

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

In the Matter of)
Tennessee Valley Authority) Docket Nos. 50-327
) 50-328

In accordance with the requirements of 10 CFR 50, Appendix E, Section V, the enclosure provides the following EIPs:

This letter is being sent in accordance with NRC RIS 2001-05.
If you have any questions concerning this matter, please
telephone me at (423) 843-7170 or J. D. Smith at (423) 843-6672.

Pedro Salas
Licensing and Industry Affairs Manager

1045

U.S. Nuclear Regulatory Commission
Page 2
October 6, 2003

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**TENNESSEE VALLEY AUTHORITY
SEQUOYAH NUCLEAR PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE**

**EPIP-10
EMERGENCY MEDICAL RESPONSE**

Revision 22

QUALITY-RELATED

PREPARED BY: BILL PEGGRAM

PHONE: 8360

RESPONSIBLE ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: J. RANDY FORD

EFFECTIVE DATE: October 1, 2003

LEVEL OF USE: REFERENCE USE

Revision History

<u>REV</u>	<u>DATE</u>	<u>REVISED PAGES</u>	<u>REASON FOR CURRENT REVISION</u>
15	05/08/2001		Intent Change - Quarterly review of phone numbers. Revised Fire Ops with new pager number in Section 4.3. Revised the Nursing Staff list which has gone down to two instead of three in Att. 1, Section B. Corrected SSP to SPP in Att. 1.
16	06/11/2001		Non-Intent change. Change Fire Ops pager number on Pages 5 and 20 to 90333 due to replacement of pager.
17	08/20/2001		Intent Change - Changed maps to Erlanger and Emergency Room Layout in Appendix D, Maps. Added second MEDCOM phone number to Att. 1, Quarterly review of phone numbers, revised physicians contact from REND to Medical Services.
18	07/05/2002	2, 20	Intent Change - New standardized phone numbers for all three sites required a change for the SM, and Radcon Lab phone numbers.
19	09/05/2002	ALL	Reformatted for standardization purposes. Changed EPIP-17 to EPIP-12, changed records section for standardization. Made Attachment 1 into Appendix E. Changed Erlanger phone number in App.E from (423) 778-7664 to (423) 778-4343. This is an Intent change.
20	03/07/03	2, 16, 19	Updated App, D Map, Erlanger Medical Center Emergency Dept. Preparation. Corrected Memorial NorthPark Telephone numbers (PER 03-002079-000) This is an Intent change.
21	07/11/03	19	Intent Change. Added ODS notification to App E, PER 03-005656-000 and SPP3.5, R12.
22	10/01/03	3, 12	Intent Change. Added note for RC to stay with the patient.

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1.0 INTRODUCTION

This procedure outlines the actions to be followed by the Medical Emergency Response Team (MERT) during medical emergencies. The Medical Emergency Response Team (MERT) shall consist of:

- Incident Commander [Unit Supervisor (US) Team Leader]
- Fire Operations Personnel (EMT and MERT Leader)
- Level I and/or II Responders.
- RADCON technician(s) if responding inside the RCA or if requested.
- Site Security Officer(s).
- Health Services - as requested

The activation of the MERT and the medical alarm (extension 3911) is not required if the patient needs only minor treatment of cuts, scrapes, or illness and the following conditions are met:

- Medical or EMT personnel are immediately available to attend to the patient and no additional assistance needs to be summoned to assist in that treatment.
- Assistance is not required from Radcon, Operations, or Security.
- The patient is not in medical distress and
- Patient will not be transported offsite by TVA or HCEMS ambulance.

2.0 REFERENCES

- 2.1 EPIP-7, "Activation and Operation of the Operations Support Center"
- 2.2 EPIP-12, "Emergency Equipment and Supplies"
- 2.3 EPIP-15, "Emergency Exposure Guidelines"
- 2.4 SPP-3.5, "Regulatory Reporting Requirements"

3.0 INSTRUCTIONS**3.1 Initial Response**

Upon discovering an ill or injured person, personnel shall:

- A. Administer aid for any life threatening situation if trained.
- B. Summon assistance from available personnel in the immediate area.
- C. Notify the Control Room of the medical emergency by calling ext 3911.
- D. Patients known or suspected of being in medical distress shall not be allowed to walk, especially when the cause of distress may be aggravated by exertion.

3.2 Control Room Response

The Control Room will obtain:

- Name of caller,
- Location (building, elevation, column),
- Type of medical emergency,
- Number of personnel involved,
- Immediate area hazards (radiological, safety), and
- Telephone number of caller.

3.3 Activation of the Medical Emergency Response Team

Upon receipt of the emergency call (code call), the Control Room will:

- A. Notify the Shift Manager and the Incident Commander of the emergency.
- B. Verify Fire Operations is notified by:
 - 1. Ringdown line to Fire Operations or
 - 2. Operations radio (channel F-3) or
 - 3. Call extension 7447 or 7448 or,
 - 4. Page Fire Operations by pushing the "FPU Page" button on the emergency phone (or pager #90333 if autodial is non-functional).
- C. Perform a plant-wide PA announcement that a medical emergency has been reported to alert the MERT to respond to the location.
- D. Confirm/coordinate MERT response (via radio or phone) until Incident Commander assumes control.
- E. If the Operations Support Center (OSC) has been activated under EPIP-7, the MERT will coordinate the emergency by radio or telephone through the OSC Fire Operations Advisor, who shall ensure a Team Tracking Number is assigned for tracking and debriefing purposes.

3.4 Responsibilities of the Shift Manager

Shift Manager shall:

- A. Establish and maintain communications with the Incident Commander.
- B. Ensure the Health Services Station (if staffed) has been notified to standby and monitor the radio.
- C. Notify Site Security to escort the ambulance onsite as required or establish access control at the helicopter landing zone.
- D. If an ambulance is requested by Health Services and the MERT is not activated, alert the Incident Commander and MERT leader to coordinate support activities.
- E. Notify industrial safety as time permits.
- F. If transporting to an agreement hospital, the Shift Manager shall complete Appendix E and provide the information to the receiving hospital. Appendix E will be forwarded to the SQN Emergency Preparedness Manager for retention for two years.
- G. Consider dispatching an Environmental Monitoring to assist in analyzing the samples taken by the plant RADCON group at the hospital. The van should be dispatched prior to ambulance departure from the site to ensure timely arrival at the hospital.
- H. The Shift Manager is responsible for any further notifications in accordance with SQN SPP-3.5 and applicable site procedures.
- I. The Shift Manager should verify that the patient's emergency contact has been notified in accordance with applicable site procedures.

3.5 Responsibilities of the Incident Commander

Incident Commander/Unit Supervisor (US) will:

- A. Provide direction on the scene until relieved by the MERT Leader.
- B. Coordinate and direct plant personnel in support of medical response activities provided by the MERT, (i.e., Radiological Control or Security, as conditions warrant).
- C. Determine from RADCON if patient was irradiated in excess of 5 Rem or is contaminated.
- D. With the MERT Leader, determine the number of patients, appropriate hospital, and mode of transport for each and notify the Shift Manager.
- E. Notify the Shift Manager of any TVA or Offsite emergency vehicle use.
- F. Determine from the MERT Leader if the Health Services Nurse is needed and if needed, notify the Shift Manager to have Health Services respond.
- G. With the MERT Leader, determine if RadCon support is needed and request support through the Shift Manager as needed.

3.6 Responsibilities of the Fire Operations MERT Leader

MERT Leader will:

- A. Direct the on-scene medical response and rescue activities and determine mode of patient off site transport.
- B. With the Incident Commander, determine if RadCon support is needed and request support through the Shift Manager as needed.
- C. Lead the MERT in and out by best route.
- D. Direct Site Security to secure the Triage area if needed.
- E. With the Incident Commander, determine the number of patients, appropriate hospital, and mode of transport for each (See Appendix B).
- F. Ensure that necessary medical treatment will take precedence over decontamination efforts.
- G. Determine from RADCON if each patient was irradiated >5 Rem or is contaminated.
- H. Request the HCEMS Paramedic or Supervisor become a member of the Command Post Organization upon arrival to ensure that patients are handled as quickly as possible and in the appropriate order based on their injuries.
- I. Keep Shift Manager advised (through the Incident Commander) of the situation and request additional aid as needed.

3.6 Responsibilities of the Fire Operations MERT Leader (Continued)

- J. When Lifeforce is called, contact Lifeforce on the TN EMS Frequency 155.205 MHz (TN EMS Mutual Aid frequency).
- K. Establish and assume responsibility for the Helicopter Landing Zone.
- L. Request that the HCEMS medical attendant inform the Shift Manager if the ambulance is diverted to a different hospital after leaving site.
- M. Request that the HCEMS medical attendant in the transporting vehicle follow-up with the receiving hospital and provide Estimated Time of Arrival (ETA), medical conditions, radiological conditions, and any pertinent patient information via radio or cellular phone immediately upon site departure.
- N. If communication difficulties arise, the onsite Operations Fire Foreman or Shift Manager shall perform the follow-up notification by telephone. As a minimum, an updated ETA and confirmation of medical and radiological conditions shall be conveyed.

