | EPT-003, RPT-100, Cert 3564<br>(Basic Surveys), Cert 3567 (Instruments) |
| 15. Chemistry Technician#.....  | EPT-003, Cert 3226 (Post Accident<br>Sampling)                          |
| 16. State/County Communicator .....                                   | EPT-003, EPT-011  |

Notes: 1 - SAMG Implementor

Table C-1 – South Texas Project Electric Generating Station Emergency Plan Table C-1

**JOINT INFORMATION CENTER POSITIONS**

| <u>POSITION</u>  | <u>COURSE NUMBER</u> |
|--|----------------------|
| 1. Company Spokesperson.....   | EPT-001, EPT-445     |
| 2. All Other STPEGS Personnel Assigned To<br>The Joint Information Center..... | EPT-003              |

|  |   |               |               |
|--|---|---------------|---------------|
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| <b>Emergency Preparedness Training Program</b> |   |               |               |
| Addendum 3                                     | Offsite Emergency Preparedness Course Numbers |               | Page 1 of 1   |

|         |   |
|---------|---|
| EPT-108 | Introductory Overview of Emergency Preparedness           |
| EPT-109 | Emergency Access Operations                               |
| EPT-110 | Basic Radiation Protection                                |
| EPT-111 | Personal Dosimetry  |
| EPT-112 | Pressurized Water Reactor Familiarization                 |
| EPT-113 | Matagorda County Emergency Management Plan                |
| EPT-114 | Matagorda County Emergency Response Direction and Control |
| EPT-115 | Public Notification Methods                               |
| EPT-116 | Prompt Notification System Operation                      |
| EPT-117 | Protective Action Guides                                  |
| EPT-118 | Evacuation Methodology                                    |
| EPT-119 | Normal Site Access Operations                             |
| EPT-120 | Fire Department   |
| EPT-121 | Radiation Monitoring and Decontamination                  |
| EPT-122 | Reception Center Operation                                |
| EPT-123 | Environmental Health Department                           |
| EPT-124 | Law Enforcement   |
| EPT-125 | Emergency Communications Network                          |
| EPT-126 | Public Information Officer                                |
| EPT-127 | Emergency Medical Services                                |
| EPT-128 | Transportation Officer and Bus Drivers                    |
| EPT-304 | Offsite Agency Coordination                               |

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| <b>Emergency Preparedness Training Program</b> |                       |               |               |
| Addendum 4                                     | Substitution/History  |               | Page 1 of 2   |

The Emergency Preparedness Training program was originally described in IP-8.21Q, Emergency Preparedness Training Program. This procedure provided for the following initial training courses:

|         |  |
|---------|--|
| EPT-001 | Emergency Direction  |
| EPT-002 | Emergency Plan Training - Licensed Operators   |
| EPT-003 | Emergency Plan Training - Non-Licensed Operators   |
| EPT-004 | Emergency Plan Training - Technical Support (i.e., engineering)  |
| EPT-005 | Emergency Plan Training - Maintenance  |
| EPT-006 | Emergency Plan Training - Chemical Operations (i.e., non-licensed operators) and<br>Chemical Analysis                          |
| EPT-007 | Emergency Plan Training - Health and Safety Services (i.e., radiation protection)  |
| EPT-008 | Emergency Plan Training - Management Services (i.e., administrative personnel)   |
| EPT-009 | Emergency Plan Training - Security   |
| EPT-010 | Emergency Plan Training - Public Affairs & Information (i.e., corporate personnel who<br>staffed the Media Information Center) |

The ten basic courses were comprised of "abbreviated/detailed" lessons. A detailed lesson contained all objectives for a lesson (e.g., evacuation). An abbreviated lesson was comprised of most, but not all of the detailed objectives. This resulted in a course hierarchy which was used for course substitutions. The hierarchy was as follows:

1. EPT-001 or EPT-002
2. EPT-004 or EPT-007
3. EPT-003, EPT-005, EPT-006, EPT-008, EPT-009, EPT-010

As an example, a person needing EPT-008 credit could attend an EPT-004 or EPT-002 as an acceptable practice. Requalification frequency established in IP-8.21Q was  $12 \pm 3$  months.

Two additional courses, EPT-011 Emergency Communicator, and EPT-030, Quintron Console Operation have a substitution history. EPT-011 (which includes operation of the Quintron Console) may be substituted for EPT-030.

Requalification training courses were identified as a 200 version of the initial course (e.g. requal for EPT-001 was EPT-201). Classroom basic requalification classes (EPT-200 series) were time shortened versions of the original class, covering all original objectives. An EPT-203 examination is identical to an EPT-003 examination and an EPT-201 examination is identical to an EPT-001 examination. If a person's qualifications have expired, requalification training will reinstate a person's qualifications to be on the Emergency Response Organization regardless of the time since expiration.

|  |                       |               |               |
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|  | <b>OPGP03-ZT-0139</b> | <b>Rev. 6</b> | Page 20 of 21 |
| <b>Emergency Preparedness Training Program</b> |                       |               |               |
| Addendum 4                                     | Substitution/History  |               | Page 2 of 2   |

In mid-1991 the emergency preparedness program was completing an "enhancement" period. This period was characterized by a complete rewrite of all emergency preparedness procedures and training courses. Letter ST-HL-AE-3782 "Extension of Emergency Response Requalification" (Houston Lighting and Power to Nuclear Regulatory Commission, May 21, 1991) documents a one-time deviation in requalification frequency from 15 to 17 months to prevent requalification training on the "old" program and to permit requalification training on the enhanced program. This change is reflected in personnel training records during the summer of 1991. The requalification course numbers used in 1991 were: EPT-041 "Differences 1" (differences between the old and new program for directors of the Emergency Response Organization) and EPT-042 "Differences 2" (differences between the old and new program for those who supported the directors). Also, in mid-1991, IP-8.21Q was revised such that there became only two initial emergency preparedness training courses; EPT-001, Emergency Direction and EPT-003, Emergency Support. EPT-001 was revised to incorporate all of the objectives found in the previous courses EPT-001, 002, 004 and 007. EPT-003 then became the equivalent of EPT-003, 005, 006, 008, 009 and 010. Also, EPT-001, containing all of the objectives of EPT-003 and more, became an acceptable substitute for EPT-003.

