

ATTACHMENT 1

EP-IP-101

INVENTORY, INSPECTION, OPERATIONAL TESTING, AND  
CALIBRATION OF EMERGENCY EQUIPMENT AND SUPPLIES

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# PROCEDURE COVER SHEET

PENNSYLVANIA POWER & LIGHT CO. SUSQUEHANNA STEAM ELECTRIC STATION		EP-IP-101 Revision 0 Page 1 of 56
INVENTORY, INSPECTION, OPERATIONAL TESTING, AND CALIBRATION OF EMERGENCY EQUIPMENT AND SUPPLIES		
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# CONTROLLED

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## 1.0 PURPOSE

The purpose of this procedure is to provide a means of maintaining a complete inventory of required emergency equipment at all times:

## 2.0 SCOPE

This procedure defines the various inventories of emergency equipment, the division of responsibilities for maintaining the inventories with required record-keeping, and the method and frequency of review and confirmation of such established inventories.

## 3.0 REFERENCES

- 3.1 NUREG-0654/FEMA REP-1 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants
- 3.2 10 CFR 50 Appendix E
- 3.3 SSES Emergency Plan
- 3.4 EP-IP-006 Search/Rescue/First Aid
- 3.5 EP-IP-012 On-Site Emergency Monitoring
- 3.6 EP-IP-013 Off-Site Emergency Monitoring Teams
- 3.7 EP-IP-016 Damage Control
- 3.8 AD-00-760 Performance Evaluation Program and Administrative Controls for Health Physics Instrumentation
- 3.9 Radiation Management Corporation Emergency Medical Assistance Program (as confirmed by 1/20/82 Letter of Agreement to Bruce D. Kenyon, Vice President-Nuclear Operations)
- 3.10 AD-00-540 Preventative Maintenance System
- 3.11 DDI-399 SSES Public Notification System: Test and Maintenance
- 3.12 SSES FSAR
- 3.13 EP-IP-102 Surveillance Testing of Emergency Telecommunications Equipment

#### 4.0 RESPONSIBILITIES

- 4.1 Nuclear Support, under the direction of the Manager - Nuclear Support, is responsible for:

- 4.1.1 Overall inventory and maintenance of emergency equipment and supplies
- 4.1.2 Ensuring the performance of functional testing of pagers not tested under Plant Administrative procedures in accordance with EP-IP-102 Surveillance Testing of Emergency Communications Equipment.
- 4.1.3 Documenting all functional tests performed with results and submitting these documents to the SNEP.

NOTE: The SNEP will be responsible for filling out the PMIS PM Worklist after receiving these documented test results and returning the PM Worklist to the PMIS Center.

- 4.2 At the direction of the Manager-Nuclear Support, the Supervisor-Nuclear Emergency Planning (SNEP) is responsible for:

- 4.2.1 Completion and submittal of all Preventative Maintenance Worklists Input forms, Form AD-00-540-5, necessary to support this procedure.
- 4.2.2 Subsequent approval and submittal of all resulting Computer Approval Sheets necessary to support this procedure.
- 4.2.3 Ensuring the performance of a quarterly inventory review of emergency equipment and supplies maintained at the Emergency Operations Facility, Attachment A.
- 4.2.4 Ensuring the performance of operational tests of EOF emergency communication equipment in accordance with EP-IP-102 Surveillance Testing of Emergency Communications Equipment.
- 4.2.5 Ensuring the performance of operational testing of the Public Notification System as required by 10 CFR 50 Appendix E and DDI-399 SSES Public Notification System: Test and Maintenance.
- 4.2.6 Maintaining records of all inventories, inspections and operational tests of emergency equipment and supplies and communication drills performed.

4.2.7      Reviewing inventory, inspection, and operational testing records of emergency equipment and supplies and communication drill records to ensure that identified deficiencies are corrected in a timely manner.

4.2.8      Completion and submittal of all PMIS PM Worklists under the direct responsibility of Nuclear Support per this procedure.

NOTE:      The Supervisor - Nuclear Emergency Planning has the authority to sign a PM waiver list for any emergency equipment.

4.3      The Distribution Department is responsible for:

4.3.1      Operational Testing of the Public Notification System with a frequency as required by 10 CFR 50 Appendix E and DDI-399 SSES Public Notification System: Test and Maintenance

4.3.2      Documenting all operational tests performed with results and forwarding these documents to the SNEP and to the Document Control Center for permanent record.

4.4      The Environmental Group - Nuclear under the direction of the Environmental Group Supervisor - Nuclear is responsible for:

4.4.1      Performing a quarterly inventory review of the Environmental Monitoring Kits (6 Kits), Attachment B.

4.4.2      Maintaining records of all inventory reviews performed by completing and forwarding Attachment B to the SNEP.

4.4.3      Completion and submittal of all PMIS PM Worklists under the direct responsibility of the Environmental Group - Nuclear per this procedure.

4.5      Nuclear Administration under the direction of the Manager-Nuclear Administration is responsible for:

4.5.1      Performing a quarterly inventory review of emergency equipment and supplies maintained at the General Office Nuclear Emergency Support Center, Attachment C.

4.5.2      Performing a quarterly inventory review of emergency equipment and supplies maintained at the General Office Engineering Support Center, Attachment D.

4.5.3      Maintaining records of all inventory reviews performed by completing and forwarding the inventory checklists, Attachments C, D to the SNEP.

- 4.5.4 Completion and submittal of all PMIS PM Worklists under the direct responsibility of Nuclear Administration per this procedure.
- 4.6 Radiation Management Corporation (RMC) is responsible for the inventory review and maintenance of the radiation emergency supplies and equipment maintained at Berwick Hospital, Attachment E, and Geisinger Medical Center, Attachment F on a semi-annual basis as per the 1/20/82 Emergency Medical Assistance Program Letter of Agreement to Bruce D. Kenyon, Vice President - Nuclear Operations. Health Physics will inventory these supplies during interim quarters to ensure a quarterly inventory review is performed.
- 4.7 Instrument and Controls (I&C) under the direction of the Instrument and Controls Computer Supervisor is responsible for:
  - 4.7.1 Scheduling and calibration of all portable radiation survey and air sampling instruments included in the inventory lists, Attachments E,F,G,H,I,J,K, and L, in accordance with AD-QA-620, "Portable Survey Equipment Calibration Program".
  - 4.7.2 Submitting records of all calibrations performed by I&C to the Document Control Center for permanent record.
- 4.8 Health Physics (HP) - under the direction of the Health Physics Supervisor is responsible for:
  - 4.8.1 Providing the I&C group with all portable radiation survey and air sampling instruments included in the inventory lists, Attachments E,F,G,H,I,J,K, and L as these instruments are scheduled for calibration by the I&C group.
  - 4.8.2 Calibration of all emergency laboratory counting instruments included in the inventory lists, Attachments G,H, and L, in accordance with HP-TP-249, "Calibration and Testing of Health Physics Counting Instruments"
  - 4.8.3 Calibration of all self reading dosimeters included in the inventory lists, Attachments E,F,G,H,I,J, and L, in accordance with HP-TP-213, "Direct Reading Dosimeters, Calibration Response, Drift Check and Leak Testing"
  - 4.8.4 Replacing TLD badges included in the inventory lists, Attachments E,F, and I, every quarter and turning them into the dosimetry group

Performing a semi-annual inventory review of the radiation emergency equipment and supplies maintained at Berwick Hospital and Geisinger Medical Center, Attachments E,F

(Radiation Management Corporation will inventory these supplies during interim quarters to ensure a quarterly inventory review is performed.)