3.7 Responsibilities of the Fire Ops. EMT

The EMT will:

- A. Assist in delivery of necessary medical and rescue equipment to the scene.
- B. Provide emergency medical care as trained.
- C. If needed, perform patient rescue and extrication from hazardous areas and assist in relocation to the Triage area (e.g.: elevation 706' breezeway outside the Work Coordination Center).
- D. Provide ambulance transport and care as required.

3.8 Responsibilities of Health Services

Health Services (Nurse) will:

- A. Remain at the Health Services Station while monitoring the patient's status via radio communications.
- B. Prepare to assist with patient care in the event the patient is brought to the site Health Services Station.
- C. Respond to the accident scene or triage area when requested (e.g., triage or multiple casualty incidents) by the Incident Commander through the SM. Security will arrange escort per 4.10.E.
- D. As requested, coordinate radiological assessment and decontamination efforts with RADCON while onsite as the medical status permits. (See Appendix A.)
- E. Perform follow-up notifications and provide the hospital with a medical history.
- F. As required and as available, the plant nurse will provide any relevant medical information requested by the patient's attending physician.

3.9 Responsibilities of Radiological Control (RADCON)

Radiological Control (RADCON) will:

- A. Determine if the response location is inside the RCA or if a potential exists for contamination or irradiation. If a potential exists, respond to the scene otherwise remain ready to subsequently respond if the Incident Commander or MERT Team Leader determine RadCon support is necessary.
- B. Advise the MERT of radiological conditions and protective actions including ALARA considerations and exposure control.
- C. Provide contamination control and monitoring assistance during patient handling, transport, and decontamination. (Appendix A)
- D. Determine if each patient was irradiated > 5 Rem or is contaminated. Personnel exceeding 5 Rem will be considered as "irradiated" under Section 2.0 of Appendix A.
- E. If personnel contamination with injury has occurred, necessary medical treatment will take precedence over decontamination efforts.
- F. Provide area and equipment contamination control during emergency and recovery phase activities.
- G. Provide support to plant/ambulance/hospital personnel as necessary. Support may include activities deemed necessary by the MERT Leader or Incident Commander, such as establishing control zones to limit the spread of contamination from chemicals or radioactive materials.
- H. If contamination or irradiation is suspected or confirmed, RADCON personnel (as available) will accompany the patient and provide radiological services as required. (See Appendix A)
- I. As medical conditions allow, if internal contamination is suspected, RADCON shall initiate an isotopic analysis on a sample of the contamination involved and provide data to the receiving hospital as requested.
- J. RADCON will provide the receiving hospital with radiological information upon arrival. As required, further information such as patient exposures by processed TLDs and isotopic analyses through gamma-ID results may be conveyed to the hospital's Radiation Safety Officer by telephone at first opportunity.
- K. At the first opportunity and as information becomes available, RADCON will notify TVA Health Services anytime TVA personnel receive radiation doses in excess of the TVA occupational dose limits.

3.10 Responsibilities of Site Security

Site Security will:

- A. Facilitate emergency personnel and equipment movement through security areas.
- B. Provide crowd control at the accident scene, triage area, and ambulance and provide assistance as requested.
- C. Provide access control to the Helicopter Landing Zone limiting access to those directly involved in patient care and transport.
- D. Escort offsite ambulances to the accident scene or point of patient transfer, as required.
- E. Escort Health Services personnel from the health station to the accident scene as required.
- F. Badge out at the vehicle gate the ambulance crew and personnel being transported in a TVA ambulance as non-emergency traffic.

3.11 Supplies

- A. As needed, Corporate Emergency Preparedness shall restock and inventory the Radiological Emergency Supply Cabinets located at the agreement hospitals in accordance with EPIP-12.
- B. Specialized replacement items can be obtained in coordination with the SQN Emergency Preparedness Manager as required.

4.0 RECORD RETENTION**4.1 Records of Classified Emergencies**

The materials generated in support of key actions during an actual emergency classified a an Alert or higher are considered Lifetime retention Non-QA records. Materials shall be forwarded to the EP Manager who shall submit any records deemed necessary to demonstrate performance to the Corporate EP Manager for storage.

4.2 Drill and Exercise Records

The materials deemed necessary to demonstrate performance of key actions during drills are considered Non-QA records. These records shall be forwarded to the EP Manager who shall retain records deemed necessary to demonstrate six-year plan performance for six years. The EP Manager shall retain other records in this category for three years.

4.3 Hospital and Personnel Notification Report

The Hospital and Personnel Notification Report in this Instruction will be retained by the SQN Emergency Preparedness Manager for three years.

5.0 ILLUSTRATIONS AND APPENDICES

- 5.1 Appendix A, Patient Care and RADCON Assistance Guidelines**
- 5.2 Appendix B, Determination of Best Method of Patient Transport**
- 5.3 Appendix C. Procedure For Cytogenetics Blood Studies by REAC/TS**
- 5.4 Appendix D, Maps**
- 5.5 Appendix E, Hospital and Personnel Notification Report**

Appendix A, Patient Care and RADCON Assistance Guidelines

Page 1 of 3

1.0 GENERAL PATIENT CARE GUIDELINES

- 1.1 First aid and emergency medical care should be provided onsite to preserve life and to minimize injury and suffering.
- 1.2 The medical emergency response team will take appropriate medical action as directed by the EMT trained in emergency medical care until the patient is transferred to a higher medical authority.
- 1.3 The Medical Director at the Emergency Room should be consulted when in the EMTs judgment further professional attention is needed.
- 1.4 If no work related trauma, life-threatening conditions, contamination, or excessive exposure are involved or suspected and the patient is informed and capable, then the patient may have the choice of hospital when offsite medical attention is necessary.
- 1.5 The care of persons known or suspected to be associated with radiation exposure or contamination will be coordinated with RADCON. The essential aims of the medical-RADCON team are:
 - Minimize the injury and further radiation exposure to the victim.
 - Protect attending personnel from excessive and unnecessary radiation exposure.
 - Control spread of radioactive contamination.
 - Assess and document the patient's radiological exposure.
 - Immediate lifesaving and disability limiting procedures will take precedence over noncritical decontamination and dosimetry assessment procedures.
- 1.6 As medical conditions allow, inform the patient of his/her radiological status.

2.0 IRRADIATED-NONCONTAMINATED

- 2.1 Remove the victim from further exposure providing only essential first aid in the process, then direct attention to medical care of other physical injuries.
- 2.2 Medical care of the radiation exposure is governed by the medical status of the patient and the findings of RADCON. In most cases the treatment of illness or physical injury takes precedence over treatment for radiation exposure.
- 2.3 Individuals who have received an acute whole body dose of less than 5 rem usually require no medical examination or treatment for the radiation exposure.
- 2.4 Individuals who have received an acute whole body dose greater than 5 Rem should have hematological studies performed to detect chromosomal aberrations or other changes in blood constituents, under the direction of a TVA physician representative.
- 2.5 Any personnel known or suspected of receiving radiation exposure in excess of the TVA occupational dose limits should be reported by RADCON personnel to TVA medical and the area medical chief as soon as possible. RADCON should document the amount and type of radiation and assist MEDICAL SERVICES in follow-up by supplying them with this information.

3.0 CONTAMINATED PATIENTS

The patient should be given initial emergency care by the MERT. All decontamination that the medical status of the patient will allow should be accomplished. The appropriate sequence of care must be determined on an individual basis by the medical-RADCON team.

Appendix A, Patient Care and RADCON Assistance Guidelines

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3.1 CONTAMINATED PATIENTS (Continued)

The injured person will be transported and treated in one of two ways:

- A. If the person is severely injured, they may be transported directly to an agreement hospital. Every reasonable effort should be made to reduce the radioactive contamination level to less than 500 mRem per hour at one foot. Spread of contamination may be minimized by removing the patient's excess clothing and wrapping him in a sheet, as his injuries permit.
 - B. If cases of less severe injuries, the patient will be sent to the personnel decontamination facility to remove as much contamination as possible before being treated in the emergency treatment area or transferred to an agreement hospital.
- 3.2 The RADCON group will collect, identify, label, and analyze all biological specimens as required and deemed necessary. The RADCON Group will obtain the injured person's personal dosimetry and replace with equivalent dosimetry if appropriate.
- 3.3 The RADCON group will control contamination as necessary during transportation to the receiving hospital.

NOTE:	The RADCON Tech that initially surveys a patient should stay with that patient until either 1) the patient is declared "clean" by survey or 2) the patient is turned over to another RC Tech that will stay with the patient (so that patient is under constant physical control of a RC Tech.) Exceptions may be granted for basket lifts, etc. where RCT cannot be physically with the patient for a brief period.
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- 3.4 At the hospital, a RADCON representative will furnish radiological services as necessary to attending physicians and hospital personnel as requested.

