



Nebraska Public Power District
Nebraska's Energy Leader

NLS2002043

April 10, 2002

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Gentlemen:

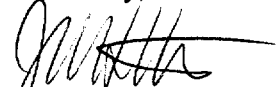
Subject: Emergency Plan Implementing Procedure
Cooper Nuclear Station, NRC Docket 50-298, DPR-46

Pursuant to the requirements of 10 CFR 50, Appendix E, Section V, "Implementing Procedures," Nebraska Public Power District is transmitting the following Emergency Plan Implementing Procedure (EPIP):

EPIP 5.7.21 Revision 23 "Emergency Equipment Inventory"

Should you have any questions concerning this matter, please contact me.

Sincerely,



J. A. Hutton
Plant Manager

/nr

Enclosure

cc: Regional Administrator w/enclosure (2)
USNRC - Region IV

Senior Resident Inspector w/enclosure
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NPG Distribution w/o enclosure

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<u>CNS OPERATIONS MANUAL</u> EPIP 5.7.21 EMERGENCY EQUIPMENT INVENTORY	USE: REFERENCE ⊗ EFFECTIVE: 3/27/02 APPROVAL: SORC OWNER: S. C. REZAB DEPARTMENT: EP
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1. PURPOSE

This procedure provides a means of ensuring the operational readiness and availability of equipment required for the immediate action steps of all four Emergency Classification action levels.

2. INSTRUCTIONS

- [] 2.1 PM cards, from the CNS Maintenance Planning Office, shall be issued to those departments responsible for emergency equipment inventory once per quarter. Emergency equipment inventory shall also be performed after each use.
 - [] 2.1.1 The Radiological Protection Department is responsible for the inventory of emergency equipment listed on Attachments 1, 2, 4, 5, 6, 7, and 8.
 - [] 2.1.2 The Maintenance Department is responsible for the inventory of emergency rescue equipment listed on Attachment 3.
- [] 2.2 Personnel responsible for emergency equipment inventory shall obtain an emergency locker seal prior to opening an Emergency Locker. A supply of locker seals shall be maintained by the Emergency Preparedness Department.
- [] 2.3 The inventory shall be performed utilizing the appropriate attachment of this procedure.

- [] **NOTE** - An operability check need not be performed on communication equipment listed in this procedure that is located in the TSC, OSC, or EOF. Testing of these communication devices is conducted by the Emergency Preparedness Staff on a periodic basis.

- [] 2.4 Emergency equipment shall be inventoried, inspected, equipment calibration stickers checked, and an operability check shall be performed on all emergency equipment/instruments.

- [] 2.5 Operability, calibration, and equipment maintenance shall be conducted per normal station procedures.

- [] 2.6 During inspection, any equipment found inoperative or out of calibration shall be replaced in a timely manner.

- [] 2.7 During inspection, if any deficiency of inventory is discovered, contact the Emergency Preparedness Department.

- [] 2.8 Instruments or equipment may be routinely removed from inventory for purposes of calibration or repair. Instruments and equipment being removed for calibration or repair should be immediately replaced with similar reserve instruments or equipment, where such reserves exist. Instruments or equipment for which there are not reserves should be returned to inventory immediately upon completion of calibration or repair activities.

- [] 2.9 During the inventory process, the expiration date of the supply of Potassium Iodide (KI) located within the emergency response facilities shall be checked. If the expiration date is within 3 months from the date of the inventory currently being performed, contact the Emergency Preparedness Department and advise them of the expiration date. Emergency Preparedness Department personnel shall order a new supply of KI or receive an extension of the expiration date from the manufacturer.

- [] 2.10 Upon completion of the emergency equipment inventory, the PM card shall be signed off, indicating inventory is complete, and sent to the Emergency Preparedness Department for review. Emergency Preparedness Department will return the PM card to CNS Maintenance Planning Office. Documentation of emergency equipment inventories shall be kept on file at CNS Maintenance Planning Office.