- 4.8.5 Performing quarterly inventory review of the Health Physics van emergency equipment, Attachment G, off-site monitoring kits (10 kits), Attachment H, ambulance radiation emergency equipment kit, Attachment I, Control Room equipment, Attachment J, Station Decontamination Area Equipment, Attachment K and Emergency Operations Facility Decontamination Area and Health Physics Supplies, Attachment L.
- 4.8.6 Sealing off-site monitoring kits and ambulance radiation emergency equipment kits with a break away security seal --- after inventory.
- 4.8.7 Ensuring valid expiration dates exist on potassium iodide inventories.
- 4.8.8 Replacing non-rechargeable batteries in the portable survey instruments with new batteries.
- 4.8.9 Submitting records of all calibrations performed by Health Physics to the Document Control Center for permanent record.
- 4.8.10 Maintaining records of all inventories and inspections of emergency equipment and supplies performed by completing and forwarding the inventory checklists, Attachments E, F, G, H, I, J, K, and L to the SNEP.
- 4.8.11 ~~Completion and submittal of all PMIS PM Worklists under the direct responsibility of Health Physics per this procedure.~~

NOTE: The Health Physics Supervisor has the authority to sign a PM waiver list for emergency equipment under the responsibility of Health Physics.

- 4.9 Operations, under the direction of the Supervisor of Operations, is responsible for:

- 4.9.1 Operational testing of station emergency communication equipment in accordance with EP-IP-102 Surveillance Testing of Emergency Communications Equipment.
- 4.9.2 Documenting all operational tests performed with results and forwarding these documents to the SNEP.

- 4.9.3 Completion and submittal of all PMIS PM Worklists under the direct responsibility of Operations per this procedure.

NOTE: The Supervisor of Operations has the authority to sign a PM waiver list for any emergency equipment under the responsibility of Operations.

- 4.10 The Shift Technical Advisor Group under the direction of the Technical Supervisor is responsible for:

- 4.10.1 Ensuring the performance of a quarterly inventory review of the Technical Support Center equipment, Attachment M.
- 4.10.2 Maintaining records of all inventory reviews performed by completing and forwarding the inventory checklist, Attachment M to the SNEP.
- 4.10.3 Completion and submittal of the PMIS PM Worklists under the direct responsibility of the Shift Technical Advisor Group per this procedure.

NOTE: The Technical Supervisor has the authority to sign a PM Waiver list for any emergency equipment under the responsibility of the Shift Technical Advisor Group.

- 4.11 The Safety Consultant is responsible for:

- 4.11.1 Ensuring the performance of a quarterly inventory review of emergency on-site search and rescue first-aid equipment and supplies, Attachment N.
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- 4.11.2 Maintaining records of all inventory reviews performed by completing and forwarding the inventory checklist, Attachment N, to the SNEP.
- 4.11.3 Completion and submittal of the PMIS PM Worklists under the direct responsibility of the Safety Consultant per this procedure.

NOTE: The Safety Consultant has the authority to sign a PM waiver list for emergency equipment under his responsibility.

- 4.12 Mechanical Maintenance under the direction of the Supervisor of Maintenance is responsible for:

- 4.12.1 Ensuring the performance of a quarterly inventory review of emergency damage control equipment and supplies, Attachment 0.
- 4.12.2 Sealing the damage control equipment storage box with a break away security seal after inventory.
- 4.12.3 Maintaining records of all inventory reviews performed by completing and forwarding the inventory checklist, Attachment 0, to the SNEP.
- 4.12.4 Completion and submittal of the PMIS PM Worklists under the direct responsibility of Mechanical Maintenance per this procedure.

NOTE: The Supervisor of Maintenance has the authority to sign a PM waiver list for emergency equipment under the responsibility of the Mechanical Maintenance.

## 5.0 DEFINITIONS

- 5.1 OSC - Operations Support Center
- 5.2 TSC - Technical Support Center
- 5.3 EOF - Emergency Operations Facility
- 5.4 SNEP - Supervisor - Nuclear Emergency Planning
- 5.5 Health Physics Instrumentation: Instrumentation as defined in the FSAR, section 12.5, may be categorized as follows:

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- 5.5.1 Laboratory Counting Instrument: An instrument used to provide quantitative analysis of contamination and/or airborne activity, e.g. Ludlum 2218.
  - 5.5.2 Portable Radiation Survey Instrument: An instrument which possesses a self-contained power supply, which allows it to operate independently of an external power source, e.g. Eberline E-520, E-140N, etc.

- 5.5.3 Portable Air Sampling Instrument: An instrument used with various filter media to sample air during predetermined intervals for particulate and gaseous radionuclides, e.g. Radeco Low Vol
- 5.6 Self Reading Dosimeter: A portable pencil shaped ion chamber which records integrated gamma radiation exposure that can be read at any time.
- 5.7 TLD: A thermoluminescent dosimeter which must be heated in a special instrument to retrieve exposure information.
- 5.8 Communication Equipment: Any of the radio frequency equipment used for communications between the emergency support facilities and dispatched emergency teams or any of the telephone lines, hot lines, pagers, or public address systems used for emergency communications and notifications.
- 5.8.1 Hotline - A priority access voice communication link with automatic signaling established between the various emergency support facilities and off-site agencies.
- 5.8.2 Portable radio: A hand held, VHF radio used by the on-site monitoring team to communicate with the O.S.C., T.S.C., or E.O.F. or a hand held UHF radio used by various in-plant emergency teams to communicate with the O.S.C. or T.S.C.
- 5.8.3 Mobile Radio: A two way VHF base station radio installed in any of the emergency off-site monitoring vehicles or the Health Physics Van for communication with the O.S.C., T.S.C., or E.O.F.
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- 5.8.4 Page System - A communication system consisting of a paging encoder, which contains tone generating and control equipment, a radio transmitter installation, and a pocket-size paging receiver used to locate key personnel on and off-site.
- 5.9 Public Notification System - An early alert siren system consisting of 110 sirens ranging from 107 db to 125 db existing within the ten-mile Emergency Planning Zone (EPZ) around Susquehanna SES. Activation of the siren system is via radio control from Luzerne County Civil Defense and Columbia County Emergency Management Agency E.O.C.
- 5.10 Potassium Iodide (KI) tablets - A "thyroid blocking agent" which reduces the uptake of radioactive I-131 by the thyroid and therefore reduces the dose to the thyroid significantly.

- 5.11 PMIS - Plant Maintenance Information System is a computer based system intended to assist in the scheduling, tracking, and historical retention of work activities performed at Susquehanna SES.
- 5.12 PM Worklist - A method of preventative maintenance activity control which is a working document listing work activities or tasks to perform that do not affect system operability. This document is generated weekly and mailed from the PMIS center to each responsible section.
- 5.13 PM Waiver List - A weekly generated document which lists the preventative maintenance activities which have been waived in the last week. (unable to be performed due to extenuating circumstances). This list is completed by noting the reason a particular activity was waived and signed off by the responsible supervisor for that activity.

## 6.0 INSTRUCTIONS

### 6.1 Nuclear Support

- 6.1.1 Perform a functional test weekly of all non-station pagers in accordance with EP-IP-102 Surveillance Testing of Emergency Communications Equipment.
- 6.1.2 Document any problems or deficiencies that are noted during this test and forward a copy of these deficiencies to the SNEP.

### 6.2 Nuclear Emergency Planning

- 6.2.1 Complete and submit all Preventative Maintenance Worklist Input forms, Form AD-00-540-5, necessary to support this procedure to the PMIS center.
- 6.2.2 Approve and submit all resulting Computer Approval Sheets necessary to support this procedure to the PMIS center
- 6.2.3 Verify operation of the Emergency Operations Facility emergency communication equipment during communication drills in accordance with EP-IP-102 Surveillance Testing of Emergency Telecommunications Equipment.
- 6.2.4 Inventory and inspect all Emergency Operations Facility equipment and supplies every calendar quarter and after each use.
  - a. Inventory all Emergency Operations Facility equipment and supplies using Attachment A, "Emergency Operations Facility Equipment and Supplies"

Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

- b. Complete and file Attachment A
- c. Fill out the PMIS PM Worklist for Attachment A and return it to the PMIS center

6.2.5 Review completed inventory lists, Attachments A thru O to ensure identified deficiencies are corrected in a timely manner.