In the spring of 1992, requalification requirements were modified to allow requalification by drill or workshop (EPT-250). In November, 1993, IP-8.21Q was retired and this procedure, OPGP03-ZT-0139, Emergency Preparedness Training Program, became the implementing procedure for emergency preparedness training.

Revision 5 of this procedure created specific read and sign course numbers for many emergency response organization positions (EPT 400 series). The 400 series replaces the generic EPT 043 course number. Additionally, revision 5 added Severe Accident Management (SMG) training for select emergency response organization personnel.

**ERO PERSONNEL**

**DATE  
SCHEDULED**

**DATE  
COMPLETED**

**1. Matagorda County Judge and Commissioner**

- 1.1 EPT-108 Introductory Overview of Emergency Preparedness
- 1.2 EPT-110 Basic Radiation Protection
- 1.3 EPT-112 Pressurized Water Reactor Familiarization
- 1.4 EPT-113 Matagorda County Emergency Management Plan
- 1.5 EPT-114 Matagorda County Emergency Response Direction and Control
- 1.6 EPT-115 Public Notification Methods
- 1.7 EPT-117 Protection Action Guides
- 1.8 EPT-118 Evacuation Methodology

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**2. Bay City Mayor**

- 2.1 EPT-108 Introductory Overview of Emergency Preparedness
- 2.2 EPT-110 Basic Radiation Protection
- 2.3 EPT-112 Pressurized Water Reactor Familiarization
- 2.4 EPT-113 Matagorda County Emergency Management Plan
- 2.5 EPT-114 Matagorda County Emergency Response Direction and Control
- 2.6 EPT-115 Public Notification Methods
- 2.7 EPT-117 Protection Action Guide
- 2.8 EPT-118 Evacuation Methodology

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**3. Palacios Mayor**

- 3.1 EPT-108 Introductory Overview of Emergency Preparedness
- 3.2 EPT-110 Basic Radiation Protection
- 3.3 EPT-112 Pressurized Water Reactor Familiarization
- 3.4 EPT-113 Matagorda County Emergency Management Plan
- 3.5 EPT-114 Matagorda County Emergency Response Direction and Control
- 3.6 EPT-115 Public Notification Methods
- 3.7 EPT-117 Protection Action Guides

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| O:\PROCEDURES\APPROVED\ERP\0102VTP02.08x<br>Effective Date: 08/07/00<br>Print Time / Date: 4:40 PM 08/01/00 |                    | <b>0ERP01-ZV-TP02</b> |  | <b>Rev. 8</b>               | Page 1 of 21 |
| <b>Offsite Field Teams</b>  |                    |                       |  |                             |              |
| Quality   | Non Safety-Related | Usage: N/A            |  | Effective Date: 08/07/00    |              |
| Leo Meier   | N/A                | N/A                   |  | Emergency Response Division |              |
| PREPARER  | TECHNICAL          | USER                  |  | COGNIZANT ORGANIZATION      |              |

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**Offsite Field Teams****1.0 Purpose and Scope**

- 1.1 This procedure describes the radiological monitoring and analysis techniques to be used by Offsite Field Teams during a declared emergency.
- 1.2 This procedure does not describe the radiological environmental monitoring and analysis activities to be implemented during the Recovery phase of a declared emergency. Recovery phase monitoring will be performed in accordance with Radiological Laboratory procedures.

**2.0 Responsibilities**

- 2.1 The Radiological Director is responsible for overall coordination of STPEGS Offsite Field Team operations.
- 2.2 The Offsite Field Team Supervisor is responsible for:
  - 2.2.1 Forming, briefing, and directing the activities of the Offsite Field Teams.
  - 2.2.2 Coordinating Offsite Field Team activities with State and Federal agencies.
  - 2.2.3 Evaluating dose projection calculations to determine monitoring locations and transit routes.
  - 2.2.4 Tracking Offsite Field Team radiological exposures.
  - 2.2.5 Advising Offsite Field Teams of changes in meteorology, source terms, and plant conditions which could impact downwind doses.
  - 2.2.6 Functioning as the primary technical interface with the NRC Environmental Dose Assessment Coordinator.
- 2.3 The Offsite Field Teams are responsible for obtaining and field analyzing environmental samples, performing environmental radiation surveys, adhering to prescribed safety rules and radiological protection requirements, and completing assigned tasks.

**3.0 References**

- 3.1 STPEGS Emergency Plan
- 3.2 0ERP01-ZV-EF10, Offsite Field Team Supervisor
- 3.3 0PRP10-ZU-0001, REMP Sample Collection

**Offsite Field Teams**

- 3.4 OPGP05-ZV-0004, Emergency Plan Implementing Procedure Users Guide
- 3.5 Bureau of Radiation Control, Procedure 10, Monitoring and Sampling Airborne Gamma Releases.
- 3.6 STPNOC Correspondence with the Bureau of Radiation Control ER20000094, ER20000095.