ATTACHMENT 1 EMERGENCY EQUIPMENT MAINTAINED AT CONTROL ROOM
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NOTE - The air breathing equipment is not within the Emergency Locker, but the cases are located near the Emergency Locker for convenience, inspection, and maintenance.

ITEM	QUANTITY
1. Coveralls, Paper	25 Pairs
2. Shoe Covers, Disposable 14"	24 Pairs
3. Gloves, Disposable	2 Boxes
4. Geiger-Mueller Survey Meter (Range 0-50 mrem/hr)	1 Each
5. Ion-Chamber Survey Instrument (Range 0-50 rem/hr)	3 Each
6. Dosimeter, Direct Reading Electronic	6 Each
7. Spare Batteries ("AA" Cell)	12 Each
8. Thyroid Blocking Tablets (KI) Check Expiration Date Per Step 2.9	20 Bottles
9. Radiation Warning Sign and Appropriate Inserts	4 Each
10. Radiation Barrier Rope, 200'	1 Coil
11. Radiation Warning Tape	1 Roll
12. First Aid Kit	1 Each
13. Plastic Bag, Large	6 Each
14. Duct Tape, 2"	3 Rolls
15. Self-Contained Breathing Apparatus (with Voice Communicators)	6 Each
16. Full Face Respirators with Single Particulate Canisters	6 Each
17. Full Face Respirators with Single Particulate Canisters and Voice Communicators	6 Each
18. Spare Air Cylinders	6 Each
19. Spare Respirator Canister	12 Each
20. Hand Lantern, with 6 Volt Battery	2 Each
21. Flashlight, with Two "D" Cell Batteries	8 Each
22. Spare Battery for Hand Lantern (6 Volt)	2 Each
23. Spare Batteries ("D" Cell, 12 Per Box)	1 Box
24. Spare Battery (9 Volt)	24 Each
25. General Arrangement Drawing	1 Set
26. Step-Off Pad	1 Each
27. Radiation Monitor (Frisker)	1 Each
28. Spare Batteries ("C" Cell)	15 Each
29. Spare Batteries (30 Volt)	2 Each
30. Meals-Ready-To-Eat (MREs)©	> 20 Each
31. Smear Book (10 Smears per book)	10 Each

ATTACHMENT 2 EMERGENCY EQUIPMENT AT OSC

ITEM	QUANTITY
1. Flashlight, with Two "D" Cell Batteries	25 Each
2. Masking Tape	6 Rolls
3. Particulate Filter, 2"	1 Box
4. Charcoal and Silver Zeolite Cartridge	10 Each
5. Air Sample Plastic Bag and Label	20 Each
6. Smear Book (10 Smears Per Book)	10 Each
7. Spare Batteries ("D" Cell, 12 Per Box)	2 Boxes
8. Spare Batteries ("AA" Cell)	4 Each
9. Step-Off Pad	4 Each
10. Protective Clothing (Full Set)	6 Each
11. Self-Contained Breathing Apparatus	8 Each
12. Spare Bottle for SCBA	12 Each
13. Thyroid Blocking Tablets (KI) Check Expiration Date per Step 2.9	100 Bottles
14. Survey Instrument Ion-Chamber (Range 0 to 50 rem/hr)	2 Each
15. I&C/Electrical Tool Kit	4 Each
16. Volt Ohmmeter	2 Each
17. Coveralls, Paper	25 Pairs
18. Shoe Covers, Disposable 14"	25 Pairs
19. Gloves, Disposable	1 Box
20. Radiation Barrier Rope, 200'	1 Roll
21. Radiation Monitor (Frisker)	2 Each
22. Radiation Warning Sign with Appropriate Inserts	12 Each
23. Mechanical Maintenance Tool Kit	2 Each
24. Continuous Air Monitor	1 Each
25. PD-1 Area Radiation Monitor	3 Each
26. Personnel Radiation Monitor	1 Each
27. Gloves, Electrical, Low Voltage	1 Pair
28. Continuous Air Monitor Particulate Filter (CNSNO 35881)	10 Each
29. Hard Hat	10 Each
30. Safety Glasses	10 Each
31. Ear Plugs	1 Box
32. Portable Air Sampler	1 Each
33. Spare Battery (9 Volt)	12 Each
34. Spare Battery ("C" Cell)	12 Each
35. Geiger-Mueller Survey Instrument (Range 0-50 mrem/hr)	1 Each