4.0 GENERAL RADCON ASSISTANCE GUIDELINES

- 4.1 RADCON personnel will assist emergency room personnel in instituting contamination control procedures at the time of the radiation emergency admission.
- 4.2 Upon arrival at the hospital the lead RADCON person from the plant should report the radiological status to the hospital medical team leader.
- 4.3 If requested by the hospital, provide this assistance:
- Establish a checkpoint and monitoring station for entry and exit from the contamination control area.
 - Survey patients and advise physician in charge of external radiation levels to personnel and of patient contamination.
 - Survey personnel, equipment and facilities and designate those that must be restricted for decontamination.
 - Supervise decontamination of personnel and facilities and release areas that are not contaminated.
 - Direct handling of radioactive waste.
 - Request the medical staff collect samples of nasal swabs, clothing, gauze, and materials used in cleansing for analysis. Place in plastic bags and label.

Appendix A, Patient Care and RADCON Assistance Guidelines

Page 3 of 3

4.0 GENERAL RADCON ASSISTANCE GUIDELINES (Continued)

- 4.4** Survey the ambulance and its contents. Supervise decontamination if required. If the ambulance cannot be surveyed immediately it should be locked to prevent spread of contamination.
- 4.5** If deemed necessary, an Environmental Monitoring Van will be dispatched to assist in analyzing the samples taken by the plant RADCON group. The van should be dispatched prior to ambulance departure to ensure timely arrival at the hospital.
- 4.6** Collect contaminated material from hospital and return to site for disposal. Transport of this material will be in accordance with TVA Radiological Material Shipping Manual.

Appendix B, Determination of Best Method of Patient Transport

Page 1 of 1

If the patient is suspected or known to have been irradiated (< 5 Rem) or contaminated with radioactive material, utilize an agreement hospital and ambulance, listed on Appendix E.

- B. All Sequoyah employees with service related traumatic injuries should be transported to an agreement facility, listed on Appendix E.
- C. If in shock or the condition is life threatening, he or she should be transported to the nearest facility, Memorial North Park Hospital if by ambulance or to Erlanger if by Lifeforce.
- D. The selection of the Lifeforce helicopter or the transporting ambulance (SQN versus offsite ambulance) shall be primarily based upon the medical needs of the victim. Since the Fire Operations MERT Leader is responsible for the management of fire/EMT personnel onsite, he/she shall have the final responsibility for selection of the transportation vehicle. Considerations in making the selection include:

- The capabilities of the ambulance service shall be considered according to the medical needs of the patient (Advanced Life Support versus Basic Life Support services). The recommendations of the EMT or nurse should be considered in the decision process.
- The reduction in onsite response capabilities if the TVA ambulance is utilized.
- Offsite ambulances shall be used as the primary means of transport unless the medical emergency is life threatening ("load and go"), and the estimated arrival time for an offsite ambulance is unacceptable (adverse impact on patient's condition). To avoid these delays, requests for local ambulance or Lifeforce helicopter support shall be made as soon as the need for transport is identified.

Examples of "Load and go" or life-threatening conditions:

- severe airway obstructions not alleviated by manual means,
- respiratory emergencies (tension pneumothorax),
- uncontrolled severe bleeding,
- head injury with unilateral blown or dilated pupils,
- open chest or abdominal wounds,
- severe burns,
- deteriorating level of consciousness or unconsciousness from any cause,
- cardiac arrest, and
- severe medical problems including heart attack, stroke, heatstroke, poisoning, abnormal childbirth, and signs or symptoms of shock.

Appendix C, Procedure For Cytogenetics Blood Studies by REAC/TS

Page 1 of 1

WA has an agreement with the Radiation Emergency Assistance Center/Training Site (REAC/TS) Cytogenetics Laboratory for support services including a white blood cell lymphocyte culture for dose assessment of TEDE exposures to ionizing radiation.

Upon the order of a physician, and in coordination with a health physicist, REAC/TS shall be contacted to request and coordinate the shipment and return of a blood sample kit. This kit contains all necessary collection, shipping, and instruction materials. The kit is provided by REAC/TS to promote optimal test results by use of controlled sample handling materials.

KEY INFORMATION ON CYTOGENETIC BLOOD STUDIES:**WHEN:**

Upon the order of a responsible physician, with verification that known or suspected ionizing radiation exposure (acute TEDE) exceeds 5 REM.

FREQUENCY:

Once, unless directed otherwise by REAC/TS or physician.

TO REQUEST KIT:

Attending physician should contact:

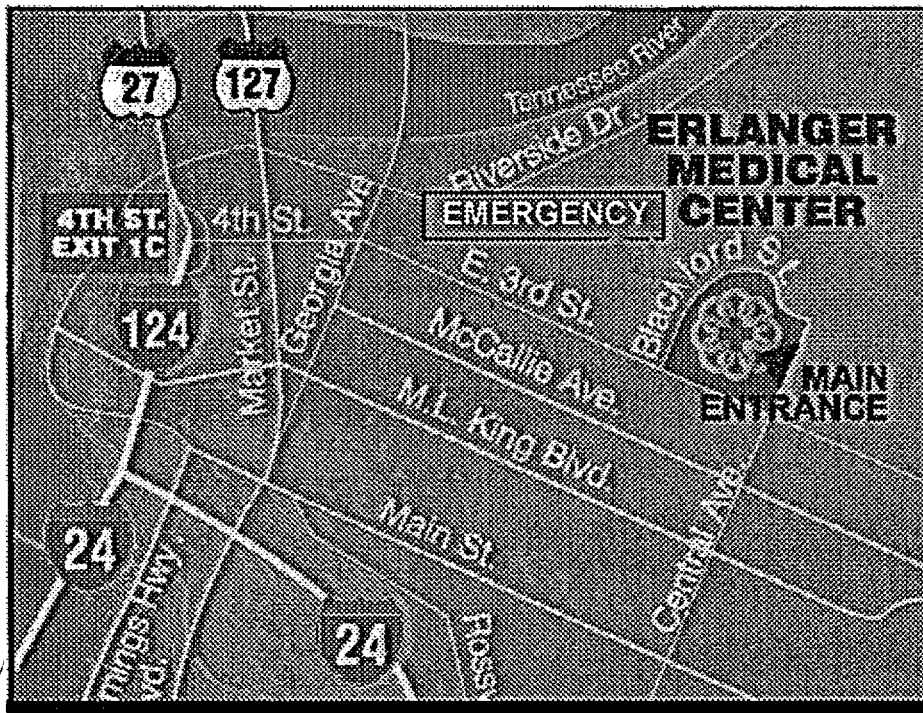
REAC/TS, (865) 576-3131 - day time phone number
(865) 576-1005 - after hours.

REPORT RESULTS TO:

Attending Physician, Site Medical Office

Appendix D, Maps
Page 1 of 4

SQN TO CHATTANOOGA

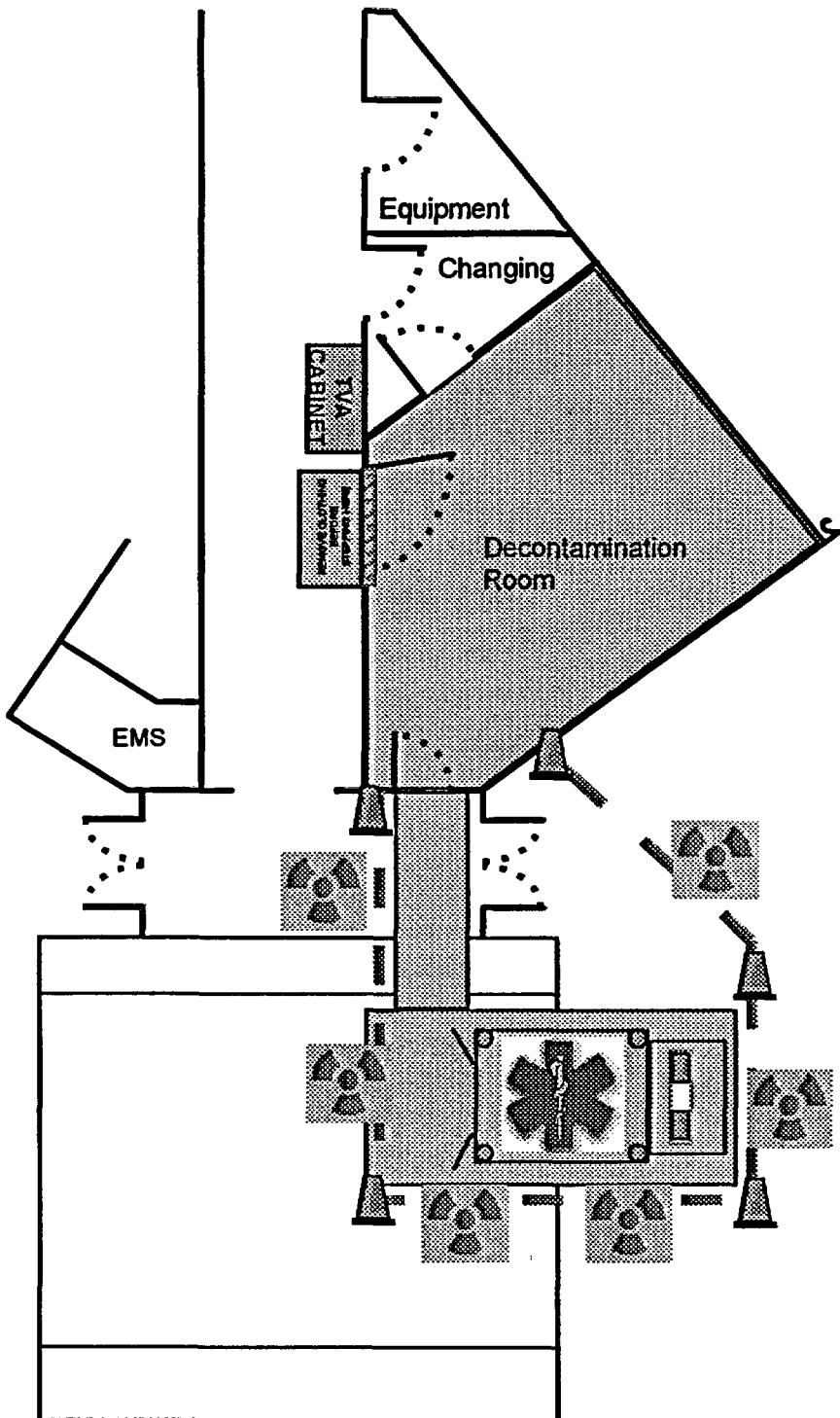


PRIMARY ROUTE:

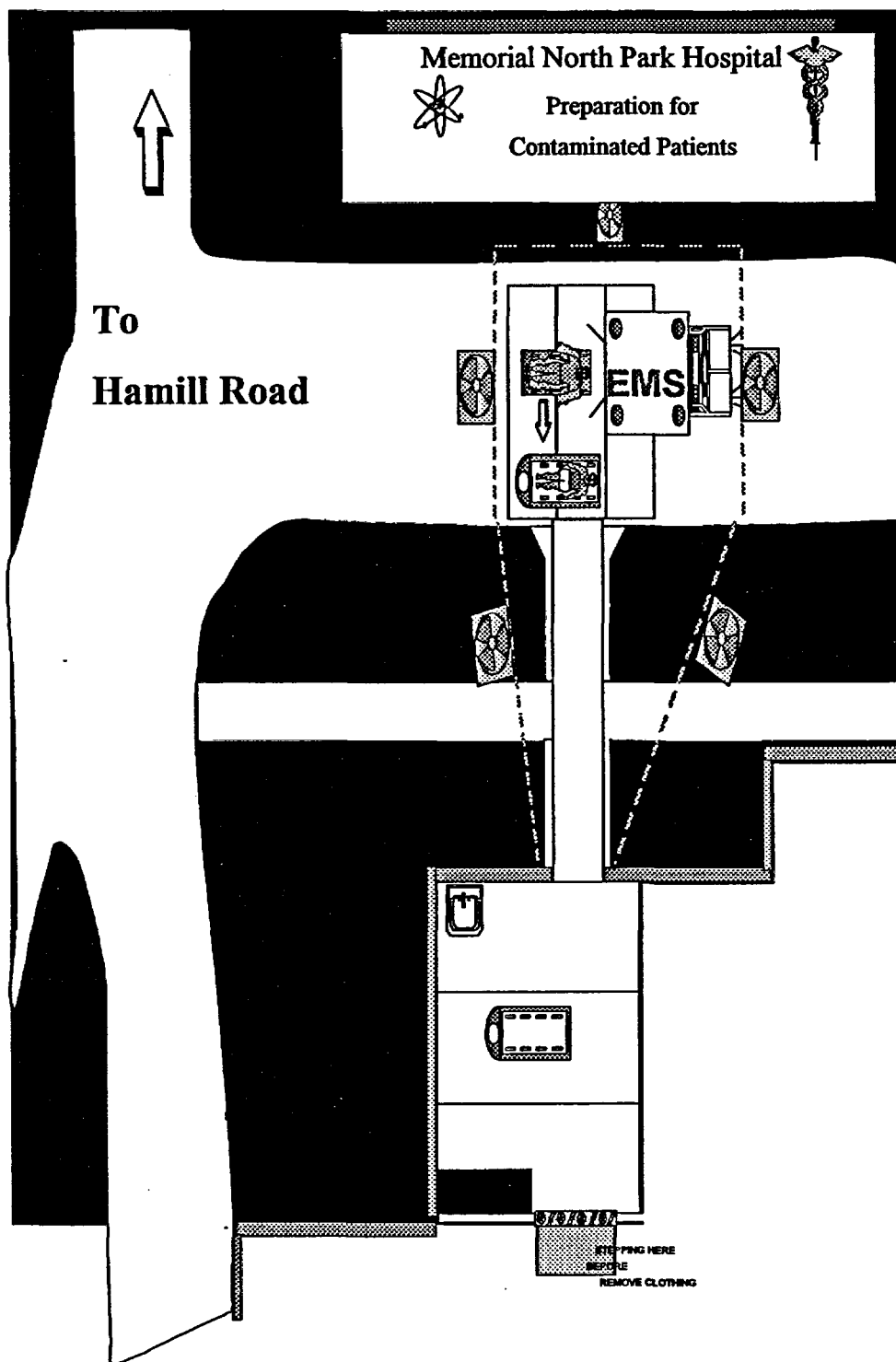
- Leave SQN via Sequoyah Road to Highway 27 (~6.3 miles)
- Turn **LEFT** onto Highway 27 South towards Chattanooga
- Follow Highway 27 South for ~17.2 miles
- Exit at Exit No. 1C 4th Street - Downtown
- Follow 4th Street east for ~ 1.2 miles (becomes 3rd Street)
- Turn **LEFT** onto Blackford Street (follow **EMERGENCY** signs)

Appendix D, Maps
Page 2 of 4

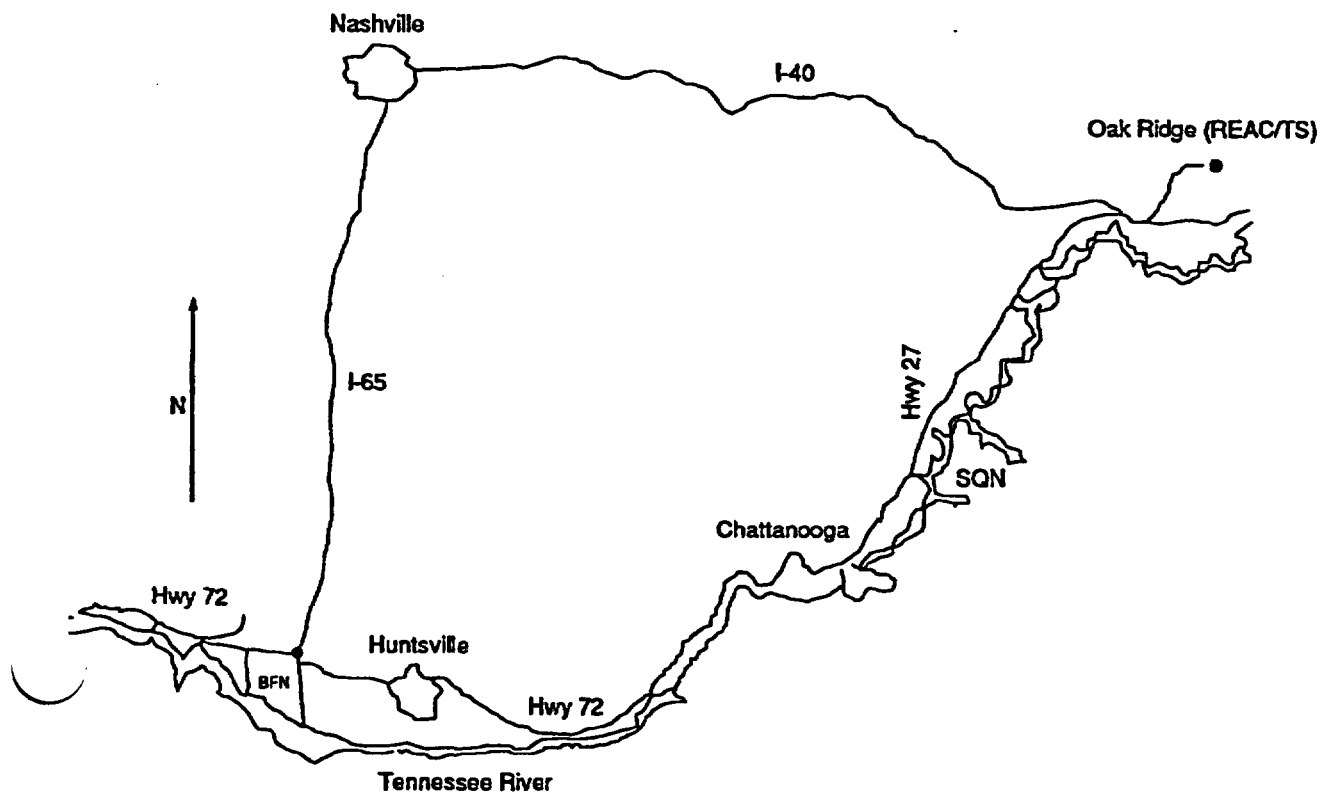
ERLANGER MEDICAL CENTER AREA



Appendix D, Maps
Page 3 of 4



Appendix D, Maps
Page 4 of 4



Sequoyah Nuclear Plant to REAC/TS
Via Hwy 27: Travel distance 110 Mi.
Travel time 1.5 Hrs at 70 mph

Appendix E, Hospital and Personnel Notification Report
Page 1 of 2

HOSPITAL AND PERSONNEL NOTIFICATION REPORT

The Shift Manager shall complete this form for individuals being transported to an agreement hospital (Memorial Northpark or Erlanger). He shall notify the destination hospital as soon as the need for off site transportation is determined.

