

ID/2E,2F

EMERGENCY EQUIPMENT
AND SUPPLIES

<u>550-0</u> Emergency Equipment and Supplies	Rev. 13	10-06-83
<u>550-1</u> First Aid and Decontamination Facilities	Rev. 3	10-06-83
<u>550-2</u> Inventory of Emergency Equipment	Rev. 3	10-06-83
<u>550-T1</u> Environa Sampling Supplies	Rev. 6	10-06-83
<u>550-T2</u> Operational Support Center Emergency Supplies Cabinet	Rev. 5	10-06-83
<u>550-T3</u> Emergency Situation Film Dosimeters	Rev. 3	10-06-83
<u>550-T4</u> Emergency Operations Facility Supplies	Rev. 4	10-06-83
<u>550-T5</u> Technical Support Center Supplies	Rev. 2	10-06-83
<u>550-T6</u> Moline Public Hospital Radiation Emergency Area Supplies and Equipment	Rev. 4	10-06-83

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FIRST AID AND
DECONTAMINATION FACILITIES

QEP 550-1
Revision 3
September 1983

ID/2H

A. PURPOSE

The purpose of this procedure is to describe the first aid and decontamination facilities and their locations.

B. REFERENCES

1. None.

C. PREREQUISITES

1. None.

D. PRECAUTIONS

1. None.

E. LIMITATIONS AND ACTIONS

1. The Shift Engineer who is on duty is responsible for the care of injured personnel. His duties include first aid, arranging for medical assistance, and transportation to the hospital as required. First aid practices are those approved by the company.

F. PROCEDURE

1. Location of On-Site First Aid Equipment.
 - a. Stretchers and Blankets.

Maintenance Shop.
Lift Station - near east door.
Cribhouse - near south door.
Off Gas Filter Building.
Reactor Building One Elevator.
Reactor Building Two Elevator.
Turbine Building Elevator.
Radwaste Control Room.
Turbine Building One Trackway.
Turbine Building Two Trackway.
Shift Engineer's Office.

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b. First Aid Kits.

Maintenance Shop - wall.
Storerroom - locker.
Fuelhandlers office - wall
Rad Protection Foreman's Office - desk.
Instrument Maintenance Shop - wall.
Shift Engineer's Office - desk.
Reactor Building One Elevator - wall.
Reactor Building Two Elevator - wall.
Training Building - wall.
Main Office.
Personnel Decontamination area.
Turbine Building Elevator.

c. Respiratory Equipment.

(1) . Unit #1.

South Entrance LP Heaters and Condenser	595'0"
Entrance to Turbine Bldg by Diesel Generator	595'0"
Entrance to Turbine Bldg from Control Room	622'4"
Entrance to Drywell, Personnel Access	595'0"
Exit from Reactor Bldg Access Control	
Entrance South	595'0"
Exit from Reactor Bldg Access Control	
Entrance East	595'0"
Radwaste Control Room	

(2) Unit #2.

Entrance to Turbine Bldg by Diesel Generator	595'0"
Entrance to Drywell Personnel Access	595'0"
Exit from Reactor Bldg Access Control	
Entrance North	595'0"

2. Personnel Decontamination Area.

- a. The Personnel Decontamination Area is located on the ground floor of the Service Building. This area is easily accessible from the west hall leading from Unit 1 trackway and is adjacent to the employees locker room west entrance and is convenient to this location. The area is also convenient to the laboratory counting room and the radiation protection office. All contaminated personnel, including injured personnel, are to be decontaminated in this area. The following equipment is presently located in the decontamination facility:

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- (1) Decontamination shower (shower drain discharges to the retention tank).
- (2) Sink and counter (drains to retention tank).
- (3) Ready supply of personnel monitoring instruments in Radiation Protection Instrument Storeroom.
- (4) Station monitor for decontamination check.
- (5) Washing machine and dryer for low-level personal clothing contamination in the Laundry Room adjacent to the personnel decontamination room.
- (6) Telephone.
- (7) Soaps and detergents.
- (8) Waste containers for contaminated materials.
- (9) First aid kit.