ATTACHMENT 3 EMERGENCY RESCUE EQUIPMENT LOCKER

ITEM	DESCRIPTION	UNIT	QUANTITY
1.	Wrecking Bars	Each	2
2.	Bolt Cutters	Each	2
3.	Hacksaw and Blades	Each	2
4.	Come-Along	Each	1
5.	Cable Sling, 1/2" x 3'	Each	2
6.	Cable Sling, 1/2" x 6'	Each	2
7.	Hydraulic Jack, 3 Ton	Each	1
8.	Hydraulic Jack, 5 Ton	Each	1
9.	Sledge Hammer, Various Sizes	Each	4
10.	Porta Power	Each	1
11.	Web Slings (2" - 20' Long, 2" - 10' Long)	Each	4
12.	Sound Powered Phones	Each	1
13.	Safety Belt and Line	Each	1
14.	Fire Axe	Each	1
15.	Crow Bar	Each	1
16.	200' - 3 Part Block and Tackle	Each	1
17.	Battery Lanterns	Each	2

1. GENERAL SUPPLIES AND PROTECTION EQUIPMENT

ITEMS	QUANTITY
1. Coveralls, Paper	25 Pair
2. Shoe Covers	25 Pair
3. Gloves, Disposable	1 Box
4. PD-1 Area Radiation Monitor	3 Each
5. Continuous Air Monitor	1 Each
6. Radiation Monitor (Frisker)	1 Each
7. Flashlight, with 2 "D" Cell Batteries	8 Each
8. Spare Batteries ("D" Cell, 12 Per Box)	1 Box
9. Book Of Team-Dispatch Forms (Procedure 5.7.15, Attachment 1)	1 Each
10. Thyroid Blocking Tablets (KI) Check Expiration Date Per Step 2.9	20 Bottles
11. Step-Off Pad	2 Each
12. Continuous Air Monitor Particulate Filter (CNSNO 35881)	10 Each
13. Spare Batteries ("AA" Cell, 4 per Box)	1 Box

1. PROTECTION EQUIPMENT

NOTE - The air breathing equipment is not within the Emergency Locker, but the cases are near the Emergency Locker for convenience, inspection, and maintenance.

ITEM	QUANTITY
1. Coveralls, Paper	25 Each
2. Shoe Covers, Disposable 14"	25 Pairs
3. Gloves, Disposable	1 Box
4. Extendable Probe Survey Instrument (Range 0-1,000 rem/hr)	1 Each
5. Ion-Chamber Survey Instrument (Range 0-50 rem/hr)	1 Each
6. Geiger-Mueller Survey Instrument (Range 0-50 mrem/hr)	1 Each
7. Sample Holder With Pancake Type Detector	1 Each
8. Scaler Electronic Package (MS-2)	1 Each
9. Dosimeter, Direct Reading, Electronic	1 Each
10. Spare Batteries ("AA" Cell)	8 Each
11. Filters For Air Sampler; 2"	1 Box
12. Charcoal Cartridge For Air Sampler	10 Each
13. Silver Zeolite Cartridge For Air Sampler	10 Each
14. Extension Cord, Electric (50')	2 Each
15. PD-1 Area Radiation Monitor	3 Each
16. Continuous Air Monitor	1 Each
17. Self-Contained Breathing Apparatus	4 Each
18. Spare 45 Air Cylinder	4 Each
19. Tape, Duct, 2"	3 Rolls
20. Plastic Sheeting, 20' x 20'	2 Sheets
21. Plastic Bag, Small	1 Box
22. Plastic Bag, Large	6 Each
23. Radiation Warning Sign with Appropriate Inserts	12 Each
24. Smear Book (10 Smears Per Book)	20 Each
25. Radiation Barrier Rope, 200'	1 Coil
26. Radiation Warning Tape	1 Roll
27. Hand Lantern with 6 Volt Battery	1 Each
28. Flashlight, with Two "D" Cell Batteries	8 Each
29. Spare Battery for Hand Lantern (6 Volt)	1 Each
30. Spare Batteries ("D" Cell, 12 Per Box)	1 Box