6.2.6 Fill out the PMIS PM Worklist for Attachments A,E,F and for documented test results for the pagers and submit them to the PMIS center.

### 6.3 Distribution Department

6.3.1 Verify operation of the Public Notification System's 110 sirens according to the following schedule as required by 10 CFR 50 Appendix E and DDI-399 SSES Public Notification System: Test and Maintenance

- a. Bimonthly: Perform an electrical test, which involves no sound, to show the siren controls were energized.
- b. Quarterly: Perform a growl test. Start the siren up and immediately shut it down. The siren will not reach its peak sound level in this test.
- c. Annually: Fully activate the sirens to verify that they reach peak sound production. This will enable a survey to be performed to determine the actual sound coverage throughout the 10 mile EPZ surrounding the plant.

6.3.2 Document all tests performed with results and submit these documents to the SNEP and to the Document Control Center for permanent record.

#### 6.4 Environmental Group-Nuclear

Inventory and inspect all six Environmental Monitoring Kits stored at the Biological Research Laboratory every calendar quarter and after each use.

- 6.4.1 Inventory all six Environmental Monitoring Kits using Attachment B, "Environmental Monitoring Kits". Complete a separate inventory sheet, Form EP-IP-101-2, for each kit and identify the kit number in the appropriate space provided on this form.

Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

- 6.4.2 Complete and forward Attachment B for each kit to the SNEP.

- 6.4.3 Fill out the PMIS PM Worklist for Attachment B and return it to the PMIS Center.

#### 6.5 Nuclear Administration

- 6.5.1 Inventory and inspect all General Office Nuclear Emergency Support Center Emergency Equipment and Supplies every calendar quarter and after each use.

- a. Inventory all General Office Nuclear Emergency Support Center Emergency Equipment and Supplies using Attachment C, "General Office Nuclear Emergency Support Center Emergency Equipment and Supplies"

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Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

- b. Complete and forward Attachment C to the SNEP.
- c. Fill out the PMIS PM Worklist for Attachment C and return it to the PMIS Center.

6.5.2 Inventory and inspect all General Office Engineering Support Center Emergency Equipment and Supplies every calendar quarter and after each use.

- a. Inventory all General Office Engineering Support Center Emergency Equipment and Supplies using Attachment D, "General Office Engineering Support Center Emergency Equipment and Supplies".

Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

- b. Complete and forward Attachment D to the SNEP.
- c. Fill out the PMIS PM Worklist for Attachment D and return it to the PMIS Center.

#### 6.6 Radiation Management Corporation

6.6.1 Inventory and inspect all Berwick Hospital radiation emergency equipment and supplies excluding survey instruments and dosimetry semi-annually and after each use.

- a. Inventory all Berwick Hospital radiation emergency equipment and supplies excluding survey instruments and dosimetry using Attachment E, "Berwick Hospital Radiation Emergency Equipment and Supplies."

Visually inspect all equipment excluding survey instruments and dosimetry and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

- b. Complete and forward Attachment E to the SNEP.

6.6.2 Inventory and inspect all Geisinger Medical Center radiation emergency equipment and supplies excluding survey instruments and dosimetry semi-annually and after each use.

- a. Inventory all Geisinger Medical Center radiation emergency equipment and supplies using Attachment F, "Geisinger Medical Center Radiation Emergency Equipment and Supplies"

Visually inspect all equipment excluding survey instruments and dosimetry and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

b. Complete and forward Attachment F to the SNEP.

#### 6.7 Instrument and Controls

6.7.1 Schedule all portable radiation survey instruments included in the inventory lists Attachments E,F,G,H,I,J,K,L for calibration on a quarterly basis.

-- 6.7.2 Calibrate all portable radiation survey instruments included in the inventory lists Attachments E,F,G,H,I,J,K,L in accordance with AD-QA-620, "Portable Survey Equipment Calibration Program".

6.7.3 Document all calibrations performed by I&C with results and submit these documents to the Document Control Center to be entered into the microfilm system for permanent record.

#### 6.8 Health Physics

6.8.1 Inventory station emergency Potassium iodide (KI) supplies stored in the Health Physics Emergency Equipment Room. Every calendar quarter to ensure an adequate stock is available and that expiration dates are current.

6.8.2 Inventory and Inspect all Health Physics Van radiation emergency monitoring equipment every calendar quarter and after each use.

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a. Inventory all Health Physics Van emergency equipment using Attachment G "Health Physics Van Radiation Emergency Monitoring Equipment"

(1) Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

(2) Verify that the expiration date on the potassium iodide tablets is not past due and also that it will not expire prior to the next required inventory. If the expiration date is past due or will expire prior to the next required inventory, replace the potassium iodide tablets with those

which have not and will not expire prior to the next required inventory.

- (3) Verify that instruments requiring calibration have been calibrated. If calibration has expired or will expire prior to the next required inventory, replace the instrument with a calibrated instrument which will not expire prior to the next required inventory. If the instrument with the expired calibration date is to be calibrated by the I&C group, deliver it to the I&C group to be recalibrated. Instruments to be recalibrated by the Health Physics group should be delivered to the Health Physics office.

- b. Replace all non-rechargeable batteries in the portable survey instruments with new batteries. Return replaced batteries to the Health Physics office.
- c. Complete and forward Attachment G to the SNEP.
- d. After inventory, fill out the PMIS PM Worklist for Attachment G and return it to the PMIS Center

6.8.3 Inventory and Inspect all ten emergency off-site monitoring kits stored at the EOF every calendar quarter and after each use.

NOTE: An actual inventory does not have to be performed if the break away security seal is intact. An unbroken seal will serve to verify that the inventory is complete.

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- a. Inventory all emergency off-site monitoring kits using Attachment H "Radiation Emergency Off-Site Monitoring Equipment Kit". Complete a separate inventory sheet, Form EP-IP-101-8, for each kit and identify the kit number in the appropriate space provided on this form.
    - (1) Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.
    - (2) Verify that the expiration date on the potassium iodide tablets is not past due and also that it will not expire prior to the next required inventory. If the expiration date is past due or will become past due prior to the next required

inventory, replace the potassium iodide tablets with those which have not and will not expire prior to the next required inventory.

- (3) Verify that instruments requiring calibration have been calibrated. If calibration has expired or will expire prior to the next required inventory, replace the instrument with a calibrated instrument which will not expire prior to the next required inventory. If the instrument with the expired calibration date is to be calibrated by the I&C group, deliver it to the I&C group to be recalibrated. Instruments to be recalibrated by the Health Physics group should be delivered to the Health Physics office.
- b. Replace all non-rechargeable batteries in the portable radiation survey instruments with new batteries. Return replaced batteries to the Health Physics office.
- c. After inventory, seal kits with a break away security seal so that they cannot be opened without breaking the seal.
- d. Complete and forward Attachment H for each kit to the SNEP.
- e. After sealing kits, fill out the PMIS PM Worklist for Attachment H and return it to the PMIS center.

6.8.4 Inventory and inspect all ambulance emergency kit equipment stored at the North Gatehouse every calendar quarter and after each use.

NOTE: An actual inventory does not have to be performed if the break away security seal is still intact. An unbroken seal will serve to verify that the inventory is complete. Survey instruments must be calibrated every quarter however.

- a. Inventory all ambulance radiation emergency equipment using Attachment I, "Ambulance Emergency Equipment Kit"
  - (1) Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

- (2) Verify that instruments requiring calibration have been calibrated. If calibration has expired or will expire prior to the next required inventory, replace the instrument with a calibrated instrument which will not expire prior to the next required inventory. If the instrument with the expired calibration date is to be calibrated by the I&C group, deliver it to the I&C group to be recalibrated. Instruments to be recalibrated by the Health Physics group should be delivered to the Health Physics office.
- b. Replace all TLD badges with new TLD badges and deliver the replaced TLD badges to the dosimetry group
- c. Replace all non-rechargeable batteries in the portable survey instruments with new batteries. Return replaced batteries to the Health Physics office.
- d. After inventory, seal the ambulance kits with a break away security seal so that they cannot be opened without breaking the seal.
- e. Complete and forward Attachment I to the SNEP.
- f. After sealing the kits, fill out the PMIS PM Worklist for Attachment I and return it to the PMIS center.