Shift Manager _____

Date ____/____/____ Time _____ Hospital _____

Person Contacted _____ Title _____

MESSAGE TO THE HOSPITAL

Sequoyah Nuclear Plant will be sending _____ (number) injured person(s) to your hospital Emergency Department by _____ Ambulance _____ Lifeforce.

The victim(s) is:

☐ Confirmed, NOT a radiation accident victim - no radiological hazards exist (NOT contaminated and NOT irradiated).

☐ Radiological conditions are unknown at this time. (survey incomplete due to injuries or location)

☐ Contaminated with radioactive material

____ Externally at _____ CPM or _____ mrad.

____ Internally

☐ Irradiated in excess of 5 rem - Expected Exposure of _____ Rem.

Medical condition and ETA should be provided by the EMT upon departure from the site.

☐ Confirmation call- back from the Hospital received.

☐ SQN Plant Management notified.

☐ SQN Industrial Safety notified.

☐ ODS Notified of any Ambulance traffic to or from site.

☐ Employee's Manager Notified.

☐ SPP 3.5 Notifications Complete.

ROUTE COMPLETED FORM TO EP MANAGER FOR RETENTION

Appendix E, Hospital and Personnel Notification Report
Page 2 of 2

HOSPITAL AND PERSONNEL NOTIFICATION LIST

A. SEQUOYAH EMERGENCY NUMBERS

Fire/Medical Emergency	- 3911
Fire Operation Unit	- 7447 or 7448, Pager #90333
Health Station (DS/N)	- 8026 or 8027
Nuclear Security	- 6144 or 6184
Shift Manager	- 7860 or 7211
Radiological Control	- 7865 or 6160
Industrial Safety	- 6647

B. SEQUOYAH NURSING STAFF (Home Telephone Numbers)

Andy Miller, RN, ONP (Supervisor)	842-7005	Hixson, TN
Carolyn O'Brien, RN	842-5470	Hixson, TN

C. SNQ AMBULANCE

7447 or Cellular Telephone 667-6274

D. LOCAL AGREEMENT AMBULANCE SERVICE

Hamilton County Ambulance	Erlanger Lifeforce
(423) 622-7777	(423) 778-5433
Alternate: 911	Alternate: 1-800-523-6723

MEDCOM - #633 (from Cell Phone)
OR 778-9633

NOTE: Inform Lifeforce that communications
will be via the TN EMS Mutual Aid
Frequency 155.205MHz

E. AGREEMENT HOSPITALS

Memorial North Park Hospital	Erlanger Medical Center
2051 Hamill Road	975 East Third Street
Chattanooga, TN 37343	Chattanooga, TN 37403
(423) 495-7164 (24 hours) or	(423) 778-7296 (24 hours)
(423) 495-7100	(423) 778-4343

F. REAC/TS, OAK RIDGE, TENNESSEE

Commercial (0800-1630)	(865) 576-3131
24 hour Emergency - DOE EOCC	(865) 576-1005
NP Radiological Emergency Plan (NP-REP)	

TENNESSEE VALLEY AUTHORITY
SEQUOYAH NUCLEAR PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EPIP-12

EMERGENCY EQUIPMENT AND SUPPLIES

REVISION 2

PREPARED BY:	BILL PEGGRAM
RESPONSIBLE ORGANIZATION:	EMERGENCY PREPAREDNESS
APPROVED BY:	J. RANDY FORD
EFFECTIVE DATE:	October 1, 2003
LEVEL OF USE:	REFERENCE USE

QUALITY-RELATED

Revision History

<u>REV</u>	<u>DATE</u>	<u>REVISED PAGES</u>	<u>REASON FOR CURRENT REVISION</u>
0	08/30/2002		Renumbered procedure which was EPIP-17 to EPIP-12, changed records section for standardization purposes. Moved the flashlight bulbs from App. D to App. I so spare flashlight bulbs and batteries would be on the same inventory. Removed FRED Manuals and CECC Information Systems Manuals and replaced SQN and TVA phone directories with TVA phone list for more current listings from the TSC & OSC Inventories, App. H & I respectively. Changed NOMS to eSOMS and added WWM to MSS slot on OSC Inventory, App. I. Changed the number of the Team Tracking Status Boards to from one to two to reflect physical layout. Added 2 flashlights to Appendix I. Changed the location of the 12 SCBAs and associated equipment from the Relay Room outside the TSC to the Main Control Room Area on App. K. Changed titles of appendices to match the Table of Contents. Other small format editorials were made.
1	03/03/2003		Standardized retention of records in Sect. 4.2 from two to three years. Added misc. supplies and expiration date for Zeolite Cartridges to App C. Added portions of communications tests and inventories from 0-PI-REM-244-002.Q Quarterly Testing Of Emer. Response Facility Communications Equip. and all of 0-PI-REM-244-001.0 Monthly Testing Of Emergency Response Facility Communications Equipment to EPIP-12 for standardization forming Appendices L & M and removed of 0-PI-REM-244-001.0 from App. K. Moved portable Satellite phone from App. I to App. H. Added Sample Map in App. H. In App. H&I changed to verify revisions with EPIL-1 instead of CECC EPIP-9. Added office supplies and procedures to App. H&I. Added items to LRC App J. Added App. N for Quarterly Administrative Reviews.
2	10/01/2003	ALL	Intent Change. General Revision for format and content standardization.

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1.0 INTRODUCTION

The purpose of this instruction is to comply with the requirements of the Radiological Emergency Plan for periodic inspection and maintenance of equipment and supplies.

2.0 REFERENCES**2.1 Industry Documents**

- A. NRC Regulatory Issue Summary 2000-11: NRC Emergency Telecommunications System
- B. 10CFR50, Appendix E, Emergency Planning and Preparedness for Production and Utilization Facilities Part IV.E.9.d
- C. NUREG 0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants
- D. NUREG-0696, Functional Criteria for Emergency Response Facilities
- E. TVA Nuclear Radiological Emergency Plan
- F. CECC EPIP-9, Emergency Environmental Radiological Monitoring Procedures

3.0 INSTRUCTIONS**3.1 Conduct of Inventories**

- A. The individuals performing the inventory shall complete the appendices as indicated and make arrangements to correct any items found unsatisfactory.
- B. Completed appendices will be forwarded prior by the end of the quarter in which they are due to the Emergency Preparedness Manager for review.
- C. The Emergency Preparedness Manager is responsible for ensuring the overall state of readiness of supplies and equipment identified in this procedure.
- D. List any deviations and the disposition on the appropriate Appendix Data Sheet. Deficient outdated or missing items shall be replaced as soon as possible.
- E. Personnel conducting tasks will provide legible documentation of results.
- F. In addition to this frequency schedule, special inventories are indicated when items or equipment maintained by this procedure have been affected by a drill, exercise, or training. This special inventory will be performed at a reasonable time following the activity. This special inventory may also be used as the routine inventory.
- G. A copy of the most recent inventory of the equipment should be posted on the outside of the cabinet where a posting device has been provided.

3.2 Completion of Appendices

- A. A checkmark in the "SAT" column will represent that the item being inventoried meets the operable condition and/or minimum quantities were observed.
- B. If the "As Found" condition of items differ from the expected condition, comments in the "Remarks" column of the appendix should be recorded and in enough detail to leave no doubt as to the conditions found and actions taken. Comments such as the following - "batteries missing" do not document the full action taken allow a person to determine what, if any, action has been taken. Comments should read for example: "Batteries missing, replaced on Feb 5, 04".
- C. All unexpected "As Found" conditions shall be corrected as soon as possible. If circumstances do not allow prompt correction, the Emergency Preparedness Manager shall be notified. Once the condition(s) has been corrected, the applicable form will be signed.
- D. Special checks of certain material in the cabinets shall be performed. The following checks shall be made where applicable:
 - 1. The protective clothing and heat/moisture sensitive materials shall be checked for deterioration.
 - 2. The smoke tubes and aspirator bulbs shall be checked for deterioration and that the tubes have not been broken or used.
 - 3. Replace all flashlight batteries at the end of shelf-life with fresh batteries. (Do not discard batteries. Return them to the tool room.)
 - 4. Check to determine that flashlights are operable.
- E. The emergency equipment stored in cabinets may be provided with a lock or plastic seal as a means of controlling access or determining that the cabinet has not been opened.
- F. Equipment in certain cabinets is separated into Table A and Table B. Table A is a list of all non-perishable items stored in a small metal box equipped with a security seal within the cabinet itself. These items will be inventoried annually (preferably in January) and whenever a security seal has been found to be violated. Those items listed in Table B of these attachments are inventoried on a quarterly basis.
- G. "As found" quantities at less than minimum specified generally do not rise to the levels described in SPP 3.1 if promptly corrected. However, any items deemed to meet the criteria of SPP 3.1 shall be documented under SPP 3.1.