ATTACHMENT 5 EMERGENCY EQUIPMENT MAINTAINED AT EOF

ITEM	QUANTITY
31. Pocket Knife	1 Each
32. Small Hand Tool Kit with Straight Slot Screwdriver, Phillips Screwdriver, Small Pliers, and Small Vise Grip	1 Each
33. Step-Off Pads	2 Each
34. Procedure 9.INST.58, Portable Beta-Gamma Counting Instruments	1 Each
35. Thyroid Blocking Tablets (KI) Check Expiration Date per Step 2.9	200 Bottles
36. Radiation Monitor (Frisker)	2 Each
37. Continuous Air Monitor Particulate Filter (CNSNO 35881)	10 Each
38. Spare Batteries (9 Volt)	12 Each
39. Spare Batteries ("C" Cell)	6 Each
40. Portable Air Sampler	1 Each

2. EMERGENCY DOWNWIND SURVEY KIT SUPPLIES (two complete kits are required).

NOTE - The Downwind Survey Team Supplies (Items 1 through 13) are located in the EOF. Items 14 through 47 may be stored in the Downwind Survey Vehicles.

ITEM	QUANTITY
1. Full Face Respirator	2 Each
2. Hand Lantern	1 Each
3. Spare Battery For Hand Lantern	1 Each
4. Calculator	1 Each
5. Dosimeter, Direct Reading Electronic	2 Each
6. Spare Batteries ("AA")	4 Each
7. Hand Held Radio	1 Each
8. Gieger-Mueller Survey Instrument (Range 0-50 mrem/hr)	1 Each
9. Ion Chamber Survey Instrument (Range 0-50 rem/hr)	1 Each
10. Spare Battery ("D" Cell)	4 Each
11. Spare Battery (30 Volt)	1 Each
12. Spare Battery (9 Volt)	4 Each
13. Thyroid Blocking Tablets (KI) Check Expiration Date per Step 2.9	2 Bottles
14. Lowcut Rubber Shoes	4 Each
15. 250 ml Square Bottle	6 Each

ATTACHMENT 5 EMERGENCY EQUIPMENT MAINTAINED AT EOF

ITEM	QUANTITY
16. One Liter Bottle	4 Each
17. Masslin Cloths	1 Package
18. One-Piece Plastic Coveralls	2 Each
19. Shovel	1 Each
20. Combination Cartridge For Respirator	8 Each
21. Masking Tape	2 Rolls
22. Emergency Action Log	1 Pad
23. Procedure 9.EPIN.1, Emergency Air Samplers	1 Each
24. Plastic Sheeting	1 Roll
25. Complete Set of EPIPs	1 Each
26. Bolt Cutters	1 Each
27. Small Plastic Bag	50 Each
28. Grass Shears	1 Each
29. Paper Coveralls	4 Each
30. 2" Air Sample Filters	1 Box
31. Silver Zeolite Cartridge	6 Each
32. Charcoal Cartridge	6 Each
33. 2" Millipore Air Sample Filters	1 Box
34. Air Sampler with Head	1 Each
35. Smear Book (10 Smears Per Book)	10 Each
36. Radioactive Material Sticker	50 Each
37. Sample Label	25 Each
38. 2cc Vial	10 Each
39. Plastic Pipet	10 Each
40. Lined Paper Pad	1 Pad
41. Clipboard	2 Each
42. 10-Mile Radius Map	2 Each
43. Site Map	1 Each
44. Large Plastic Bags	25 Each
45. Disposable Gloves	1 Box
46. Ink Pens	3 Each
47. Tweezers	1 Each

3. DECONTAMINATION SUPPLIES

NOTE - Following supplies are available in or near the EOF Decon Room.