6.8.5 Inventory and inspect all Control Room equipment located in the Operations Support Center every calendar quarter and after each use.

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- a. Inventory all Control Room equipment located in the Operations Support Center using Attachment J, "Control Room Equipment".
    - (1) Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note, why it was replaced.
    - (2) Verify that instruments requiring calibration have been calibrated. If calibration has expired or will expire prior to the next required inventory, replace the instrument with a calibrated instrument which will not expire prior to the next required inventory. If the instrument with the expired calibration date is to be calibrated by the I&C group, deliver it to the I&C group to be

recalibrated. Instruments to be recalibrated by the Health Physics group should be delivered to the Health Physics office.

- (3) Verify that the expiration date on the potassium iodide tablets is not past due and also that it will not expire prior to the next required inventory. If the expiration date is past due or will become past due prior to the next required inventory, replace the potassium iodide tablets with those which have not and will not expire prior to the next required inventory.

- b. Replace all non-rechargeable batteries in the portable survey instruments with new batteries. Return replaced batteries to the Health Physics office.
- c. Complete and forward Attachment J to the SNEP.
- d. After inventory fill out the PMIS PM Worklist for Attachment J and return it to the PMIS center.

6.8.6 Inventory and inspect all station decontamination area equipment and supplies every calendar quarter and after each use. Inventory each of the following decontamination stations; (1) Rx Bld Elevation 818', (2) Rx Bld Elevation 719' NW Corner, (3) Rx Bld Elevation 719' SE Corner, (4) Control Structure Elevation 656', (5) Radwaste Bld Elevation 691', (6) Radwaste Bld Elevation 676', (7) Radwaste Bld Elevation 646' East, (8) Radwaste Bld Elevation 646' West

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- a. Inventory all station decontamination area emergency equipment using Attachment K, "Station Decontamination Area Equipment". Complete a separate inventory sheet, Form EP-IP-101-11, for each station and identify the location and elevation for each station in the appropriate space provided on this form.
    - (1) Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note, why it was replaced.
    - (2) Verify that the expiration dates on the decontamination chemicals are not past due and also that they will not expire prior to the next required inventory. If the expiration date is past due or will become past due prior to the next required inventory, replace the chemicals with

fresh chemicals which will not expire prior to the next required inventory.

- (3) Verify that instruments requiring calibration have been calibrated. If calibration has expired or will expire prior to the next required inventory, replace the instrument with a calibrated instrument which will not expire prior to the next required inventory. If the instrument with the expired calibration date is to be calibrated by the I&C group, deliver it to the I&C group to be recalibrated. Instruments to be recalibrated by the Health Physics group should be delivered to the Health Physics office.

- b. Complete and forward Attachment K for each decontamination station to the SNEP.
- c.. After inventory fill out the PMIS PM Worklist for Attachment K and return it to the PMIS center.

6.8.7 Inventory and inspect all Emergency Operations Facility decontamination area and Health Physics equipment and supplies every calendar quarter and after each use.

- a. Inventory all EOF radiation emergency decontamination area and Health Physics supplies using Attachment L, "Emergency Operations Facility Decontamination Area and Health Physics Supplies"
  - (1) Visually inspect all equipment and replace any ~~equipment which shows deterioration or abuse.~~ Note any item replaced in required column and note why it was replaced.
  - (2) Verify that the expiration date on the potassium iodide tablets is not past due and also that it will not expire prior to the next required inventory. If the expiration date is past due or will become past due prior to the next required inventory, replace the potassium iodide tablets with those which have not and will not expire prior to the next required inventory.
  - (3) Verify that the expiration dates on the decontamination chemicals are not past due and also that they will not expire prior to the next required inventory. If the expiration date is past due or will become past due prior to the next

required inventory, replace the chemicals with fresh chemicals which will not expire prior to the next required inventory.

- (4) Verify that instruments requiring calibration have been calibrated. If calibration has expired or will expire prior to the next required inventory, replace the instrument with a calibrated instrument which will not expire prior to the next required inventory. If the instrument with the expired calibration date is to be calibrated by the I&C group, deliver it to the I&C group to be recalibrated. Instruments to be recalibrated by the Health Physics group should be delivered to the Health Physics office.

- b. Complete and forward Attachment L to the SNEP
- c. After inventory fill out the PMIS PM Worklist for Attachment L and return it to the PMIS center.

6.8.8 Inventory and inspect all Berwick Hospital radiation emergency equipment and supplies semi-annually and after each use. RMC and the Health Physics section will alternate quarterly inventory and inspection responsibilities (Health Physics instruments must be inventoried every quarter by Health Physics).

- a. Inventory all Berwick Hospital radiation emergency equipment and supplies using Attachment E, "Berwick Hospital Radiation Emergency Equipment and Supplies"

- 
- (1) Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.
  - (2) Verify that instruments requiring calibration have been calibrated. If calibration has expired or will expire prior to the next required inventory, replace the instrument with a calibrated instrument which will not expire prior to the next required inventory. If the instrument with the expired calibration date is to be calibrated by the I&C group, deliver it to the I&C group to be recalibrated. Instruments to be recalibrated by the Health Physics group should be delivered to the Health Physics office.

- b. Replace all TLD badges with new TLD badges and deliver the replaced TLD badges to the dosimetry group.
- c. Replace all non-rechargeable batteries in the portable survey instruments with new batteries. Return replaced batteries to the Health Physics office.
- d. Complete and forward Attachment E to the SNEP
- e. After inventory fill out the PMIS PM Worklist for Attachment E and return it to the PMIS center

6.8.9 Inventory and inspect all Geisinger Medical Center radiation emergency equipment and supplies every calendar quarter and after each use. RMC and the Health Physics group will alternate quarterly inventory and inspection responsibilities.

- a. Inventory all Geisinger Medical Center radiation emergency equipment and supplies using Attachment F, "Geisinger Medical Center Radiation Emergency Equipment and Supplies"
  - (1) Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.
  - (2) Verify that instruments requiring calibration have been calibrated. If calibration has expired or will expire prior to the next required inventory, replace the instrument with a calibrated instrument which will not expire prior to the next required inventory. If the instrument with the expired calibration date is to be calibrated by the I&C group, deliver it to the I&C group to be recalibrated. Instruments to be recalibrated by the Health Physics group should be delivered to the Health Physics office.
- b. Replace all TLD badges with new TLD badges and deliver the replaced TLD badges to the dosimetry group.
- c. Replace all non-rechargeable batteries in the portable survey instruments with new batteries. Return replaced batteries to the Health Physics office.
- d. Complete and forward Attachment F to the SNEP

- e. After inventory fill out the PMIS PM Worklist for Attachment F and return it to the PMIS center.

#### 6.9 Operations

Verify operation of station emergency communication equipment in accordance with EP-IP-102 Surveillance Testing of Emergency Communications Equipment.

- 6.9.1 Document all operational tests performed with results and forward these documents to the SNEP.

- 6.9.2 Fill out the PMIS PM Worklist for station emergency communication equipment and return it to the PMIS center.

#### 6.10 Shift Technical Advisors

Inventory and inspect all Technical Support Center equipment every calendar quarter and after each use.

- 6.10.1 Inventory all TSC equipment using Attachment M, "Technical Support Center Equipment"

Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

- 6.10.2 Complete and forward Attachment M to the SNEP

- 6.10.3 After inventory fill out the PMIS PM Worklist for Attachment M and return it to the PMIS center.

---

#### 6.11 Safety Consultant

Inventory and inspect all emergency on-site search and rescue first-aid equipment located as indicated on Attachment N every calendar quarter and after each use:

- 6.11.1 Inventory all radiation emergency on-site first-aid equipment using Attachment N "Emergency On-Site Search and Rescue First-Aid Equipment"

Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

- 6.11.2 Complete and forward Attachment N to the SNEP.