**4.0 Procedure**

- 4.1 At an Alert or higher emergency classification, Offsite Field Team personnel shall:
  - 4.1.1 Respond to the EOF and sign in on the EOF Staffing Board.
  - 4.1.2 Report to the Offsite Field Team Supervisor and receive a briefing on plant status and current environmental monitoring activities.
  - 4.1.3 Receive Offsite Field Team assignments from the Offsite Field Team Supervisor and perform required actions in Data Sheet 1, Offsite Field Team Leader Checklist.
  - 4.1.4 Perform radiological surveys and environmental sampling and analysis per guidance in Addendum 1 through 6.

**5.0 Support Documents**

- 5.1 Addendum 1 - Monitoring Techniques
- 5.2 Addendum 2 - Sample Preparation and Analysis
- 5.3 Addendum 3 - Particulate Concentration
- 5.4 Addendum 4 - Iodine Concentration
- 5.5 Addendum 5 - Plume Location Guidance
- 5.6 Addendum 6 - Sample Area Map
- 5.7 Form 1 - Offsite Monitoring Data Form
- 5.8 Form 2 - Sample Analysis Calculation Form
- 5.9 Data Sheet 1 - Offsite Field Team Leader Checklist

|                            |  |               |              |
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|                            | <b>0ERP01-ZV-0ERP01-ZV-TP02,<br/>Offsite Field Teams</b> | <b>Rev. 8</b> | Page 4 of 21 |
| <b>Offsite Field Teams</b> |  |               |              |
| Addendum 1                 | Monitoring Techniques                                    |               | Page 1 of 5  |

A. Plume Locating and Tracking

1. Record all data on Form 1, Offsite Monitoring Data Form.
2. While in route to the affected area, one member of the Offsite Field Team should continuously observe the meter scale of the monitoring instrument or keep the instrument speaker turned on in order to identify the plume boundaries and to detect changes in dose rates within the affected area. Readings above background indicate that the plume is in close proximity. Peak readings indicate approximate plume centerline.
  - a. Readings while in motion should be taken with the detector of the instrument held inside the vehicle and above the lap of the team member.
  - b. Readings taken in motion should not be interpreted as actual measurements of dose rate at any given location due to the time lag between detection and meter response. These readings should only be used as indicators of trends in dose rate changes, initial plume detection, and an early warning of areas in which exposure rates may exceed guidelines for Offsite Field Team activities.
  - c. Plume edges are identified by instrument readings three (3) times normal background readings.
3. Upon initial detection of the plume, the vehicle should be stopped and dose rate measurements performed outside the vehicle by obtaining open and closed window dose rate readings at three feet (3') and six inches (6) above the ground. Record results and report them to the Offsite Field Team Supervisor.
  - a. Survey measurements which are to be recorded and transmitted should be selected, where possible, for ease in communicating the measurement location (i.e., pre-selected monitoring points, road intersections, landmarks, etc.). Sector designations or approximate compass direction from the plant and estimated distance should be recorded.
4. Using Addendum 5, Plume Location Guidance, assess possible location of the plume and inform the Offsite Field Team Supervisor.

|                            |                       |               |              |
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| <b>Offsite Field Teams</b> |                       |               |              |
| Addendum 1                 | Monitoring Techniques |               | Page 2 of 5  |

5. Coordinate with the Offsite Field Team Supervisor and drive from monitoring point to monitoring point in the affected area searching for the plume boundaries, centerline, and leading edge.
  - a. Plume edge boundaries may be located by driving along roadways running perpendicular to the path of the plume.
  - b. Plume centerline may be located by traversing the plume while observing instrument reading and looking for the highest reading.
  - c. The leading edge of the plume may be located by driving downwind along roadways parallel to the path of the plume. Whenever possible the leading edge should be approached from a downwind direction in advance of the plume.
6. Traverse the plume at a speed slow enough to ensure adequate meter response time but not so slow as to unnecessarily expose personnel to radiation.
7. Assess plume deposition and location by taking open and closed window dose rate readings at three feet (3') and six inches (6) above the ground. Record results. Refer to Addendum 5 to assess plume location and whether contamination is present.
8. If air samples are not needed after completing plume tracking activities, then move to a low background area, assess personnel and vehicle contamination levels, personnel exposures, and await instructions from the Offsite Field Team Supervisor.

**B. Air Sample Collection**

1. Air sample collection should not take place in areas where the exposure rate from the plume exceeds 100 mrem/hr. Air samples should be collected in areas where the exposure rate is < 10 mrem/hr.
2. If precipitation is occurring, then take precautions to shield the air sampling equipment and survey instruments from moisture (i.e., place air sampler in the vehicle or under hood).
3. Record all data on Form 1, Offsite Monitoring Data Form.

|                            |                       |               |              |
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| <b>Offsite Field Teams</b> |                       |               |              |
| Addendum 1                 | Monitoring Techniques |               | Page 3 of 5  |

4. Grab Sampling

- a. Place a particulate filter (fuzzy side out) in the front chamber of the sampling head, centering the filter in the recessed area just ahead of the metal screen. Screw the filter holder cap down carefully and examine assembly to ensure the filter disc remains centered.
- b. Place a silver zeolite cartridge in the rear chamber of the sampling head with the arrow on the cartridge pointing in the direction of the air flow and reassemble the sampling head.
- c. Screw the sampling head into the air sampler.
- d. Place the air sampler in the desired location for sampling. The air sampler should be positioned upwind from the vehicles exhaust.
- e. Connect the negative (BLACK) cable to a grounded portion of the vehicle.
- f. Connect the positive (RED) cable to the positive (+, larger) battery post.
- g. Place the 12V/24V switch to 24V.
- h. Set the timer for the desired time (flow rate with a standard particulate filter and Silver Zeolite cartridge will be approximately 2.2 cfm). A 10 ft<sup>3</sup> sample can be obtained in approximately 5 minutes.