G. CHECKLISTS

1. None.

H. TECHNICAL SPECIFICATION REFERENCES

1. None.

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INVENTORY OF EMERGENCY EQUIPMENT

QEP 550-2
Revision 3
September 1983

ID/2Y

A. PURPOSE

The purpose of this procedure is to assure the availability and up-to-date calibration of equipment and supplies dedicated for use during emergency situations.

B. REFERENCES

1. QEP 550-T1, Environs Sampling Supplies.
2. QEP 550-T2, Operational Support Center Emergency Supplies Cabinet.
3. QEP 550-T4, Emergency Operations Facility Supplies.
4. QEP 550-T5, Technical Support Center Supplies.
5. GSEP, Section 8.6.

C. PREREQUISITES

1. None.

D. PRECAUTIONS

1. None.

E. LIMITATIONS AND ACTIONS

1. The equipment and supplies listed represent a minimum quantity for effective emergency use. Additional supplies may be present without being included on the inventory lists.
2. The Radiation-Chemistry Foreman shall be responsible for assigning the task of inventory to the Radiation-Chemistry Technicians.

F. PROCEDURE

1. Inventory of environs sampling supplies:

A quarterly inventory for the items listed in QEP 550-T1 shall be performed by the Radiation-Chemistry Department. Along with the inventory of contents, the instruments shall be removed and be recalibrated or replaced with like calibrated equipment. Should any contents be missing a Radiation-Chemistry Foreman or Health Physicist should be notified. Upon completion of the inventory the boxes should be secured to prevent unnoticed depletion of their contents.

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2. Inventory of the OSC emergency equipment cabinet:

A quarterly inventory assuring the presence of all the items listed in QEP 550-T2 shall be performed by the Radiation-Chemistry Department. Keys for the cabinet are available from all Radiation Protection management and the key cabinet located in the Radiation-Chemistry Technicians' meeting room. Should any contents be missing a Radiation-Chemistry Foreman or Health Physicist should be notified.

3. Inventory of the control room:

A quarterly inventory of the station control room shall be performed by the Radiation-Chemistry Department to assure the presence and calibration of a "Cutie Pie" type dose rate instrument. This instrument should be located within a plastic box on the south wall of the control room. Should this instrument be missing or out of calibration, a Radiation-Chemistry Foreman or Health Physicist should be notified.

4. Inventory of the EOF emergency supplies:

A quarterly inventory verifying the presence of all items listed in QEP 550-T4, as being stored in the EOF, shall be performed by the Radiation-Chemistry Department. A key for the EOF may be obtained from the Shift Engineer. If any of the contents are missing, a Radiation-Chemistry Foreman or health Physicist should be notified.

5. Inventory of the TSC emergency supplies:

A quarterly inventory verifying the presence of all items listed in QEP 550-T5 shall be performed by the Radiation-Chemistry Department. A key for the TSC may be obtained from the Shift Engineer. A key to the emergency equipment cabinet is located in the Rad-Chem Department's key cabinet. If any of the contents are missing, a Radiation-Chemistry Foreman or Health Physicist should be notified.

G. CHECKLISTS

1. None.

H. TECHNICAL SPECIFICATION REFERENCES

1. None.

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ENVIRONS SAMPLING SUPPLIES

QEP 550-T1
Revision 6
September 1983

Inventory completed* _____
signature/date

Reviewed _____
signature/date

*Circle items missing from inventory

DESCRIPTION	LOCKER #1	LOCKER #2	DECON LOCKER #3
SURVEY INSTRUMENTATION			
High range cutie-pie ionization chamber (at least up to 50 R/hr)	1 # _____ Due _____	1 # _____ Due _____	
GM survey meter (β, γ) capable of measuring < .02 mR/hr	1 # _____ Due _____	1 # _____ Due _____	1 # _____ Due _____
Beta-gamma probe HP-210	1	1	1
SH-4 sample holder w/H.P. 210 probe	1	1	
Spare tube for H.P. 210 probe	2	2	
Check sources for cutie pie	1	1	
Check sources for GM survey meter	1	1	1
Spare batteries for C.P. instruments	4 Date _____	4 Date _____	
Spare "D" cells for GM survey meter	5 Date _____	5 Date _____	5 Date _____
SAMPLE TAKING EQUIPMENT			
Air sampler (operated either with battery or portable generator)	1 # _____ Due _____	1 # _____ Due _____	
Particulate filter paper for air sampler	100	100	
Silver zeolite cartridges	25	25	