- 6.11.3 After inventory fill out the PMIS PM Worklist for Attachment N and return it to the PMIS center.

#### 6.12 Mechanical Maintenance

Inventory and inspect all damage control equipment stored outside the Health Physics Emergency Equipment Room in the control structure, Elevation 656', every calendar quarter and after each use.

NOTE: An actual inventory does not have to be performed if the break away security seal is intact. An unbroken seal will serve to verify that the inventory is complete.

- 6.12.1 Inventory all damage control equipment using Attachment O, "Damage Control Equipment Storage Box"

Visually inspect all equipment and replace any equipment which shows deterioration or abuse. Note any item replaced in required column and note why it was replaced.

- 6.12.2 Complete and forward Attachment O to the SNEP

- 6.12.3 After inventory, seal equipment box with a break away security seal so that it cannot be opened without breaking the seal

- 6.12.4 After sealing equipment box, fill out the PMIS PM Worklist for Attachment O and return it to the PMIS center.

#### 7.0 RECORDS

- 7.1 The PMIS as outlined in AD-00-540; "Preventative Maintenance System" will provide the method of controlling overall documentation of inventories, inspections and operational tests as required by this procedure.

- 7.1.1 The responsible supervisor of each designated group will ensure the weekly completion of any PMIS PM Worklists he is responsible for and submit them to the PMIS center (except in cases where this responsibility has been given to the SNEP).

- 7.1.2 Information including inspection date, completion code, and employee performing the task from the PM Worklists will be entered into the computer system by PMIS personnel. This will update the PMIS master file automatically and the computer will then schedule the next date for the required activity.

- 7.1.3 The PMIS center will submit all PM Worklists to the Document Control Center (DCC) to be entered into the microfilm system for permanent record.
  - 7.2 Additionally, the SNEP will receive records of all inventories, inspections, and operational tests of emergency equipment and supplies from the various responsible groups. The SNEP will review these records to ensure that identified deficiencies are corrected in a timely manner.
-

Inventory Date \_\_\_\_\_  
Initials \_\_\_\_\_

Attachment A  
EP-IP-101  
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Emergency Operations Facility Equipment (excluding H.P. equipment)

Equipment	Quantity	Replaced/ Comments (X if Present)
-----------	----------	---

Documents

Plant Technical Specifications	1	_____
Operating Procedures Manual	1 set	_____
Emergency Operating Procedures Manual	1	_____
Final Safety Analysis Report	1 set	_____
Emergency Plan	1	_____
Emergency Plan Implementing Procedures	1	_____
Current Emergency Plans for:		
Commonwealth of Pennsylvania	1	_____
Luzerne County Civil Defense	1	_____
Columbia County Emergency Management Agency	1	_____
Radiological Records	1 set	_____
Off-site Population Distribution and Evacuation Plans	1	_____
Rad Health Handbook	1	_____
Dose Calculation Manual	1	_____
Emergency Phone Directory	10	_____

Emergency Planning Map with Off-site Monitoring Locations	1	_____
Map Overlays for Dose Projection	1 set	_____
Rad Dose Computer	1	_____
Calculators	3	_____
Extension Cords	3	_____

Document Control Area

35 mm Microfilm Reader/Printer	1	_____
16 mm Page Search Microfilm Reader/Printer	1	_____
Microfiche Dry Reader/Printer	1	_____
Microfiche Reader	2	_____
Microfilm Storage Cabinet	1	_____
Microfiche Storage Cabinet	1	_____
Aperature Card Storage Cabinets	2	_____

Continued...

Inventory Date \_\_\_\_\_  
Initials \_\_\_\_\_

Attachment A  
EP-IP-101  
Revision 0  
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Emergency Operations Facility Equipment (excluding H.P. equipment)

Equipment	Quantity	Replaced/ Comments (X if Present)
<u>Clerical Supplies</u>		
FACSIMILE	2	_____
Copy Machines	2	_____
Typewriters	2	_____
Whiteboard erasers	10	_____
Dry Erase Markers		_____
Black	20	_____
Red	20	_____
Green	20	_____
Clipboard	20	_____
Pads of Paper (8 1/2" x 11")	40	_____
Pencils	60	_____
Pens	60	_____
Magic Marker		_____
Black	30	_____
Red	30	_____
Highlighters		_____
Yellow	15	_____
Pink	15	_____
Grease Pencils		_____
Black	10	_____
Red	10	_____
Green	10	_____
Eraser Cloths for Grease Pencils	10	_____
Scissors	5	_____
Pencil Sharpener	5	_____
3 Hole Punch	2	_____
Scotch Tape Dispenser with Tape	5	_____
Ruler, 12"	10	_____
Paper Clips	5 Boxes	_____
Butterfly Clips	5 Boxes	_____
Thumb Tacks	5 Boxes	_____
Rubber Bands	5 Boxes	_____
Stapler	5	_____
Staples	5 Boxes	_____
Fluorescent Worklight	5	_____
Flashlight	5	_____
First Aid Kit	1	_____
Stretcher	1	_____
Continued...		_____

Inventory Date \_\_\_\_\_  
Initials \_\_\_\_\_

Attachment A  
EP-IP-101  
Revision 0  
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Emergency Operations Facility Equipment (excluding H.P. equipment)

Equipment	Quantity	Replaced/ Comments (X if Present)
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Action Step Folders:

Recovery Manager	1	_____
Site Support Manager	1	_____
Technical Support Manager	1	_____
Radiological Support Manager	1	_____
Communications Coordinator-EOF	1	_____

Log Books:

Recovery Manager	1	_____
Technical Support Manager	1	_____
Radiological Support Manager	1	_____
Communications Coordinator-EOF	1	_____

Emergency Forms:

EP-IP-013 DATA Sheets	100	_____
Incident Form EP-IP-002-1	100	_____
Radiological Assessment Form EP-IP-002-2	100	_____
Press Release Forms	100	_____

Reviewed by \_\_\_\_\_  
SNEP

Kit No. \_\_\_\_\_  
Inventory Date \_\_\_\_\_  
Initials \_\_\_\_\_

Radiation Emergency Environmental Sample Kit

Equipment	Quantity	Replaced/ Comments (X if present)
Sample Containers (2 gal)	2	_____
Rubber gloves	6 pair	_____
Sample labels	As Sufficient	_____
Flashlight	1	_____
Spare D cell batteries	2	_____
List of Sampling locations	1	_____
Grid Coordinate Map	1	_____

Reviewed by \_\_\_\_\_ Reviewed by \_\_\_\_\_  
Environmental Group Supv.-Nuc. SNEP

Inventory Date \_\_\_\_\_ Initials \_\_\_\_\_

General Office Nuclear Emergency Support  
Center Emergency Equipment and SuppliesAttachment C  
EP-IP-101  
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Equipment	Quantity	Replaced/Comments (X if Present)
<u>Documents</u>		
Emergency Plan	1	
Emergency Plan Implementing Procedures	1	
General Office Support Managers Book	1	
INPO Emergency Resources Manual	1	
Two-Way Radio Operators Manual	2	
Shickshinny Telephone Directories	2	
Allentown Telephone Directories	4	
INPO Directories	3	
Inter-Company Directories (PP&L)	4	
Emergency Telephone Listing Notebook	1	
Emergency Resources Manual	1	
Basic SES Systems Book	1	
<u>Tape Recording Equipment</u>		
Norelco Tape Recorder with microphone	1	
Norelco Pocket Tape Recorder with microphone	2	
Tapes for Pocket Tape Recorder	12	
Extra Batteries for Pocket Tape Recorder	4	
Craig Cassette Recorder and tele-Recorder 150	1	
<u>Portfolio Folders</u>		
Technical Update	1	
Conference Call Tape	1	
CMC Release	1	
Press Release	1	
Unmarked	2	
Magnetic Signs	8	
Emergency Drill Release Forms	50	
Pads of Rediforms SH555 for Log	3	
Pads of Paper	4	
In and Out Boxes	4	
Stapler	1	
3 Hole Punch	1	
Inventory List of Supplies	20	
Ruler	1	
Pens and Pencils	10 each	
Scissors	1	
Scotch tape dispenser with tape	1	