3.3 Responsible Organizations

Responsible Organizations (as designated below) shall conduct inventories at the specified frequencies.

Apdx	Frequency	Description	Responsible Org.
A	Calendar Quarter	Technical Support Center	EP
B	Calendar Quarter	Operations Support Center	EP
C	Calendar Quarter	Main Control Room	EP
D	Calendar Quarter	Local Recovery Center	EP
E	Calendar Quarter	Radiological Monitoring Equipment	RadCon
F	Calendar Quarter	Onsite Decontamination	RadCon
G	Calendar Year	Protective Clothing - MCR Corridor Cabinet	RadCon
G	Calendar Year	Protective Clothing - Communications Room	RadCon
G	Calendar Quarter	Protective Clothing - 6.9kV Shutdown Board Room	RadCon
G	Calendar Quarter	Protective Clothing - OSC Response Team Equipment	RadCon
H	Calendar Quarter	Agreement Hospital Cabinet Inventory	Corp EP
I	Monthly (per REP)	Monthly Testing Of Communications Equipment	EP
J	Quarterly (per REP)	Quarterly Administrative Checks And Reviews	EP
K	Calendar Quarter	Inventories Performed in other Procedures	EP
L	Calendar Quarter	Emergency Dosimetry	RadCon

3.4 Special Inventories

In addition to the frequency schedule in Section 3.3, special inventories are indicated when items or equipment maintained by this procedure have been affected by a drill, exercise, or training. This special inventory will be performed at a reasonable time following the activity. This special inventory may also be used as the routine inventory.

4.0 RECORD RETENTION**4.1 Records of Classified Emergencies**

The materials generated in support of key actions during an actual emergency classified as an Alert or higher are considered Lifetime retention Non-QA records. Materials shall be forwarded to the EP Manager who shall submit any records deemed necessary to demonstrate performance to the Corporate EP Manager for storage.

4.2 Drill and Exercise Records

The materials deemed necessary to demonstrate performance of key actions during drills are considered Non-QA records. These records shall be forwarded to the EP Manager who shall retain records deemed necessary to demonstrate six-year plan performance for six years. The EP Manager shall retain other records in this category for three years. The Appendices/Checklists in this Instruction are NON-QA documents and will be retained by the SQN Emergency Planning (EP) Manager for at least three years.

5.0 ILLUSTRATIONS / APPENDICES

Appendix A	Technical Support Center
Appendix B	Operations Support Center
Appendix C	Main Control Room
Appendix D	Local Recovery Center
Appendix E	RADCON Equipment
Appendix F	Onsite Decontamination Supplies
Appendix G	Protective Clothing
Appendix H	Agreement Hospital Cabinet Inventory
Appendix I	Monthly Testing Of Communications Equipment
Appendix J	Quarterly Administrative Checks and Reviews
Appendix K	Review of Inventories Performed by other Procedures
Appendix L	Emergency Dosimetry

APPENDIX A

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TECHNICAL SUPPORT CENTER (TSC)

SUPPLIES

SAT	Min	Description	Remarks
	Asrtd	Office/Desktop Supplies	
	Asrtd	Dryboard Supplies	
	6	Calculators, (Scientific)	
	12	Flashlights	
	24	Batteries (D-Cells) Best used by Date: ____ / ____	
	24	Batteries (AA) Best used by Date: ____ / ____	
	4	Telephone Headsets (on desks)	
	3	Telephone Headsets (Spares)	
	12	Grease Pencils	
	4 pk	Copier Paper	
	1 Roll	Thermal Paper for Tracking Board	
	2	ASME Steam Tables	
	1	Accountability Roster (Current Rev)	
	1 ea	TSC Position Notebooks - Check for uncontrolled or out-of-date materials (in notebooks or TSC areas)	

MAPS

SAT	Min	Description	Remarks
	1	2 Mile Map Latest Rev. ____	Verify wall maps are the latest revision (see EPII-1)
	1	10 Mile Evac Sect. Map Latest Rev. ____	
	1	10 Mile Sample Point Map Latest Rev. ____	
	1	50 Mile Sample Point Map Latest Rev. ____	

COMMUNICATIONS BRIDGES

SAT	Description						Remarks
	Verify bridges are functional by calling numbers listed on two phones and ensuring clear communications.						
	√	#	Bridge	√	#	Bridge	
		101	Ops Bridge - Talk		104	Maintenance	
		102	Ops Bridge - Listen		6406	OSC Teams	
		103	RadCon Bridge				

(Continued next page)

Completed By _____ Date: _____

APPENDIX A
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TECHNICAL SUPPORT CENTER (TSC)

FUNCTIONAL CHECKS

SAT	Description	Remarks
	Verify Key Phones for TSC are functional by calling numbers listed in the REND (Forward corrections to Corporate EP as part of quarterly REND validation)	
	Verify CECC ring-down is functional by calling CECC Director Position	
	Verify Fixed Satellite Phone is functional by calling known good phone	
	Verify Portable Satellite Phone is functional by calling known good phone	
	Verify CECC Terminal/Printer is functional by printing current Met Data	
	Verify copier is functional by copying a page	
	Verify Electronic Display Projectors functional	
	Verify Zetron Radio is functional using handheld radio	
	Verify Incoming Fax is functional by faxing to Outgoing Fax	
	Verify Outgoing Fax is functional by faxing to Incoming Fax	
	Verify clocks are functional by checking current time	
	Verify signs are functional by changing to one or more classifications and observing	
	Verify TSC Printer is functional by printing test page	
	Verify all ICS/Wide Area Network Terminals are functional by checking ICS or EP Website as appropriate	
√	Position	√ Position
	Operations Mgr.	Ops Comm. #1 TAT 1 ICS
	Chemistry Mgr	Ops Comm. #2 TAT 2 ICS
	RadCon ICS	Maintenance Mgr TAT 3 ICS
	RadCon WAN	Site Vice Pres. TAT 4 ICS
	NRC Room	Logkeeper TAT TEC ICS
		TAT DISPLAY

(Continued next page)

Completed By _____ Date: _____

APPENDIX A
Page 3 of 4

TECHNICAL SUPPORT CENTER (TSC)

SITE WIDE PA SYSTEM

SAT	Description								Remarks
	VERIFY operability ERF Public Address System by completing the following steps:								
	DIAL x4900 from TSC EP Manager's telephone.								
	BROADCAST the following message "This is a test of the REP PA system". Repeat message.								
	CONTACT plant personnel at a minimum of three of the specified locations below (each quarter) to confirm that the message was heard.								
	Jan-Mar		Apr-Jun		Jul-Sep		Oct-Dec		
	O&PS 1st		Solar Lunch		STC 1st		DSB East		
	O&PS 2nd		Solar 1st		STC 2nd		DSB West		
	O&PS 3rd		Solar 2nd		MPB		TEACP		
	O&PS 4th								

EMERGENCY CENTER PA SYSTEM

SAT	Description		Remarks
	VERIFY operability ERF Public Address System by:		
		ACTIVATE the system from the TSC by dialing x4825 (OSC) or x4826 (Labs) from the podium or other appropriate TSC phone	
		BROADCAST "This is a test of the REP PA system".	
		CALL each remote location at the phone numbers indicated to confirm that message was heard.	
		OSC (x6436)	
		RADCON Lab (x7865)	
		Chem Lab (x6438)	

(Continued next page)

Completed By _____ Date: _____

APPENDIX A
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TECHNICAL SUPPORT CENTER (TSC)

PROCEDURES

SAT	Min	Description	Remarks
	4	REP (Radiological Emergency Plan)	<u>Verify presence only</u> <u>(DCU controls contents)</u>
	2	REND	
	2	CECC EIPs	
	4	SQN EIPs	
	4	Severe Accident Management Guidance (SAMGs)	
	3	SAMG Lesson Plans	
	2	Functional Restoration Guidelines	
	2	Emergency Instructions	
	2	Emergency Abnormal Procedures (EAPs)	
	2	Emergency Contingency Actions (ECAs)	
	2	WOG, ERG Maint Direct Work Item DW-97-002 (Emergency Response Guidelines, Bkgd Info)	
	1	Updated SQN FSAR	
	2	Unit 1 Technical Specifications	
	2	Unit 2 Technical Specifications	
	1	State of TN Multijurisdictional REP Response Plan	
	1	Sys Operating Manual/Sys Oper Instructions (SO/SOI)	
	1	Annunciator Response Manuals (AR)	
	1	Periodic Instructions (PI)	
	2	Abnormal Operating Procedures (AOP)	
	1	Technical Instructions (TI)	
	1	General Operating Instructions (GO)	
	1	SQN Offsite Dose Calculation Manual (ODCM)	
	1	SQN Process Control Program (PCP)	
	1	Radiological Control Instructions (RCI)	
	1	Fire Protection Report	
	1	Users Manual - Emergency Paging System	
	2	Users Manuals - Meteorological Data Print Program	
	1	Users Manual - Meteorological Data Display	
	1	Users Manual - ICS	
	1	Zetron Radio Manual	
	1 set	Drawings	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX B

Page 1 of 3

OPERATIONS SUPPORT CENTER (OSC)