NOTE

The air sampler may be operated without vehicle battery assist for up to 2 hours on a fully charged battery by placing the 12V/24V switch to 12V and setting the timer for the desired time (flow rate with standard particulate filter and Silver Zeolite cartridge will be approximately 0.8 cfm). A 10 ft<sup>3</sup> sample can be obtained in approximately 13 minutes.

- i. If not already running, then start the vehicle's engine. The engine should remain running during the entire sampling period.
- j. Press the START button to begin sampling.
- k. Record the start time and initial flow rate.

|                            |                       |               |              |
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| Addendum 1                 | Monitoring Techniques |               | Page 4 of 5  |

- l. Check the air sampler head periodically during the sampling period for surface dose rate readings. The volume of air sampled may be varied depending on dose rates at the location but should not exceed 10 ft<sup>3</sup>, nor be less than 1 cubic foot.
- m. The air sampler will shut off when the set time has expired, or can be manually stopped by pressing the STOP button.
- n. Just prior to the air sampler being shut off, note the final flow rate.
- o. When the air sampler has stopped, record stop time and record time and final flow rate. If final flow rate is different than the initial flow rate, then record the average of the start and stop flow rates.
- p. When the air sampler has stopped, then disconnect the cables from the battery.
- q. Place the entire air sampler, including air sample head, into a plastic bag. If the air sample head is reading greater than 10 mrem/hr, then place the air sampler in the far rear of the vehicle and proceed to a low background area (i.e., less than 300 cpm on a frisker) for sample preparation and analysis, Addendum 2.

C. Smear Collection

1. Record all data on Form 1, Offsite Monitoring Data Form.
2. Allowing only one side of the smear to come in contact, wipe a 100 cm<sup>2</sup> area of a smooth, flat, exposed, horizontal surface.
3. Being careful not to contaminate other smears or to shake collected material off of the smear, carefully fold the smear cover over the smear and store in a secure place until the smear can be analyzed.
4. Obtain a contact dose rate of the smear. If dose rate is > 10 mrem/hr, then place smear in rear of vehicle.
5. Record the time the smear was taken and the location.

|                            |                       |               |              |
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| Addendum 1                 | Monitoring Techniques |               | Page 5 of 5  |

D. Environmental Sampling

1. If Environmental sampling is directed, then implement the appropriate sampling procedure.
  - a. When assisting the State Bureau of Radiation Control, implement appropriate sections of Procedure 10, Monitoring and Sampling Airborne Gamma Releases.
  - b. When sampling for the station, implement the appropriate sections of OPRP10-ZU-0001, REMP Sample Collection.

## Offsite Field Teams

1. Field EvaluationsA. Air Samples

1. Record all data on Form 2, Sample Analysis Calculation Form.
2. Obtain a background reading. Record counting instrument number, model, and background reading.
3. Remove air sampler from the vehicle. Remove the air sampler from the plastic bag. Run the air sampler for 30 to 60 seconds to purge the filter of residual noble gas.
4. Gently remove the particulate filter from the air sample head. Measure the count rate on the collection side of the filter at 1/2 inch from the filter. Subtract the background reading and record cpm reading.
5. Place particulate filter into a clean, labeled plastic bag or petri dish for further analysis.
6. Remove the cartridge from the air sampler head and place it into a clean, labeled plastic bag. Measure the count rate through the plastic bag by direct contact frisk on the collection side of the cartridge. Subtract the background reading and record cpm reading.
7. Use Addendum 3, Particulate Concentration and Addendum 4, Iodine Concentration, to convert the cpm readings to a  $\mu\text{Ci}/\text{cc}$  concentration. Record the  $\mu\text{Ci}/\text{cc}$  concentration and report air sample results to the Offsite Field Team Supervisor.
8. If necessary, then calculate  $\mu\text{Ci}/\text{cc}$  concentration using Form 2, Sample Analysis Calculation Form and record results. Report air sample results to the Offsite Field Team Supervisor.
9. Record air sample analysis data in the appropriate spot on Form 1, Offsite Monitoring Data Form as necessary.
10. Save both the particulate filter and the cartridge for further analysis. Ensure samples are properly labeled and packaged to prevent cross contamination. A completed Form 2, Sample Analysis Calculation Form, should accompany each sample.

|                            |                                 |               |               |
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| <b>Offsite Field Teams</b> |                                 |               |               |
| Addendum 2                 | Sample Preparation and Analysis |               | Page 2 of 3   |

B. Smears

1. Record all data on Form 1, Offsite Monitoring Data Form.
2. Analyze the smear in a low background area (<300 CPM) and obtain a background reading.
3. Open the smear cover being careful not to dislodge any material from the smear.
4. Place the smear directly under the frisker probe at a distance of approximately 1/2.
5. Measure the count rate on the smear.
6. Subtract the background reading from the gross counts to obtain smear ccpm. Divide ccpm by count rate meter efficiency to obtain DPM. Record smear DPM and save all smears, ensuring that they are properly labeled and packaged.
7. If the activity is above the count rate meter range, then use an ion chamber dose rate meter to obtain a contact open window and closed window reading. Subtract the closed window reading from the open window reading and multiply by the Beta Correction Factor (BCF), located on the meter. Report results (mrad/hr) in the appropriate location with an \*.