Reviewed by \_\_\_\_\_  
Mgr.-Nuc. AdminReviewed by \_\_\_\_\_  
SNEP

Inventory Date \_\_\_\_\_  
Initials \_\_\_\_\_

Attachment D  
EP-IP-101  
Revision 0  
Page 32 of 56

General Office Engineering Support Center Emergency Equipment and Supplies

Equipment	Quantity	Replaced/ Comments (X if Present)
<u>Documents</u>		
Plant Technical Specifications	1	_____
Final Safety Analysis Report	1 set	_____
System Description Manuals	1 set	_____
Steam Tables	1 set	_____
<u>Misc. Equipment</u>		
Bookcase	1	_____
Tackboard	2	_____
Thumbtacks	2 Boxes	_____
Whiteboard	4	_____
Whiteboard erasers	5	_____
Dry Erase Markers		_____
Black	10	_____
Red	10	_____
Tables		_____
2' x 8'	2	_____
2' x 4'	2	_____
Chairs	17	_____

Reviewed by \_\_\_\_\_  
Mgr.-Nuc. Admin.

Reviewed by \_\_\_\_\_  
SNEP

Inventory Date \_\_\_\_\_  
 Initials \_\_\_\_\_

Berwick Hospital Radiation Emergency Equipment and Supplies

Equipment	Quantity	Responsible Group	Replaced/ Comments (X if present)
Eberline RM-14 W/HP 210 probe	1	HP	_____
Eberline E-520 GM instrument	1	HP	_____
Eberline RO-2A ion chamber	1	HP	_____
Self Reading Dosimeters, 0-200 mR	10	HP	_____
Thermoluminescent Dosimeters, badge type	10	HP	_____
Thermoluminescent Dosimeters, ring type	10	HP	_____
Dosimeter Charger	1	HP/RMC*	_____
Decontamination Table Top	1	HP/RMC	_____
Lead Container, high activity samples	1	HP/RMC	_____
Decontamination Kit	1	HP/RMC	_____
Sample-Taking Kit	1	HP/RMC	_____
Hose; low pressure w/shower head and valve	1	HP/RMC	_____
Protective Clothing Packs	12	HP/RMC	_____
Masking Tape, 2" roll	10	HP/RMC	_____
Set of radiation signs and ribbon	1	HP/RMC	_____
Continued...			

\*Quarterly inventory to be performed. Responsibility for inventory to rotate every quarter between Radiation Management Corporation and the Health Physics group

Equipment	Quantity	Responsible Group	
Batteries, for instruments	as sufficient	HP/RMC*	_____
Misc. Plastic bags	as sufficient	HP/RMC	_____
Step-off pads	as sufficient	HP/RMC	_____
Stanchions	as sufficient	HP/RMC	_____
Herculite-white, green, and yellow	as sufficient	HP/RMC	_____

Reviewed by \_\_\_\_\_  
 H.P. Supv. or RMC

Reviewed by \_\_\_\_\_  
 SNEP

\*Quarterly inventory to be performed. Responsibility for inventory to rotate every quarter between Radiation Management Corporation and the Health Physics group

Inventory Date \_\_\_\_\_  
 Initials \_\_\_\_\_

Geisinger Medical Center Radiation Emergency Equipment and Supplies

Equipment	Quantity	Responsible Group	Replaced/ Comments (X if present)
Eberline RM-14 W/HP 210 probe	1	HP	_____
Eberline E-520 GM instrument	1	HP	_____
Eberline RO-2A ion chamber	1	HP	_____
Self Reading Dosimeters, 0-200 mR	10	HP	_____
Thermoluminescent Dosimeters, badge type	10	HP	_____
Thermoluminescent Dosimeters, ring type	10	HP	_____
Dosimeter Charger	1	HP/RMC*	_____
Decontamination Table Top	1	HP/RMC	_____
Lead Container, high activity samples	1	HP/RMC	_____
Decontamination Kit	1	HP/RMC	_____
Sample-Taking Kit	1	HP/RMC	_____
Hose; low pressure w/shower head and valve	1	HP/RMC	_____
Protective Clothing Packs	12	HP/RMC	_____
Masking Tape, 2" roll	10	HP/RMC	_____

Continued...

\*Quarterly inventory to be performed. Responsibility for inventory to rotate every quarter between Radiation Management Corporation and the Health Physics group

Equipment	Quantity	Responsible Group	Replaced/ Comments (X if present)
Set of radiation signs and ribbon	1	HP/RMC*	_____
Batteries, for instruments	as sufficient	HP/RMC	_____
Misc. Plastic bags	as sufficient	HP/RMC	_____
Step-off pads	as sufficient	HP/RMC	_____
Stanchions	as sufficient	HP/RMC	_____
Herculite-white, green, and yellow	as sufficient	HP/RMC	_____

Reviewed by \_\_\_\_\_  
 H.P. Supv. or RMC

Reviewed by \_\_\_\_\_  
 SNEP

\*Quarterly inventory to be performed. Responsibility for inventory to rotate every quarter between Radiation Management Corporation and the Health Physics group

Inventory Date \_\_\_\_\_  
 Initials \_\_\_\_\_

Health Physics Van Radiation Emergency Monitoring Equipment

Equipment	Quantity	Replaced/ Comments (X if present)
*Eberline E-520 with SK-1 speaker	1	_____
*Portable Frisker with probe (Eberline RM-14, E-140N, or Victoreen 425)	1	_____
*Ion Chamber, High range (Victoreen panoramic or Eberline RO-2A)	1	_____
*Ludlum 2218 dual channel analyzer, detector, & power cord	1 set	_____
Radeco Low Volume Air Sampler with head (AC powered)	1	_____
Radeco Low Volume Air Sampler with DC power plug	1	_____
Spare Frisker Cable	1	_____
DC to AC Inverter*	1	_____
VHF mobile base station radio	1	_____
**VHF portable radio, charger and spare battery	1	_____
Full face respirator mask	2	_____
Iodine canister	2	_____
Vial of Potassium Iodide Tablets	1	_____

Continued...

\*Located in emergency radiation detection equipment box stored in Health Physics Emergency Equipment Room

\*\*Located in Health Physics Office

Equipment	Quantity	Replaced/ Comments (X if present)
Self Reading Dosimeter, 0-5R	2	_____
Dosimeter Charger	1	_____
Set of Anti-Contamination Clothing	2	_____
Protective gloves, cloth and plastic	20	_____
Copy of Emergency Plan	1	_____
Copy of EP-IP-012 On-Site Emergency Monitoring	2	_____
Copy of EP-IP-013 Off-Site Emergency Monitoring	2	_____
Extra Data Sheets	50	_____
Pen	2	_____
Pencil	2	_____
Magic Marker	2	_____
Clip board	1	_____
Calculator	1	_____
Emergency Planning Map	1	_____
Check source	1	_____
Silver Zeolite cartridges	10	_____
Particulate Filters, box	1	_____
Tweezers	1	_____
Stopwatch	1	_____
Sample bottles	10	_____
Duct Tape, roll	1	_____

Continued...