ITEM	QUANTITY
1. Towels	10 Each
2. Soap	3 Bars
3. Septisol (Germicide)	1 Can
4. Lanolin	1 Tube
5. Swabs, Cotton Tipped, 100s	3 Packages
6. Compresses, Gauze, 3" x 3", 100s	2 Packages
7. Towels, Paper	1 Roll
8. Beaker, Plastic, 150 ml	3 Each
9. Hand Brush, Soft Bristle	2 Each
10. Soap, Pumice	2 Bars

4. FIRST AID AND RESCUE EQUIPMENT

ITEM	QUANTITY
1. First Aid Kit	1 Each
2. Stretcher	1 Each
3. Rope, 1/2" - 50'	1 Coil

1. PROTECTION EQUIPMENT AND ADMINISTRATIVE SUPPLIES

ITEM	QUANTITY
1. Coveralls, Paper	50 Each
2. Shoe Covers, Disposable 14"	50 Pairs
3. Gloves, Disposable	2 Boxes
4. Gieger-Mueller Survey Instrument (Range 0-50 mrem/hr)	1 Each
5. Ion-Chamber Survey Instrument (Range 0-50 rem/hr)	1 Each
6. Sample Holder with Pancake Type Detector	1 Each
7. Scaler Electronic Package (MS-2)	1 Each
8. Dosimeter, Direct Reading Electronic	1 Each
9. Spare Batteries ("AA" cell)	4 Each
10. Portable Air Sampler w/Head (High Volume) (60 Hz, 120 VAC)	1 Each
11. Inverter (12 VDC To 120 VAC)	1 Each
12. Filter for Air Sampler; 2"	1 Box
13. Charcoal Cartridge for Air Sampler	5 Each
14. Silver Zeolite Cartridge for Air Sampler	5 Each
15. Extension Cord, Electric (50')	1 Each
16. Tape, Duct, 2"	3 Rolls
17. Plastic Sheeting, 20' x 20'	2 Sheets
18. Plastic Bag, Small	1 Box
19. Plastic Bag, Large	6 Each
20. Radiation Warning Sign with Appropriate Inserts	12 Each
21. Smear Book	20 Each
22. Radiation Barrier Rope, 200	1 Coil
23. Radiation Warning Tape	1 Roll
24. Hand Lantern with 6 Volt Battery	3 Each
25. Flashlight, with Two "D" Cell Batteries	8 Each
26. Spare Battery for Hand Lantern (6 Volt)	3 Each
27. Spare Batteries ("D" Cell)	1 Box
28. Pocket Knife	1 Each
29. Small Hand Tool Kit with Straight Slot Screwdriver, Phillips Screwdriver, Small Pliers, and Small Vise Grip	1 Each
30. Shovel	1 Each
31. Liter Bottle	6 Each
32. Step-Off Pad	2 Each
33. Thyroid Blocking Tablets (KI) Check Expiration Date per Step 2.9	60 Bottles

ATTACHMENT 6 EMERGENCY EQUIPMENT MAINTAINED AT AEOF

ITEM	QUANTITY
34. Radiation Monitor (Frisker)	1 Each
35. Spare Batteries (9 Volt)	6 Each
36. Spare Batteries ("C" cell)	1 Box