SUPPLIES

SAT	Min	Description	Remarks
	Asrtd	Office/Desktop Supplies	
	Asrtd	Dryboard Supplies	
	6	Calculators	
	12	Flashlights	
	24	Batteries (D-Cells) Expires /	
	24	Batteries (AA) Expires /	
	4	Communication Headsets (on desks)	
	2	Communication Headsets (spares)	
	6	Batteries - Cordless Phone (Charged)	
	1	Digital Camera	
	4 Pk	Copier Paper	
	1 Roll	Thermal Paper for Tracking Board	
	2	Pagers	
	1	Accountability Roster (Current Rev)	
	1 ea	OSC Position Notebooks - Check for uncontrolled or out-of-date materials (in notebooks or OSC areas)	

PROCEDURES

SAT	Min	Description	Remarks
	1	SQN EPIPs	
	1	REND	
	1	Emergency Instructions	
	1	Emergency Abnormal Procedures (EAPs)	
	1	Severe Accident Management Guidelines (SAMG)	
	1	Emergency Contingency Actions (ECAs)	
	1	AOP-P.01 Loss of Offsite Power	
	1	User Manual - ICS	
	1 set	Drawings	

(Continued next page)

Completed By _____ Date: _____

APPENDIX B

Page 2 of 3

OPERATIONS SUPPORT CENTER (OSC)

FUNCTIONAL CHECKS

SAT	Description	Remarks
	Verify Key Phones for OSC are functional by calling numbers listed in the REND (Forward corrections to Corporate EP as part of quarterly REND validation)	
	Verify copier is functional by copying a page	
	Verify Zetron Radio is functional using handheld radio	
	Verify Fax is functional by faxing to EP Office	
	Verify clocks are functional by checking current time	
	Verify signs are functional by changing to one or more classifications and observing	
	Verify HIS-20 Terminal functional and HIS-20 loads	
	Verify OSC printer is working by printing a page	
	Verify Electronic Display Projectors functional by turning on and observing image	
	Verify all ICS/Wide Area Network Terminals are functional by checking ICS or EP Website as appropriate	
✓	Position	✓ Position
	Ops Advisor #1	DCRM
	Ops Advisor #2	Materials Coord
	eSOMS	RadCon

MAPS

SAT	Min	Description	Remarks
	1	2 Mile Map Latest Rev. _____	Verify wall maps are the latest revision (see EPII-1)
	1	10 Mile Evac Sect. Map Latest Rev. _____	
	1	10 Mile Sample Point Map Latest Rev. _____	

OSC PA SYSTEM

SAT	Description	Remarks
	VERIFY operability OSC Public Address System by completing the following steps:	
	VERIFY message understood from the Wired Microphone	
	VERIFY message understood from the Wireless Microphone	

(Continued next page)

Completed By _____ Date: _____

APPENDIX B
Page 3 of 3

OPERATIONS SUPPORT CENTER (OSC)

RADIOS

SAT	Min	Description	Remarks
	10	Hand held radios	
	10	Radio batteries	
	1	Radio battery charger	

ICE VESTS

SAT	Min	Description	Remarks
	12	Ice Vests	
	72	Ice Packs for Vests	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX C
Page 1 of 1

MAIN CONTROL ROOM (MCR)

NOTE:

Obtain Shift Manager approval before conducting testing on Main Control Room telephones or equipment.

SAT	Description	Remarks
	Test the Control Room Communicator portable phone by dialing a known good number.	
	Operations Duty Specialist (ODS) Ringdown Line: Pickup receiver to the "ODS Ringdown" telephone. When the ODS answers, tell him that this is a test and confirm clarity.	
	Main Control Room/SM EP Satellite Phone Link: Verify operability by pressing the "Satellite" programmed button on the Shift Manager's telephone. Once the dial tone is established, call Corporate EP Secretary @ 423-751-8580.	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX D

Page 1 of 1

LOCAL RECOVERY CENTER (LRC)

SUPPLIES

SAT	Min	Description	Remarks
	Asrtd	Office/Desktop Supplies	
	Asrtd	Dryboard Supplies	
	4	Calculators (Scientific)	
	12	Flashlights	
	2	Spare flashlight bulbs	
	24	Batteries (D-Cells) Expires /	
	4 Pk	Copier Paper (for Printer)	

FUNCTIONAL CHECKS

SAT	Description	Remarks
	Verify Key Phones for LRC are functional by calling numbers listed in the REND (Forward corrections to Corporate EP as part of quarterly REND validation)	
	Verify CECC Terminal/Printer is functional by printing current Met Data	
	Verify ICS Terminal is function by printing copy of REP Overview ICS screen	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX E

Page 1 of 1

RADCON EQUIPMENT

NOTE

Survey instrumentation, counting equipment, air samplers, dosimeters and other radiological control equipment is maintained in calibration by the Western Area Labs. Conduct of this inventory does include verification that instruments are within calibration dates.

RADIOLOGICAL CONTROL LABORATORY - SERVICE BUILDING

SAT	Min	Description	Remarks
	1	Alpha Survey Meter (500,000 cpm)	
	1	Neutron dose rate survey meter (5,000 mR/hr)	
	2	High Range Survey Instrument (1,000 R/hr with extendible probe)	
	6	ION Chamber Survey Meters (50 R/h)	
	1	ION Chamber Survey Meter (20,000 R/h)	
	10	Frisker Type Survey Meters (50,000 cpm)	
	1	Portable Scaler	
	1	Shielded Detector	
	5	High volume Air Samplers (and support eqpt)	
	5	Low-volume Air samplers (and support eqpt)	
	5	Noble Gas Sampling Syringes	
	10	Silver Zeolite Cartridges NOTE: 10 year shelf life if packaging is unopened Date of Manufacture: ____ / ____	
	5	Marinelli Beakers	
	1 Bx	Smears	
	5	Calculators	
	8	Flashlights	
	16	Batteries (D-Cell) Expires: ____ / ____	
	2 Bx	Particulate Air Filters	
	12	Pens	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX F
Page 1 of 1

ONSITE DECONTAMINATION SUPPLIES

DECONTAMINATION ROOM EL. 690'

SAT	Min	Description	Remarks
	2 bx	Disposable Gloves	
	2 bx	Gauze Pads	
	1 pkg	Cotton Swabs	
	2 btl	Saline Solution	
	12	Surgical Brushes	
	2 btl	Shampoo	
	5 bar	Soap	
	1 bx	Laundry detergent	
	1 btl	Soap (liquid abrasive)	
	2 can	Mechanic's Hand Cleaner	
	1 can	Shaving Cream	
	5	Razors	
	1 bx	Paper Bath Towels	
	25	Towels	
	1 pr	Scissors	
	5	Petri Dishes	
	2 roll	Duct Tape	
	10 pr	Paper Coveralls	
	1 pair each size	Shoes (Sizes 7-12) half sizes are OK	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX G

Page 1 of 4

PROTECTIVE CLOTHING

NOTE:

Table A will be inventoried annually (preferably in January) and whenever a security seal has been found to be violated.

TABLE A - MAIN CONTROL ROOM CORRIDOR - CONTROL BUILDING EL. 734

SAT	Min	Description	Remarks
	12 pr	Rubber overshoes - Various sizes	
	12 pr	Rubber gloves - Various sizes	
	12 pr	Canvas gloves	
	12	Surgeon caps	
	12	Hoods	
	2	Boxes smoke tubes	
	2	Aspirator bulbs	
	4 roll	Duct tape and/or masking tape	
		Security seal replaced	

TABLE B - MAIN CONTROL ROOM CORRIDOR - CONTROL BUILDING EL. 734

SAT	Min	Description	Remarks
	12 pr	Pairs of paper overalls - Various sizes	
	12	Face Goggles	
	2	Flashlights	
	12	Flashlight batteries Best use by Date: ____ / ____	
	1	First-aid kit	
	1	ION Chamber Survey Meter (50 R/h)	
		Security seal replaced	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX G

Page 2 of 4

PROTECTIVE CLOTHING

NOTE:

Table A will be inventoried annually (preferably in January) and whenever a security seal has been found to be violated.