Equipment	Quantity	Replaced/ Comments (X if present)
Radioactive Material Stickers, roll	1	_____
Labels for air samples	10	_____
Masslin Cloths	10	_____
Whatman No. 2 filter papers, box	1	_____
Plastic bags, 3 sizes (4" x 6", 8" x 8", 12" x 15")	20 each	_____
Extension cord	1	_____
Work light, fluorescent	1	_____
Flashlight	1	_____
Utility knife	1	_____
First Aid Kit	1	_____
Spare batteries		
9 volt battery	6	_____
AA cell battery	2	_____
D cell battery	2	_____
Spare fuses for Air sampler	2	_____
Step off pads	2	_____
Rad ribbon and signs	as sufficient	_____
Barrier rope with flags	as sufficient	_____

Reviewed by H.P. Supv. Reviewed by SNEP

Kit No. \_\_\_\_\_  
 Inventory Date \_\_\_\_\_  
 Initials \_\_\_\_\_

Radiation Emergency Off-Site Monitoring Equipment Kit

Equipment	Quantity	Replaced/ Comments (X if present)
Clipboard	1	_____
Pad of Paper	1	_____
Magic Marker	1	_____
Pens	2	_____
Pencils	2	_____
Emergency Planning Map	1	_____
Grid Coordinate Map	1	_____
Copy of EP-IP-013, Off-site Emergency Monitoring	1	_____
Off-site Monitoring Data Sheets	50	_____
Stopwatch	1	_____
Tweezers	1	_____
Eberline RO-2	1	_____
Low Volume Air Sampler	1	_____
Air Sampler Head	1	_____
Ludlum 2218 dual channel analyzer, detector, and power cord	1 set	_____
Dosimeter, 0-500 mR	2	_____
Dosimeter, 0-5 R	2	_____

Continued...

Equipment	Quantity	Replaced/ Comments (X if present)
Dosimeter Charger	1	_____
Vial of Potassium Iodide	2	_____
Check source	1	_____
Radioactive Material Stickers, roll	1	_____
Particulate Filters, box	1	_____
Silver Zeolite Cartridges	10	_____
Disposable Plastic Gloves	20	_____
Plastic sample bags-approximate sizes:		
4" x 6" plastic bags	20	_____
8" x 8" plastic bags	40	_____
12" x 15" plastic bags	10	_____
Calculator	1	_____
Extension cord	1	_____
Worklight, Fluorescent	1	_____
Flashlight	1	_____
Spare Battery and Fuse Kit		
9 volt battery	4	_____
AA cell battery	2	_____
D cell battery	2	_____
Fuses for Air Sampler	2	_____
Masking tape, roll	2	_____
Labels, air sample bags	25	_____

Reviewed by \_\_\_\_\_  
 H.P. Supv.

Reviewed by \_\_\_\_\_  
 SNEP

Inventory Date \_\_\_\_\_  
Initials \_\_\_\_\_

Ambulance Emergency Equipment Kit

Equipment	Quantity	Replaced/ Comments (X if present)
Plastic sheeting, 8' x 20'	1	_____
Duct tape, rolls	2	_____
Misc. Plastic bags	10	_____
Set of anti-contamination clothing	6	_____
Extra plastic gloves	20	_____
Extra plastic shoe covers	20	_____
Self Reading Dosimeter, 0-200 mR	6	_____
Dosimeter charger	1	_____
Thermoluminescent dosimeter badges	6	_____
Portable Frisker, Eberline E140-N	1	_____

Reviewed by \_\_\_\_\_  
H.P. Supv.

Reviewed by \_\_\_\_\_  
SNEP

Inventory Date \_\_\_\_\_  
 Initials \_\_\_\_\_

Control Room Equipment

Equipment	Quantity	Replaced/ Comments (X if present)
Portable frisker with probe	2	_____
Low Volume Air Sampler with Head	1	_____
High Volume Air Sampler with Head	1	_____
Ion Chamber survey instrument (RO-2A)	1	_____
GM Survey instrument (teletector)	1	_____
Spare frisker cable	2	_____
Spare frisker probe	2	_____
Box of particulate filter paper (low vol)	1	_____
Box of particulate filter paper (high vol)	1	_____
Silver Zeolite Cartridges	20	_____
Spare Batteries and fuses		
9 volt	6	_____
AA cell	2	_____
Fuses for Air Sampler	2	_____
Portable Worklight	2	_____
Extension Cord	2	_____
Dosimeter Charger	1	_____
Self Reading Dosimeters		
0-5 R	12	_____
0-25 R	12	_____
Vials of Potassium Iodide Tablets	12	_____

Continued...

Equipment	Quantity	Replaced/ Comments (X if present)
Anti-Contamination Clothing		
Coveralls	1 case	_____
Plastic gloves	1 box	_____
Shoe Covers	1 case	_____
Cotton glove liners	6 dozen	_____
Surgeon Caps	12	_____
Full face Respirator	12	_____
Iodine Filter Canisters	12	_____
SCBA	6	_____
Spare SCBA tanks	6	_____
Emergency Plan	1	_____
Emergency Plan Implementing Procedures	1 set	_____
Emergency Planning Map with off-site sampling locations	1	_____
Map Overlays for Dose Projection	1 set	_____
On-site Monitoring Locations Map	1	_____
Rad Dose Computer	1	_____
15 minute escape device	12	_____
First Aid Kit	1	_____
Keys to Health Physics Van (key locker)	1 set	_____
Emergency Plan keys (key locker)	2 sets	_____

Reviewed by \_\_\_\_\_  
 H.P. Supv.

Reviewed by \_\_\_\_\_  
 SNEP

Location (Building and elevation) \_\_\_\_\_  
Inventory Date \_\_\_\_\_  
Initials \_\_\_\_\_

Station Decontamination Area Equipment

Equipment	Quantity	Replaced/ Comments (X if present)
Copy of HP-TP-624, "Personnel Decontamination"	1	_____
Personnel Contamination Reports Forms	20	_____
Disposable Gloves	1 box	_____
Shoe Covers paper	24	_____
Cotton gloves	2doz.	_____
Coveralls (Disposable)	12	_____
Decontamination Soap	1 Bottle	_____
Lotion Skin Cleaner	1 Bottle	_____
Cotton tipped swabs	100	_____
Hand Brushes	2	_____
Decontamination chemicals		
Titanium Dioxide	1 container	_____
4% Potassium permanganate	1 Bottle	_____
4% Sodium bisulfate	1 Bottle	_____
Hand Cream	1 Bottle	_____
Disposable Razors	4	_____
Scissors	1	_____
Tweezers	1	_____

Continued...

Attachment K  
EP-IP-101  
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Replaced/  
Comments  
(X if present)

Equipment	Quantity	
Paper Towels	1 Box	_____
Masking Tape	1 Roll	_____
Assorted Sponges	4	_____
Frisker	1	_____
Spare Frisker probe	1	_____
Spare Frisker cable	2	_____

Reviewed by \_\_\_\_\_  
H.P. Supv.

Reviewed by \_\_\_\_\_  
SNEP

Inventory Date \_\_\_\_\_  
 Initials \_\_\_\_\_

Emergency Operations Facility Decontamination Area  
 and Health Physics Supplies

Decontamination Area Equipment	Quantity	Replaced/ Comments (X if present)
Copy of HP-TP-624, "Personnel Decontamination"	1	_____
Personnel Contamination Report Forms	20	_____
Disposable Gloves	1 Box	_____
Shoe Covers -- paper	24	_____
Cotton gloves	2doz.	_____
Coveralls (Disposable)	12	_____
Decontamination Soap	1 Bottle	_____
Lotion Skin Cleaner	1 Bottle	_____
Cotton tipped swabs	100	_____
Hand Brushes	6	_____
Decontamination chemicals		
Titanium Dioxide	1 container	_____
4% Potassium permanganate	1 Bottle	_____
4% Sodium bisulfate	1 Bottle	_____
Hand Cream	1 Bottle	_____
Disposable Razors	4	_____
Scissors	1	_____
Tweezers	1	_____
Continued...		

Decontamination Area Equipment	Quantity	Replaced/ Comments (X if present)
Paper Towels	1 Box	_____
Masslin Cloths	2 Boxes	_____
Masking Tape, 2" roll	1 Roll	_____
Assorted sponges	4	_____
<u>Other Health Physics Supplies</u>		
Ludlum Dual Channel Analyzer with detector	2	_____
Portable frisker with probe	5	_____
Spare frisker probe	10	_____
Spare frisker cable	24	_____
Ion Chamber Survey Instrument	2	_____
GM Survey Instrument	5	_____
Low Volume Air Sampler	5	_____
Portable filter papers	12 Boxes	_____
Silver Zeolite Cartridges	100	_____
Potassium Iodide tablets	100 Vials	_____
Self Reading Dosimeters		
0-200 mR	100	_____
0-5 R	50	_____
0-100 R	30	_____
0-200 R	10	_____

Continued...