C. Lapel Air Samples

1. Record all data on Form 2, Sample Analysis Calculation Form.
2. Analyze the sample in a low background area (<300 CPM) and obtain a background reading.
3. Carefully remove the lapel sample particulate filter from the sample head.
4. Place the filter directly under the frisker probe at a distance of approximately 1/2.
5. Measure the count rate on the filter.
6. Subtract the background reading from the gross counts to obtain filter ccpm and record.
7. Calculate and record the particulate concentration using the Lapel Particulate Filter calculation.
8. Place the filter in a clean, labeled bag and save in a secure place for future analysis.

|                            |                                 |               |               |
|----------------------------|---------------------------------|---------------|---------------|
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| Addendum 2                 | Sample Preparation and Analysis |               | Page 3 of 3   |

9. Carefully remove the sample cartridge from the sample head and place into a clean, labeled bag.
10. Place the cartridge directly under and in direct contact with the frisker probe.
11. Measure the count rate on the cartridge.
12. Subtract the background reading from the gross counts to obtain cartridge ccpm and record.
13. Calculate and record the iodine DAC-hours using the Lapel Iodine Cartridge calculation.
14. Place the filter, cartridge, and Form 2, as necessary, in a secure place and save for future analysis.
15. Inform the Offsite Field Team Supervisor of lapel air sample field analysis results.

Airborne particulate concentration should be estimated using the following table:

| CCPM    | 10 ft <sup>3</sup><br>μCi/cc | 5 ft <sup>3</sup><br>μCi/cc | 2 ft <sup>3</sup><br>μCi/cc | 1 ft <sup>3</sup><br>μCi/cc |
|---------|------------------------------|-----------------------------|-----------------------------|-----------------------------|
| 100     | 1.6E - 9                     | 3.2E - 9                    | 8.0E - 9                    | 1.6E - 8                    |
| 200     | 3.2E - 9                     | 6.4E - 9                    | 1.6E - 8                    | 3.2E - 8                    |
| 300     | 4.8E - 9                     | 9.6E - 9                    | 2.4E - 8                    | 4.8E - 8                    |
| 400     | 6.4E - 9                     | 1.3E - 8                    | 3.2E - 8                    | 6.4E - 8                    |
| 500     | 8.0E - 9                     | 1.6E - 8                    | 4.0E - 8                    | 8.0E - 8                    |
| 600     | 9.6E - 9                     | 1.9E - 8                    | 4.8E - 8                    | 9.6E - 8                    |
| 700     | 1.1E - 8                     | 2.3E - 8                    | 5.6E - 8                    | 1.1E - 7                    |
| 800     | 1.3E - 8                     | 2.6E - 8                    | 6.4E - 8                    | 1.3E - 7                    |
| 900     | 1.4E - 8                     | 2.9E - 8                    | 7.2E - 8                    | 1.4E - 7                    |
| 1,000   | 1.6E - 8                     | 3.2E - 8                    | 8.0E - 8                    | 1.6E - 7                    |
| 2,000   | 3.2E - 8                     | 6.4E - 8                    | 1.6E - 7                    | 3.2E - 7                    |
| 3,000   | 4.8E - 8                     | 9.6E - 8                    | 2.4E - 7                    | 4.8E - 7                    |
| 4,000   | 6.4E - 8                     | 1.3E - 7                    | 3.2E - 7                    | 6.4E - 7                    |
| 5,000   | 8.0E - 8                     | 1.6E - 7                    | 4.0E - 7                    | 8.0E - 7                    |
| 6,000   | 9.6E - 8                     | 1.9E - 7                    | 4.8E - 7                    | 9.6E - 7                    |
| 7,000   | 1.1E - 7                     | 2.3E - 7                    | 5.6E - 7                    | 1.1E - 6                    |
| 8,000   | 1.3E - 7                     | 2.6E - 7                    | 6.4E - 7                    | 1.3E - 6                    |
| 9,000   | 1.4E - 7                     | 2.9E - 7                    | 7.2E - 7                    | 1.4E - 6                    |
| 10,000  | 1.6E - 7                     | 3.2E - 7                    | 8.0E - 7                    | 1.6E - 6                    |
| 20,000  | 3.2E - 7                     | 6.4E - 7                    | 1.6E - 6                    | 3.2E - 6                    |
| 30,000  | 4.8E - 7                     | 9.6E - 7                    | 2.4E - 6                    | 4.8E - 6                    |
| 40,000  | 6.4E - 7                     | 1.3E - 6                    | 3.2E - 6                    | 6.4E - 6                    |
| 50,000  | 8.0E - 7                     | 1.6E - 6                    | 4.0E - 6                    | 8.0E - 6                    |
| 60,000  | 9.6E - 7                     | 1.9E - 6                    | 4.8E - 6                    | 9.6E - 6                    |
| 70,000  | 1.1E - 6                     | 2.3E - 6                    | 5.6E - 6                    | 1.1E - 5                    |
| 80,000  | 1.3E - 6                     | 2.6E - 6                    | 6.4E - 6                    | 1.3E - 5                    |
| 90,000  | 1.4E - 6                     | 2.9E - 6                    | 7.2E - 6                    | 1.4E - 5                    |
| 100,000 | 1.6E - 6                     | 3.2E - 6                    | 8.0E - 6                    | 1.5E - 5                    |
| 200,000 | 3.2E - 6                     | 6.4E - 6                    | 1.6E - 5                    | 3.2E - 5                    |
| 300,000 | 4.8E - 6                     | 9.6E - 6                    | 2.4E - 5                    | 4.8E - 5                    |
| 400,000 | 6.4E - 6                     | 1.3E - 5                    | 3.2E - 5                    | 6.4E - 5                    |
| 500,000 | 8.0E - 6                     | 1.6E - 5                    | 4.0E - 5                    | 8.0E - 5                    |