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DESCRIPTION	LOCKER #1	LOCKER #2	DECON LOCKER #3
Air sample data tags	50	50	
Air sample plastic bags, approx. 3" x 8"	50	50	
50' extension cord	1	1	
Battery booster cables	1	1	
Tripod for air sampler	1	1	
Swipes - bag terri towels	1	1	2
Nu-con type smears w/folder	50	50	50
Plastic bottles	10	10	
Shovel - folding camp type	1	1	
Plastic bags - approx. 12" x 18"	25	25	
Plastic Sample Containers - approx. 1 qt.	10	10	
PROTECTIVE CLOTHING			
Masking tape - 2" roll	2	2	2
Box of plastic gloves	1	1	1
Rubbers and shoe covers	3 pair	3 pair	
Disposable SWP coveralls	3	3	6
Rain gear (plastic disposable suits)	3	3	
Head covers (surgeons caps)	3	3	
Full face respirators w/combination filter/charcoal cartridges	3	3	
Non-disposable SWP coveralls	3	3	
SAFETY EQUIPMENT			
Lantern	1	1	
Spare 6 volt batteries for lantern	1 Date _____	1 Date _____	
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DESCRIPTION	LOCKER #1	LOCKER #2	DECON LOCKER #3
SAFETY EQUIPMENT (CONTINUED)			
Spare bulbs for lanterns	2	2	
Safety flares	2	2	
100' radiation rope	1	1	1
<u>Signs</u>			
HIGH RADIATION AREA	4	4	
HIGH RAD AREA (CONTAMINATED)	4	4	
RADIATION AREA	4	4	
AIRBORNE RADIOACTIVITY AREA	4	4	
RADIOACTIVE MATERIALS AREA	4	4	4
RADIATION AREA (CONTAMINATED)	4	4	4
Radioactive materials stickers	30	30	30
First aid kit	1	1	1
DOSIMETRY SUPPLIES			
Film or TLD badges (for personnel dosimetry and/or area exposure acquisition)	12 Date _____	12 Date _____	
0-200 mR self-reading dosimeters	3 Color _____	3 Color _____	
High range self-reading dosimeters \geq 50R	3 Color _____	3 Color _____	
Dosimeter charger	1	1	
Timekeeping log sheets	3	3	

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DESCRIPTION	LOCKER #1	LOCKER #2	DECON LOCKER #3
INFORMATION MATERIALS			
GSEP Book	1	1	1
Environmental Emergency Procedures	1	1	
Manual for GM survey instrument and CP's	1	1	1
Operating instructions for portable generators	1	1	
Area maps	1	1	
Site maps	1	1	
MISCELLANEOUS SUPPLIES			
Pocketknife	1	1	
Scissors	1	1	
Stop watch	1	1	
Emergency log book	1	1	1
Clipboards and paper pads	2 ea	2 ea	1
Felt tip markers	2	2	2
Pencils	6	6	6
American and Phillips screwdrivers and Allen wrench set	1 ea	1 ea	1 ea
Set of keys for environs stations and metro tower	1 ea	1 ea	
Plastic garbage bags	4	4	10
Bolt Cutters	1	1	
2 Portable Generators (Storage Cage)			
Ladder (Storage Cage)			
2 Walki-Talkies (Located in Rad-Chem Office)			
Potassium Iodide Tablets	6 btls.	6 btls.	6 btls.