Decontamination Area Equipment	Quantity	Replaced/ Comments (X if present)
Dosimeter Charger	5	_____
Anti-Contamination Clothing		
Coveralls (Disposable)	12 cases	_____
Plastic gloves	12 Boxes	_____
Shoe covers	12 cases	_____
Cotton Glove Liners	12 cases	_____
Disposable caps	2 cases	_____
Plastic suits	2 cases	_____
Full face respirators	50	_____
Respirator filters	100	_____
Particulate canister	50	_____
Iodine canister		_____
SCBA	2	_____
Spare SCBA Tank	2	_____
Smear Papers	3 Boxes	_____
Stopwatch	1	_____
Survey forms	100	_____
Pocket Knife	1	_____
<del>Spray Paint for Area Marking (Magenta)</del>	<del>5 cans</del>	<del>_____</del>
Radiological Signs	20	_____
Assorted Inserts for signs	20 each	_____
"Radioactive Material" Stickers	3 rolls	_____
"Radioactive Material" Tape	5 rolls	_____
Barrier Rope with Stanchions	1 roll	_____
Masking Tape (2" roll)	25 rolls	_____
Continued...		

Decontamination Area Equipment	Quantity	Replaced/ Comments (X if present)
Duct Tape (2" roll)	5 rolls	_____
Plastic Sheeting	20' x 30'	_____
Poly Bags	25	_____
Spare Batteries		
9 volt	20	_____
D cell	20	_____
AA cell	10	_____
Spare fuses for air sampler	20	_____

Reviewed by \_\_\_\_\_  
 H.P. Supv.

Reviewed by \_\_\_\_\_  
 SNEP

Technical Support Center Equipment

Equipment	Quantity	Replaced/ Comments (X if present)
<u>Documents</u>		
Plant Technical Specifications	1	_____
Operating Procedures Manual	1 set	_____
Emergency Operating Procedures Manual	1	_____
Final Safety Analysis Report	1 set	_____
Emergency Plan	1	_____
Emergency Plan Implementing Procedures	1	_____
Dose Calculation Manual	1	_____
Plant as built drawings	1 set	_____
Emergency Phone Directory	10	_____
<u>Status Boards</u>		
TSC Open Items	1	_____
Big Picture (Rx parameters, Rad-Data, ECCS in/out of service)	1	_____
Elevation Floor Plans	1 set	_____
Action Steps	1 set	_____
Team Tracking	1 set	_____
Release Rate Trending Graph	1	_____
TSC Personnel on Duty	1	_____
Emergency Planning Map with Offsite Monitoring Locations	1	_____
On-site Monitoring Locations Map	1	_____
<u>Document Control Area:</u>		
35 mm Microfilm Reader/Printer	1	_____
16 mm Page Search Microfilm Reader/Printer	1	_____
Microfiche Dry Reader/Printer	1	_____
Microfilm Storage Cabinet	1	_____
Microfiche Storage Cabinet	1	_____
Aperture Card Storage Cabinet	2	_____
Desk Top Copy Machine	1	_____
FACSIMILE	1	_____

Continued...

<u>Equipment</u>	<u>Quantity</u>	<u>Replaced/ Comments (X if present)</u>
<u>Furniture:</u>		
Misc. Storage Cabinets	3	_____
Desks	7	_____
Desk Chairs	30	_____
Book Cases	5	_____
Tables	6	_____
<u>Action Step Folders:</u>		
Emergency Director	1	_____
Communications Coordinator-TSC	1	_____
Radiological Support Coordinator	1	_____
<u>Log Books:</u>		
Emergency Director	1	_____
Communications Coordinator-TSC	1	_____
Radiological Support Coordinator	1	_____
Radioman	1	_____

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Reviewed by \_\_\_\_\_ Reviewed by \_\_\_\_\_  
Tech. Supv. SNEP

Inventory Date \_\_\_\_\_  
 Initials \_\_\_\_\_

Emergency On-Site Search and Rescue First Aid Equipment

Equipment	Quantity	Replaced/ Comments (X if present)	Locations
First Aid Team Initial Response Kit with inventory sheet	4	_____ _____ _____	North Gate House Control Room  HP Emer. Equip. Rm. HP Emer. Equip. Rm.
Trauma Kit with inventory sheet	1	_____	HP Emer. Equip. Rm.
Adjustable litters	2	_____	HP Emer. Equip. Rm.
Folding litter	1	_____	HP Emer. Equip. Rm.
Basket Stretcher	1	_____	HP Emer. Equip. Rm.
Scoop Stretcher	1	_____	HP Emer. Equip. Rm.
Assorted Air Splints	12	_____	HP Emer. Equip. Rm.
Assorted Padded Board Splints	36	_____	HP Emer. Equip. Rm.
Portable Oxygen-Demand Valve (size D tank) with assorted airways, cannulas, and masks	1	_____	HP Emer. Equip. Rm.

Reviewed by \_\_\_\_\_  
 Safety Consultant

Reviewed by \_\_\_\_\_  
 SNEP

Inventory Date \_\_\_\_\_  
 - Initials \_\_\_\_\_

Damage Control Equipment Storage Box

Equipment	Quantity	Replaced/ Comments (X if present)
Screwdrivers, Large St.	2	_____
Screwdrivers, Medium St.	2	_____
Screwdrivers, Phillips, Large	2	_____
Screwdrivers, Phillips, Medium	2	_____
Hammer, Ball Peen, 16 Oz.	2	_____
Bars, Pry, Rolling Lead	2	_____
Bars, Pry, Large	2	_____
Wrench, Adjustable, 12"	2	_____
Wrench, Adjustable, 8"	2	_____
Pliers, Water Pump	2	_____
Pliers, Lineman	2	_____
Wrenches, Hex, 24"	2	_____
Wrench, Chain	1	_____
Wrench, Pipe, 18"	1	_____
Wrench, Pipe, 14"	1	_____
Nylon Rope, 100' coils, 3/4"	2	_____
Nylon Rope, 50' coil, 3/8"	1	_____
Continued...		

Equipment	Quantity	Replaced/ Comments (X if present)
Nylon Rope, 50' coils, 3/4"	2	_____
Nylon Rope, 25' coil, 3/8"	1	_____
Twine, Bale	1	_____
String, Ball	2	_____
Plastic Sheet, 20' x 20', Fire Retardant	3	_____
Flashlight, 5 cell	1	_____
Clamps, C, Small	2	_____
Clamps, C, Medium	2	_____
Clamps, C, Large	2	_____
Bucket, 14 Qt., Plastic	1	_____
Rubber, Roll, 1/16" Thick, 10' x 3'	1	_____
Hammer, Sledge, 10 Lb	1	_____
Hammer, Sledge, 8 Lb	1	_____
Plugs, Wooden Box, 1", 1-1/4", 1-1/2", 2", 2-1/2", 3"	4 ea.	_____
Enerpac, Rescue Unit.	1	_____
Black Wire, 1/4 Lb Rolls, 16 Gauge	2	_____
Wedges, Wooden	24	_____
Continued...		

Equipment	Quantity	Replaced/ Comments (X if present)
Box, Tool, 23"	1	_____
Wrench, Allen Pac 3/16", 7/32", 1/4", 5/16", 3/8"	2 Packs	_____
Wrench, Allen Pac .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32"	2 Packs	_____
Electricians Pouch with miscellaneous hand tools	1	_____
Cable Cutters	1	_____
Multimeter	1	_____

Reviewed by \_\_\_\_\_  
 Supv. of Maint.

Reviewed by \_\_\_\_\_  
 SNEP