1. Check air sample filter by direct frisk 1/2 from filter.
2. Determine the corrected counts per minute (CCPM) by subtracting the background counts per minute (cpm).
3. Run down CCPM column to the most accurate number (i.e., for 7,600 CCPM, use 8,000 CCPM, for 7,200 CCPM use 7,000 CCPM).
4. Read across to the column with the appropriate sample volume and record the corresponding μCi/cc reading.
5. If a sample indicates 900 CCPM and its volume is 10 ft<sup>3</sup>, read down to 900 and across to 10 ft<sup>3</sup>. Record 1.4E-8 μCi/cc.  
Assumptions: These numbers are based on 100% collection efficiency for particulate filters and friskers efficiency of at least 10% for unknown particulate.
6. 1 DAC for unknown particulate equals 3.0E - 9 μCi/cc for radiation workers (based on the most limiting isotope anticipated during an accident situation).

Airborne Iodine concentration should be estimated using the following table:

| CCPM    | 10 ft <sup>3</sup><br>μCi/cc | 5 ft <sup>3</sup><br>μCi/cc | 2 ft <sup>3</sup><br>μCi/cc | 1 ft <sup>3</sup><br>μCi/cc |
|---------|------------------------------|-----------------------------|-----------------------------|-----------------------------|
| 100     | 3.2E - 8                     | 6.5E - 8                    | 1.6E - 7                    | 3.2E - 7                    |
| 200     | 6.5E - 8                     | 1.3E - 7                    | 3.2E - 7                    | 6.5E - 7                    |
| 300     | 9.7E - 8                     | 1.9E - 7                    | 4.8E - 7                    | 9.7E - 7                    |
| 400     | 1.3E - 7                     | 2.6E - 7                    | 6.5E - 7                    | 1.3E - 6                    |
| 500     | 1.6E - 7                     | 3.2E - 7                    | 8.1E - 7                    | 1.6E - 6                    |
| 600     | 1.9E - 7                     | 3.9E - 7                    | 9.7E - 7                    | 1.9E - 6                    |
| 700     | 2.3E - 7                     | 4.5E - 7                    | 1.1E - 6                    | 2.3E - 6                    |
| 800     | 2.6E - 7                     | 5.2E - 7                    | 1.3E - 6                    | 2.6E - 6                    |
| 900     | 2.9E - 7                     | 5.8E - 7                    | 1.5E - 6                    | 2.9E - 6                    |
| 1,000   | 3.2E - 7                     | 6.5E - 7                    | 1.6E - 6                    | 3.2E - 6                    |
| 2,000   | 6.5E - 7                     | 1.3E - 6                    | 3.2E - 6                    | 6.5E - 6                    |
| 3,000   | 9.7E - 7                     | 1.9E - 6                    | 4.8E - 6                    | 9.7E - 6                    |
| 4,000   | 1.3E - 6                     | 2.6E - 6                    | 6.5E - 6                    | 1.3E - 5                    |
| 5,000   | 1.6E - 6                     | 3.2E - 6                    | 8.1E - 6                    | 1.6E - 5                    |
| 6,000   | 1.9E - 6                     | 3.9E - 6                    | 9.7E - 6                    | 1.9E - 5                    |
| 7,000   | 2.3E - 6                     | 4.5E - 6                    | 1.1E - 5                    | 2.3E - 5                    |
| 8,000   | 2.6E - 6                     | 5.2E - 6                    | 1.3E - 5                    | 2.6E - 5                    |
| 9,000   | 2.9E - 6                     | 5.8E - 6                    | 1.5E - 5                    | 2.9E - 5                    |
| 10,000  | 3.2E - 6                     | 6.5E - 6                    | 1.6E - 5                    | 3.2E - 5                    |
| 20,000  | 6.5E - 6                     | 1.3E - 5                    | 3.2E - 5                    | 6.5E - 5                    |
| 30,000  | 9.7E - 6                     | 1.9E - 5                    | 4.8E - 5                    | 9.7E - 5                    |
| 40,000  | 1.3E - 5                     | 2.6E - 5                    | 6.5E - 5                    | 1.3E - 4                    |
| 50,000  | 1.6E - 5                     | 3.2E - 5                    | 8.1E - 5                    | 1.6E - 4                    |
| 60,000  | 1.9E - 5                     | 3.9E - 5                    | 9.7E - 5                    | 1.9E - 4                    |
| 70,000  | 2.3E - 5                     | 4.5E - 5                    | 1.1E - 4                    | 2.3E - 4                    |
| 80,000  | 2.6E - 5                     | 5.2E - 5                    | 1.3E - 4                    | 2.6E - 4                    |
| 90,000  | 2.9E - 5                     | 5.8E - 5                    | 1.6E - 4                    | 2.9E - 4                    |
| 100,000 | 3.2E - 5                     | 6.5E - 5                    | 1.3E - 4                    | 3.2E - 4                    |
| 200,000 | 6.5E - 5                     | 1.3E - 4                    | 4.8E - 4                    | 6.4E - 4                    |
| 300,000 | 9.7E - 5                     | 1.9E - 4                    | 6.5E - 4                    | 9.7E - 4                    |
| 400,000 | 1.3E - 4                     | 2.6E - 4                    | 8.1E - 4                    | 1.3E - 3                    |
| 500,000 | 1.6E - 4                     | 3.2E - 4                    | 9.7E - 4                    | 1.6E - 3                    |

1. Through the plastic bag, check the iodine cartridge by direct contact frisk on the collection side of the cartridge.
2. Determine the corrected counts per minute (CCPM) by subtracting the background counts per minute (cpm).
3. Run down CCPM column to the most accurate number (i.e., for 7,600 CCPM, use 8,000 CCPM, for 7,200 CCPM use 7,000 CCPM).
4. Read across to the column with the appropriate sample volume and record the corresponding μCi/cc reading.
5. If a sample indicates 900 CCPM and its volume is 10 ft<sup>3</sup>, read down to 900 and across to 10 ft<sup>3</sup>. Record 2.9E-7 μCi/cc.