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DESCRIPTION	LOCKER #1	LOCKER #2	DECON LOCKER #3
DECON MATERIALS			
Package paper towels			1
Scrub brush			2
Styrofoam cups			10
Plastic pails			2
Laundry soap			2 boxes
4% potassium permanganate			1
4% sodium bisulfate			1

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OPERATIONAL SUPPORT CENTER
EMERGENCY SUPPLIES CABINET

QEP 550-T2
Revision 5
September 1983

ID/22

The cabinet labeled "EMERGENCY EQUIPMENT STORAGE ONLY" located in the Operational Support Center (meeting room adjacent to TSC) shall be stocked with the listed protective equipment for use in the event of an emergency when other such equipment is not available.

Requirements for cabinet: Inventory completed * _____
signature/date

Reviewed _____
signature/date

DESCRIPTION	QUANTITY
SWP Coveralls	6 Pair
Rubbers	6 Pair
Shoe Covers	6 Pair
Gloves	6 Pair
Surgeon Caps	6
Hoods	6
Half Masks w/Canisters	6
Full Face Masks w/Canisters	6
Masking Tape 2"	1 Roll
Paper Towels	1 Pack
Flashlights w/Batteries	6
	Date _____
Rain Gear	6 Sets
Surgeon Gloves	1 Box
Pencil Dosimeters 500 MR	6
	Color _____
Pencil Dosimeters 5R	6
	Color _____
GM Survey Instrument	1
	# _____ Due _____
Cutie Pie Survey Instrument	1
	# _____ Due _____

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DESCRIPTION	QUANTITY
Potassium Iodide Tablets	48 btls.
GSEP Manual	1
Environmental Emergency Procedures	1
Illinois Plan for Radiological Accidents	1
Peus	2

EMERGENCY SITUATION
FILM DOSIMETERS

IP '4R

Emergency film dosimeters shall be stored in green holders in the station's guardhouse and the two environs team lockers in the guardhouse. This film will be distributed to personnel according to recommendations of the Rad-Chem Director. Film used for environs monitoring will be distributed to locations according to recommendations of the environs director. Quantities of film are as follows:

LOCATION	# OF FILM	DUE DATE
Guardhouse*	70	
Environs Locker #1	12	
Environs Locker #2	12	

* In case of an evacuation of station personnel, the emergency film will be transferred to the applicable access control point for the station.

INVENTORY COMPLETED _____
Signature/Date

REVIEWED _____
Signature/Date

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EMERGENCY OPERATIONS
FACILITY SUPPLIES

QEP 550-T4
Revision 4
September 1983

The emergency operations facility is near Morrison, Illinois. The inventory of supplies shall be completed quarterly.

Inventory Completed _____
Signature/Date

Reviewed _____
Signature/Date

- A - Stored at EOF.
- B - Either stored at EOF or supplied to EOF upon activation as necessary.
- C - Provided to EOF upon short notice (pre-positioned for exercises).

DESCRIPTION	QUANTITY	CATEGORY
SURVEY EQUIPMENT		
Dose Rate Monitor (such as RM-16) # _____ Due _____	1	A
Dose Rate Meter (CP) # _____ Due _____	1	A
Contamination Survey Meter (GM) # _____ Due _____	1	A
HP-210 Probe w/Sample Holder	2	A
Spare HP-210 Probe	1	B
Spare Batteries for CP and GM Date _____	1 set	A
Nu-Con smears	1 box	A
Survey Sheets	10	A
SAMPLE TAKING EQUIPMENT		
	# _____ Due _____	
Air Sampler Powered by Electrical Outlet	1	A
Particulate Filter Paper for Air Sampler	100	A
Silver Zeolite Cartridges	20	B