TABLE A - COMMUNICATIONS ROOM - CONTROL BUILDING EL. 685

SAT	Min	Description	Remarks
	6 pr	Rubber overshoes - Various sizes	
	6 pr	Rubber gloves- Various sizes	
	6 pr	Canvas gloves	
	6	Surgeon caps	
	6	Hoods	
	2	Boxes smoke tubes	
	2	Aspirator bulbs	
	4 roll	Duct tape and/or masking tape	
		Security seal replaced	

TABLE B - COMMUNICATIONS ROOM - CONTROL BUILDING EL. 685

SAT	Min	Description	Remarks
	6 pr	Pairs of paper overalls - Various sizes	
	12	Face Goggles	
	2	Flashlights	
	12	Flashlight batteries Best use by Date: ____ / ____	
	1	First-aid kit	
		Security seal replaced	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX G

Page 3 of 4

PROTECTIVE CLOTHING

6.9KV SHUTDOWN BOARD ROOM - AUXILIARY BUILDING UNIT 2 EL. 734

SAT	Min	Description	Remarks
	40 pr	Coveralls - Various sizes	
	25 pr	Cotton liners	
	25 pr	Rubber gloves - Various sizes	
	25 pr	Plastic booties	
	25 pr	Rubber overshoes - Various sizes	
	25	Surgeon caps	
	25	Hoods	
	8 rolls	Duct Tape and/or Masking Tape	
	1	Box of vinyl gloves	
	6 pr	Canvas gloves	
	2	Flashlights	
	12	Flashlight batteries Best use by Date: ____ / ____	
		Security seal replaced	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX G

Page 4 of 4

PROTECTIVE CLOTHING

OSC STORAGE AREA - PLANT OFFICE BUILDING EL. 706

SAT	Min	Description	Remarks
	40 pr	Coveralls - Various sizes	
	25 pr	Cotton liners	
	25 pr	Rubber gloves - Various sizes	
	25 pr	Plastic booties	
	25 pr	Rubber overshoes - Various sizes	
	25	Surgeon caps	
	25	Hoods	
	8 rolls	Duct Tape and/or Masking Tape	
	2000 doses	Potassium Iodide Tablets (Expires: ____/____/____) (#Pkgs * #Tablets/pkg = #doses)	
		Door Relocked	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX H

Page 1 of 2

AGREEMENT HOSPITAL CABINET INVENTORY

☐ ERLANGER ☐ NORTH PARK

SAT	Min	Description	Remarks
	10 pr	Shoe covers	
	10 pk	Dress out packages (coveralls, booties, gloves)	
	3	Surgical gowns	
	2 bx	Surgical gloves	
	4 rolls	Surgical tape for dressout - 2 inch	
	1 set	Floor coverings (hospital specific)	
	1 roll	Heavy duty paper (3 foot wide)	
	2 rolls	2 inch duct tape	
	1 roll	Radiation Warning symbol tape (2 inch)	
	2	Step off pads	
	8	Radiological barrier posting signs	
	1	Radiological barrier rope or ribbon (spool)	
	5	Traffic cones	
	10	Large rad waste plastic bags (trash can size)	
	10	Medium rad waste plastic bags (x-ray cassette size)	
	1	Radioactive material label tape	
	1	Decontamination table, backboard and bottles (min. total capacity of 10 gallons)	
	1	Flexible funnel with drain hose - optional	
	1	Decontamination media /soap product	
	12	Cotton swabs	
	20	Zip lock bags for sample collection	
	10	Labels for sample bags	
	2	Scissors	
	1	Wall poster with decontamination steps	

(Continued next page)

Completed By _____ Date: _____

APPENDIX H

Page 2 of 2

AGREEMENT HOSPITAL CABINET INVENTORY

☐ ERLANGER☐ NORTH PARK

NOTE

Survey instrumentation, counting equipment, air samplers, dosimeters and other radiological control equipment is maintained in calibration by the Western Area Labs. Conduct of this inventory does include verification that instruments are within calibration dates.

SAT	Min	Description	Remarks
	2	Hospital specific booklet (1 at desk, 1 in cabinet) Last Update: ____ / ____ / ____	
	1	NCRP # 65 Reference Handbook	
	10	TLDs	
	1	Wound probe with cable	
	10	Electronic dosimeters and tray	
	200	Smears	
	12	Radioactive Material tags	
	1	Masslin mop and 20 cloths	

SAT	Min	Description	Serial Number	Calibration Due
	1	Bicron Surveyor 50		
	1	Bicron Surveyor 50		
	1	Bicron ISM (RSO-5 or 50)		

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX I

Page 1 of 2

MONTHLY TESTING OF COMMUNICATIONS EQUIPMENT

NOTE:

Obtain Shift Manager approval before conducting testing on Main Control Room telephones or equipment.

TECHNICAL SUPPORT CENTER

SAT	Description	Remarks
	VERIFY operability NRC ENS System by calling NRC on the main Emergency Notification System (ENS) line (TSC Operations Manager Position) and confirming dial tone on others.	
	Dial the number on the sticker on the phone in the TSC. Tell NRC that "this is a test of the TVA SQN ENS line". Ensure that communications are understandable	
	Request that the NRC return your call and supply appropriate telephone number	
	VERIFY return call received	
	VERIFY dial tones at the following TSC locations	
	TSC – Health Physics Network (HPN)	
	NRC - Reactor Safety Counterpart Link (RSCL)	
	NRC - Protective Measures Counterpart Link (PMCL)	
	NRC – Management Counterpart Link (MCL)	
	NRC – Emergency Notification System (ENS)	
	NRC - Health Physics Network (HPN)	
	NRC – Local Area Network (LAN) dial-up line	

MAIN CONTROL ROOM

SAT	Description	Remarks
	VERIFY conducting MCR test after actual call is made to NRC using one of the TSC NRC ENS telephones.	
	VERIFY operability by confirming dial tone on three NRC ENS phones in the MCR.	
	SM position	
	U1	
	U2	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX I
Page 2 of 2

MONTHLY TESTING OF COMMUNICATIONS EQUIPMENT

WARNING: Special Handling required for Equipment Problems

For any NRC telephone equipment or system determined inoperable, initiate a Work Request (WR) or Service Request (SR), as applicable, to ensure that it is repaired in a timely manner. Notify NRC at 9-1-301-951-0550 of equipment problems and ongoing repair efforts.

Maintenance and Service Requests

- Document trouble ticket, WR, or SR number in Remarks section.
- Document the equipment's return to operable status in the Remarks section
- Post Repair Testing - After being notified that the trouble ticket, WR, or SR has been completed on inoperable equipment, test the equipment using the applicable step in this procedure to ensure its operability.
- Notify the Shift Manager and NRC (at the above number) of the repairs.
- Make a copy of the completed Appendix, attach any notes, and file in SQN EP files.

APPENDIX J
Page 1 of 1

QUARTERLY ADMINISTRATIVE CHECKS AND REVIEWS

EPIP TELEPHONE NUMBERS

SAT	Description	Remarks
	REVIEW the phone numbers in the SQN EIPs once per quarter for accuracy.	
	REVISE any procedures that have incorrect phone or pager numbers.	

Completed By _____ Date: _____

CALL LISTS

SAT	Description	Remarks
	SEND the phone numbers in the SQN REP Call List out to representatives of organizations to review and correct phone numbers and pager numbers..	
	DISTRIBUTE corrected copies to Main Control Room, TSC, OSC, Simulator, and place one in the EP department files.	

Completed By _____ Date: _____

ACCESS LIST

SAT	Description	Remarks
	PRINT and DISTRIBUTE new copies to SQN Access Portal, SQN site check point and place one in the EP department files.	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX K

Page 1 of 1

REVIEW OF INVENTORIES PERFORMED BY OTHER PROCEDURES

AMBULANCE MEDICAL SUPPLIES: (FIRE OPERATIONS)

0-PI-FPU-317-301.M performed

Date: _____

SCBA INVENTORIES: (FIRE OPERATIONS)

0-PI-FPU-049-401.M performed

Date: _____

Review to ensure the following equipment is available:

Main Control Room Area (EL 732) :

- 12 Self-contained breathing apparatus
- 12 Additional air cylinders
- 2 Small MSA face pieces
- 2 Large MSA face pieces

SERVICE BUILDING EL 690 (PASF Units):

- 8 Dual Purpose self-contained breathing apparatus
- 4 Dual Purpose Airline Hoses
- 3 Small MSA face pieces
- 3 Large MSA face pieces

SERVICE BUILDING EL 690 (RADCON AND RADCHEM LABS):

- 16 Self-contained breathing apparatus

SERVICE BUILDING (EL. 706) FIRE EQUIPMENT CAGE

- 6 Self-contained breathing apparatus
- 12 Additional cylinders

EMERGENCY VAN SUPPLIES: (RADCON)

CECC-EPIP 9 Appendix J performed

Truck 2

Date: _____

Truck 3

Date: _____

QUARTERLY COMMUNICATIONS EQUIPMENT: (EP MANAGER)

0-PI-REM-244-002.Q performed at least one per van per quarter

Date: _____

QUARTERLY TOOL ROOM TOOL KITS: (TOOL ROOM)

0-PI-REM-000.001.Q performed

Date: _____

TELECOM EQUIPMENT: (TELECOM)

Quarterly Testing of Diesel Generator/Battery Power Supply for the
Node Building

Date: _____

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX L
Page 1 of 1

EMERGENCY DOSIMETRY

PACKAGES FOR ACCESS CONTROL POINT

SAT	Min	Description	Remarks
	25	Packets each containing the following: <ul style="list-style-type: none">• Protected Area Access Badge• TLDs (Verify Current Quarter)• Self-Reading Dosimeter (Rezero)• Potassium Iodide Tablet (in Foil packet)• Emergency Worker Information Card	

PACKAGES FOR PERIMETER SECURITY CHECKPOINT

SAT	Min	Description	Remarks
	50	Packets each containing the following: <ul style="list-style-type: none">• Owner Controlled Area Access Badge• TLDs (Verify Current Quarter)• Self-Reading Dosimeter (Rezero)• Potassium Iodide Tablet (in Foil packet)• Emergency Worker Information Card	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____