Assumptions: These numbers are based on 100% collection efficiency for silver zeolite cartridge and frisker efficiency of 0.49% for I-131.

6. 1 DAC for I-131 equals 2E-8 μCi/cc for radiation workers.

|                            |                         |               |               |
|----------------------------|-------------------------|---------------|---------------|
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| Addendum 5                 | Plume Location Guidance |               | Page 1 of 1   |

1. PLUME HAS PASSED AND CONTAMINATION DEPOSITED

- 6 inch open window reading is significantly higher than 3 foot open window reading.

**AND**

- 6 inch open window reading is significantly higher than 6 inch closed window reading.

2. IN THE PLUME

- 6 inch open window reading is approximately the same as 3 foot open window reading

**AND**

- 3 foot open window reading is significantly higher than 3 foot closed window reading.

**AND**

- Instrument readings three (3) times normal background readings indicate the edges of the plume.

3. PLUME ABOVE OR OFF TO SIDE

- 3 foot open window reading is approximately the same as 3 foot closed window reading

**AND**

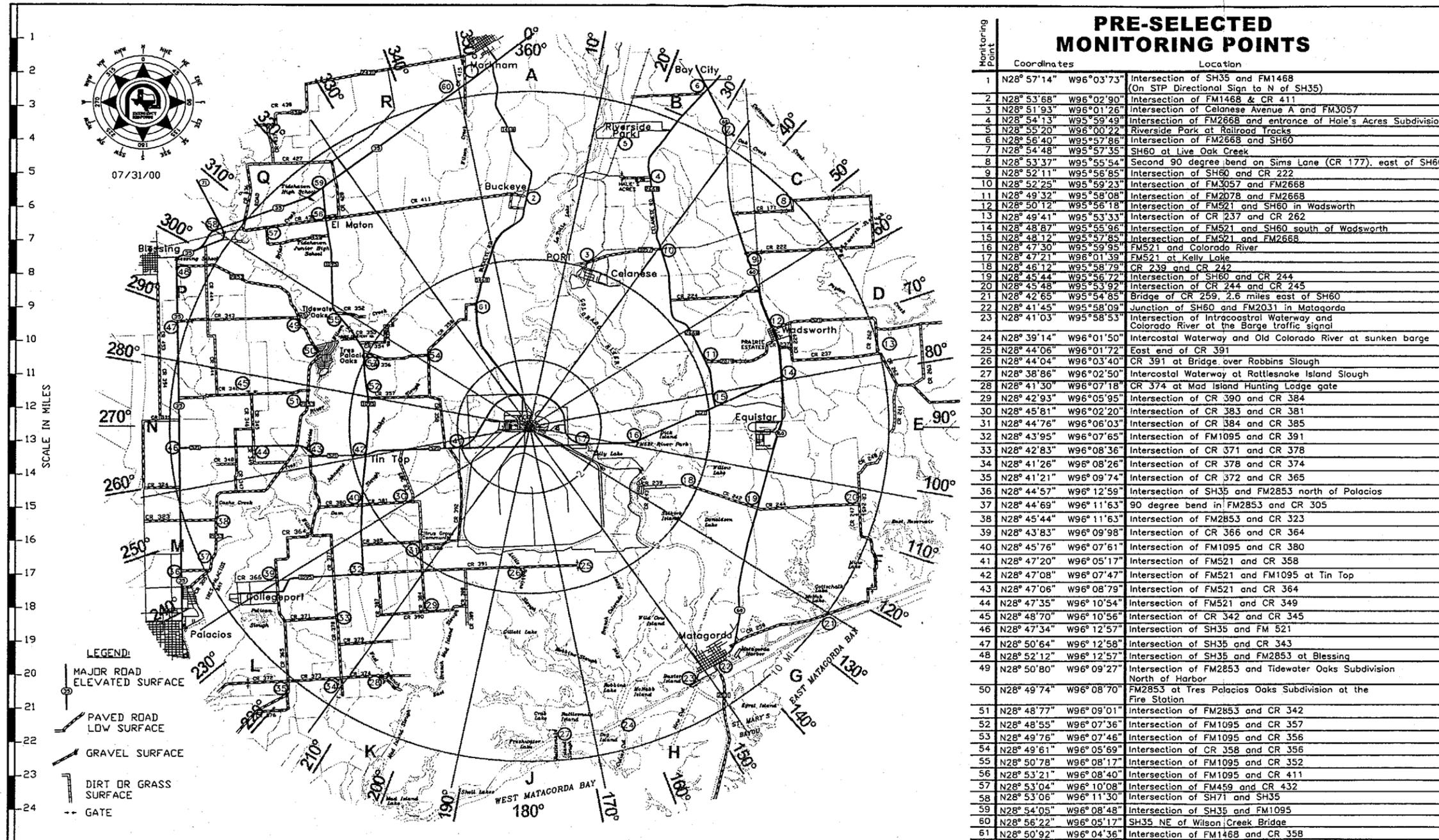
- 6 inch open window reading is approximately the same as 6 inch closed window reading.

**AND**

- Instrument readings three (3) times normal background readings indicate the edges of the plume.