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DESCRIPTION	QUANTITY	CATEGORY
PROTECTIVE CLOTHING		
ANTI-C Clothing Sets* (various sizes)	90	B
Surgeons Gloves	1 box	A
Cotton Glove Liners	90 pair	A
Rain Gear	10	B
Latex Gloves	90 pair	A
Masking Tape (2" rolls)	5	A
Full Face Respirator w/Combination Filter/Charcoal Cartridges	50	B
Half Masks w/Combination Cartridges	15	B
*ANTI-C Clothing Set Includes: 1. Coveralls 2. Booties 3. Rubbers 4. Gloves 5. Surgeons Cap		
SAFETY EQUIPMENT		
Flashlights w/Batteries Date _____	12	A
First Aid Kits	2	A
Spare Bulbs for Flashlights	10	A
Spare Batteries for Flashlights Date _____	10	A
Radioactive Materials Stickers	50	A
Potassium Iodide Tablets	6 btls.	A
DOSIMETRY SUPPLIES		
Pencil Dosimeters 0-200 MR Color _____	50	B
Pencil Dosimeters 0-1 R Color _____	10	B
Dosimeter Charger	1	B
Spare Batteries for Dosimeter Charger Date _____	2	A
Film Dosimeters in Green Holders Date _____ (six month time limit on film)	50	A
Timekeeping Log Sheets	50	A

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DESCRIPTION	QUANTITY	CATEGORY
CLERICAL SUPPLIES		
Transparent Tape	2 rolls	A
Bulletin Board	1	B
Bulletin Board Pins (various colors)	3 boxes	A
Easel and Pads (EOF)	3	A
Easel and Pads (Press Room)	1	A
White Boards	2	A
Pads of Paper	20	A
Clip Boards	5	A
Three Part Note Paper	100	A
Pens (various colors)	10 boxes	A
Pencils	5 boxes	A
Pencil Sharpener	1	A
White Board Markers (various colors)	10	A
Paper Clips	2 boxes	A
Staplers	2	A
Staples	2 boxes	A
Scissors	1 pair	A
Window Cleaner	1 can	A
Paper Towels	1 package	A
Xerox Machine	1	B
Xerox Paper (reams)	10	B
Telecopier	1	B
Telecopy Paper	250	B
Typewriter	1	B
Typing Paper (packages)	2	B
Grease Pencils	1 box	A
Spare Easel Pads	2	A

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DESCRIPTION	QUANTITY	CATEGORY
INFORMATIONAL MATERIALS		
Procedure Set	1	A
FSAR's	1	B
ODCM	1	A
Environmental Emergency Procedures	1	A
GSEP Manual	1	A
Technical Specifications	1	B
C.C.C. EPIP's	1	A
Illinois Plan for Radiological Accidents	1	A
P & ID's	1	B
NARF Forms	50	A
Edison Phone Directory	1	A
State Maps	2 sets	A
Area Map	1	A
Overhead Projector (Press Room)	1	A
Area Telephone Directories	2	B
GSEP Phone List	4	A
Iowa Plan for Radiological Accidents	1	A
COMMUNICATIONS EQUIPMENT		
NARS Phone (green)	1	A
CCC Dedicated Phone (yellow)	1	A
Microwave Radio Base	1	A
Outside Line Telephones	8	A
Company Internal Network Telephones	5	A

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DESCRIPTION	QUANTITY	CATEGORY
MISCELLANEOUS SUPPLIES		
Laundry Bags	4	A
Respirator Sanitizer	2 boxes	A
Paper Towels	4 packages	A
Duct Tape (2" rolls)	2 rolls	A
Lead Cave (small)	1	A
Extension Cord	1	B
Plastic Bags (assorted sizes)	100	A

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TECHNICAL SUPPORT CENTER SUPPLIES

QEP 550-T5
Revision 2
September 1983

ID/4T The Technical Support Center shall be inventoried quarterly.

Inventory completed _____
Signature/Date

Reviewed _____
Signature/Date

CATEGORIES

- A - Stored at TSC
- B - Provided to TSC upon short notice

DESCRIPTION	QUANTITY	CATEGORY
SURVEY EQUIPMENT		
Dose Rate Monitor (such as RM-16) # _____ Due _____	1	A
Dose Rate Meter (CP) # _____ Due _____	1	A
Contamination Survey Meter (GM) # _____ Due _____	2	A
HP-210 Probe	2	A
Spare HP-210 Probe	1	A
Spare Batteries for CP and GM Date _____	1 set	A
Nu-Con Smears	1 box	A
Survey Sheets	10	A
Ping Air Monitor # _____ Due _____	1	A
Alpha Probe for GM	2	A
PROTECTIVE CLOTHING		
ANTI-C Clothing Sets* (various sizes)	25	A
Surgeons Gloves	2 boxes	A
Rain Gear	10	A
Masking Tape (2" rolls)	5	A
Full Face Respirator w/Combination Filter/Charcoal Cartridges	25	A