2. DECONTAMINATION SUPPLIES

ITEM	QUANTITY
1. 55 Gallon Radwaste Barrel with Lid	3 Each
2. Disposable Coveralls	50 Each
3. Disposable Gloves, 25 Pair/Box	2 Boxes
4. 2" Masking Tape	3 Rolls
5. Small Poly Bag	12 Each
6. Large Poly Bag	36 Each
7. Plastic Bucket	4 Each
8. Bar Soap	24 Each
9. Bath Towel	~ 50.
10. Poly Sheeting	1 Roll
11. Procedure 9.RADOP.7, Personnel Decontamination	6 Copies
12. Pumice Soap	2 Bars
13. Septisol (Germicide)	1 Can
14. Lanolin	1 Tube
15. Procedure 9.INST.58, Portable Beta-Gamma Counting Instruments	1 Each
16. Swabs, Cotton Tipped, 100s	3 Packages
17. Compresses, Gauze, 3" x 3", 100s	2 Packages
18. Towels, Paper	1 Roll
19. Breaker, Plastic 150 ml	3 Each
20. Hand Brush, Soft Bristle	10 Each

3. FIRST AID AND RESCUE EQUIPMENT

ITEM	QUANTITY
1. First Aid Kit	1 Each
2. Stretcher	1 Each

ATTACHMENT 7 EMERGENCY EQUIPMENT MAINTAINED FOR AMBULANCE

ITEM	QUANTITY
1. Dosimeter, Direct Reading Electronic	5 Each
2. TLD Badge	5 Each
3. Geiger-Mueller Survey Instrument (CPM)	1 Each
4. Ion-Chamber Survey Instrument (0-5 rem/hr)	1 Each
5. Radiation Tag	10 Each
6. Spare Batteries ("AA" Cell)	8 Each
7. Smear Book	5 Each
8. Form CNS RP-25, TLD Badging Record	1 Each
9. Spare Batteries (9 Volt)	6 Each
10. Spare Batteries ("C" Cell)	1 Box

ATTACHMENT 8 EMERGENCY EQUIPMENT MAINTAINED AT HOSPITAL
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ITEM	QUANTITY
1. Radiation Barrier Rope	1 Roll
2. Masking Tape	10 Rolls
3. Brown Paper	1 Roll
4. Plastic Sheeting	1 Roll
5. Applicable Radiation Warning Signs with Inserts, as appropriate	5 Each
6. Shoe Covers	15 Pairs
7. Bags, Plastic (Large)	10 Each
8. Bags, Plastic (Small)	20 Each
9. Radiation Marking Tape	1 Roll
10. Coveralls, Paper	25 Pairs
11. Gloves, Rubber Disposable	2 Boxes
12. Cardboard Boxes, ~ 2' x 3'	6 Each
13. Masslin Cloths	1 Bundle
14. Step-Off Pad	1 Each

1. DISCUSSION

- 1.1 As an emergency situation progresses, conditions may arise which require augmentation of emergency equipment. Additional equipment shall be obtained from normal station stores and utilized on an as-needed basis to support the emergency response.

2. REFERENCES

2.1 CODES AND STANDARDS

- 2.1.1 NPPD Emergency Plan for CNS.
- 2.1.2 NUREG 0654, Revision 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.

2.2 PROCEDURES

- 2.2.1 Radiological Protection Procedure 9.EPIN.1, Emergency Air Samplers.
- 2.2.2 Radiological Protection Procedure 9.INST.58, Portable Beta-Gamma Counting Instruments.
- 2.2.3 Radiological Protection Procedure 9.RADOP.7, Personnel Contamination.

2.3 MISCELLANEOUS

- 2.3.1 QA Finding 92-1900-24.
- 2.3.2 RCR 2002-0014.

2.4 NRC COMMITMENTS

- 2.4.1 © NUREG-0737, Item III.D.3.4, Section 5.2, Emergency Provisions (LQA 8000581-11). Commitment affects Step 30 on Attachment 1.