Offsite Field Teams

Sample Area Map







|                            |                                     |               |               |
|----------------------------|-------------------------------------|---------------|---------------|
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| Data Sheet 1               | Offsite Field Team Leader Checklist |               | Page 1 of 4   |

|               | (Name) | (Date) | (Unit)      |
|---------------|--------|--------|-------------|
| <u>Action</u> |        |        | <u>Time</u> |

**A. Team Preparations**

1. Obtain keys to the Emergency Response Site Vehicle (ERSV) from the key box located in the EOF. \_\_\_\_\_
  
2. Obtain the following from the EOF:
  - 1 - Offsite Field Team Kit (each kit consists of 2 boxes) \_\_\_\_\_
  - 1 - battery powered air sampler \_\_\_\_\_
  - 1 - lapel air sampler \_\_\_\_\_
  - 1 - portable radio \_\_\_\_\_
  - 1 - spare radio battery \_\_\_\_\_
  - 1 - portable cellular telephone \_\_\_\_\_
  - Various TLD Packets for Local Industry \_\_\_\_\_
  
3. Check the Offsite Field Team Kit by performing the following actions:
  - a. Compare the contents of the kit against the inventory list that is inside of the kit. This step does not have to be performed if the seals on the kits are intact. Notify the Offsite Field Team Supervisor of any discrepancies. \_\_\_\_\_
  
  - b. Verify operability of the radiation survey instrumentation by checking the calibration dates, battery response levels, and functional checks. Notify the Offsite Field Team Supervisor of any inoperable equipment. \_\_\_\_\_
  
  - c. Verify operability of the dosimeter charger and calculator. Notify the Offsite Field Team Supervisor if either is inoperable. \_\_\_\_\_

|                            |                                     |               |               |
|----------------------------|-------------------------------------|---------------|---------------|
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| Action | Time |
|--------|------|
|--------|------|

- |   |   |
|---|---|
| <p>d. Perform a pre-operational check of the battery powered air sampler by performing the following actions:</p> <ol style="list-style-type: none"> <li>1) Verify that the calibration due date on the calibration sticker has not been exceeded.</li> <li>2) With the unit not plugged into an AC power supply, place the 12V/24V switch to 12V, set Timer to 01, CAL/NORM switch to NORM and press the START button.</li> <li>3) If the motor starts, then press the <u>STOP</u> button.</li> <li>4) If the motor does not operate, then notify the Offsite Field Team Supervisor.</li> </ol> <p>e. Wrap the RO-2 (or equivalent) radiation survey instrument in a plastic bag to minimize intrusion of noble gases into the ionization chamber.</p> | <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |
| <p>4. Assign each member of the Offsite Field Team a TLD, 0-200 mrem SRD, and a 0-5 rem SRD. Notify the Offsite Field Team Supervisor of TLDs issued, the TLD numbers, to whom the TLDs were issued, and the initial readings of the SRDs.</p>  | <p>_____</p>  |
| <p>5. Perform a communications check between the ERSV and the Offsite Field Team Supervisor. Radio settings will be in accordance with OPGP07-ZA-0011, Addendum 1.</p> <ol style="list-style-type: none"> <li>a. Use MODE A, CHANNEL 9 on the ERSV.</li> <li>b. Use Channel 9 with toggle switch on A for repeater or B for direct communications on the Motorola MTS 2000 Hand-held radios.</li> </ol>   | <p>_____</p>  |

|                            |                                     |               |               |
|----------------------------|-------------------------------------|---------------|---------------|
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Action \_\_\_\_\_ Time \_\_\_\_\_

- c. Set up the portable cellular telephone by performing the following:
  - 1) Plug power cord into the cigarette lighter.
  - 2) Rotate antenna to a vertical position.
  - 3) Refer to operation summary card located in the base of the telephone pack for activating and operating the phone.
  
- d. If radios fail in the field, use the portable cellular telephone to contact the Offsite Field Team Supervisor. Telephone numbers for Emergency Response Facilities are in the Emergency Communications Directory or ERO Facility Telephone List.
  
- 6. When directed by the Offsite Field Team Supervisor to initiate offsite monitoring, then obtain a briefing from the Offsite Field Team Supervisor. \_\_\_\_\_
  
- 7. Ensure each member of the Offsite Field Team dons protective clothing/equipment as directed by the Offsite Field Team Supervisor. One team member shall don a lapel air sampler (this should be the member performing the surveys). \_\_\_\_\_
  
- 8. When dispatched, use guidance in Addendum 1 through 6 for performing radiological surveys, obtaining samples, performing analysis, and evaluating results. N/A
  
- 9. Ensure all survey and sample information obtained by the Offsite Field Teams is documented properly on Form 1, Offsite Monitoring Data Form, and Form 2, Sample Analysis Calculation Form. N/A
  
- 10. When directed by the Offsite Field Team Supervisor, deliver required Emergency response equipment to the Staging Area. \_\_\_\_\_
  - Inform the Offsite Field Team Supervisor when delivery is complete. \_\_\_\_\_

|                            |                                     |               |               |
|----------------------------|-------------------------------------|---------------|---------------|
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| <u>Action</u> | <u>Time</u> |
|---------------|-------------|
|---------------|-------------|

11. When directed by the Offsite Field Team Supervisor to deliver TLD packets to local industries then:

- a. Proceed to the appropriate industry main entrance. \_\_\_\_\_
- b. Deliver TLD packets to appropriate industry's management or authorized representative and record individual's name. \_\_\_\_\_
- c. Inform the Offsite Field Team Supervisor when delivery is complete. \_\_\_\_\_

12. Maintain communication with the Offsite Field Team Supervisor. Inform him of all monitoring activities, analysis results, and personnel exposures.