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DESCRIPTION	QUANTITY	CATEGORY
SAFETY EQUIPMENT		
Flashlights w/Batteries Date _____	12	A
First Aid Kit	1	B
Spare Bulbs for Flashlights	10	A
Spare Batteries for Flashlights Date _____	10	A
Radioactive Materials Stickers	50	A
Potassium Iodide Tablets	200	B
DOSIMETRY SUPPLIES		
Dosimeter Charger	1	A
Pencil Dosimeters 0-500 MR Color _____	10	A
Pencil Dosimeters 0-5 R Color _____	10	A
Spare Batteries for Dosimeter Charger Date _____	2	A
Timekeeping Log Sheets	50	A
MISCELLANEOUS SUPPLIES		
Paper Towels	4 packages	A
Duct Tape	2 rolls	A
Extension Cord	1	B

*ANTI-C Clothing Set Includes: 1. Coveralls 2. Booties 3. Rubbers
4. Gloves 5. Surgeons Cap

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MOLINE PUBLIC HOSPITAL
RADIATION EMERGENCY AREA
SUPPLIES AND EQUIPMENT

QEP 550-T6
Revision 4
September 1983

The following equipment and supplies will be stored at the Moline Public Hospital in the Radiation Emergency Area. This equipment and supplies are to be used in conjunction with the decontamination and treatment of radioactively contaminated patients at Moline Public Hospital. If discrepancies are found, a Health Physicist should be notified. A quarterly inventory shall be performed. An inventory should be performed after each use.

Inventory Completed _____ Signature/Date

Reviewed _____ Signature/Date

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Requirements for Radiation Emergency Area:

DESCRIPTION	QUANTITY
Count Rate Meter (PRM-4A or equivalent) with HP-210 probe. # _____ Due _____	1
"Cutie Pie" Ion Chamber # _____ Due _____	1
Spare Probe for HP-210	1
Self-reading Dosimeters, 0-200 mR Color _____	10
0-1R Color _____	4
Film Badges Date _____	10
Finger Ring Badges Date _____	6
Dosimeter Charger	1
Batteries, 9 V Transistor Date _____	4
1.5 V D-cell Date _____	5
15 V Photo/Electronic Date _____	1
1.5 V "AA" Date _____	2
Protective Clothing:	12 packages
Gowns, disposable	
Gloves, surgical sterile	
non-sterile	
Plastic Aprons	
Shoe Covers, disposable	
Face Masks	
Head Covers	
Sheets, barrier, disposable	3
Basic Pack II	1

DESCRIPTION	QUANTITY
Towels, disposable	2 packages
Pre-cut Labels	50
Shield, mobile, lead glass	1
Decontamination kit	1
Sample Taking Kit	1
Step-Off Pads	2 sets
Radioactive Truck Placards	4
Signs:	
"Caution Radioactive Material"	2
"High Radioactivity Area Signs"	2
"High Radiation Area"	2
"Radioactive Material"	3
"Airborne Radioactivity Area"	2
"Radiation Area - Radioactive Material"	2
Decontamination Table Top	1
Water Receptacle, 30 gallon	1
Lead Container	1
Trash Can (for contaminated articles)	1
Radiation Accident Posters	1
Showerhead and Retractable Hose	1
Kraft Paper or Pyrokare	1 roll
Respirator, 1/2 mask	9
Radiation Warning Rope	50 ft.
Herculite, (sized as per REA procedures) or plastic floor covering	1 each
Radiation Tags:	
"Caution Radioactive Material"	20
"Unconditional Release"	20

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DESCRIPTION	QUANTITY
Radiation Stickers:	
"Caution Radioactive Material"	20
"Contaminated Clothing"	20
Plastic Bags:	
small	20
medium	20
large	20
Cotton Balls	1 box
Manual: "Decontamination of an Injured and Contaminated Patient"	1

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