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

Subject: Beaver Valley Power Station, Unit No. 1 and No. 2
BV-1 Docket No. 50-334, License No. DPR-66
BV-2 Docket No. 50-412, License No. NPF-73
Beaver Valley Power Station Emergency Preparedness Plan and Implementing Procedures

In accordance with 10 CFR Part 50.4, this letter forwards recent revisions of the Beaver Valley Power Station Emergency Preparedness Plan and Implementing Procedures to the Nuclear Regulatory Commission. The changes do not decrease the effectiveness of the Plan and the Plan, as changed, continues to meet the requirements of Appendix E of 10 CFR 50. Therefore, 10 CFR Part 50.54(q) requires that these changes be submitted for information only.

There are no regulatory commitments contained in this letter. If there are any questions concerning this submittal, please contact Ms. Susan L. Vicinie, Manager, Emergency Preparedness at 724-682-5767.

Sincerely,

L. William Pearce

Enclosure 1 – Summary of Changes
Enclosure 2 – Plan/Procedure revisions

c: Mr. T. G. Colburn, NRR Senior Project Manager (w/o Enclosure 2)
Mr. P. C. Cataldo, NRC Sr. Resident Inspector (w/o Enclosure 2)
Mr. H. J. Miller, NRC Region I Administrator (2 copies)

A045

Enclosure 1
Summary of Changes

Revisions to
Beaver Valley Power Station
Emergency Preparedness Plan and Implementing Procedures

The following is a brief summary of the changes made to the Emergency Preparedness Plan and Implementing Procedures.

Emergency Preparedness Plan:

APPENDIX C EMERGENCY IMPLEMENTING PROCEDURE LISTING

Revision 14 added new procedure EPP-IP-7.3 "Emergency Preparedness Testing."

EPP Implementing Procedures:

EPP-IP-2.2 ONSITE MONITORING FOR AIRBORNE RELEASE

Revision 13 standardized the format to be consistent with EP procedures.

EPP-IP-2.3 OFFSITE MONITORING FOR AIRBORNE RELEASE

Revision 14 standardized the format to be consistent with EP procedures and clarified Step 8.1.4 to reference EA/DP as a location for obtaining keys to FMT kits.

EPP-IP-2.4 OFFSITE MONITORING FOR LIQUID RELEASE

Revision 9 standardized the format to be consistent with EP procedures and made various editorial, title, and clarification changes. Figures 1 and 2 were replaced with updated maps and Figures 3 and 4 were replaced with new pictures.

EPP-IP-3.4 EMERGENCY RESPIRATORY PROTECTION

Revision 9 standardized the format to be consistent with EP procedures and made various editorial, title, and clarification changes. Steps 6.2.1.1 and 6.2.1.1.1 were updated to reflect the current number of SCBA units maintained at Unit 1. The reference to air compressor and cascade systems for filling SCBA bottles was removed, and the NOTE before Step 6.2.1.4 was revised to indicate that BVPS maintains a service order with vendors who can provide cylinder refills. New Step 6.2.1.4 was added.

EPP-IP-4.1 OFFSITE PROTECTIVE ACTIONS

Revision 17 standardized the format to be consistent with EP procedures and made various editorial and clarification changes. NRC Regulatory Issue Summary (RIS) 2003-12 was added as a reference in Section 3.1, and a new Step 8.4.4 was added which addresses the RIS. A new Step 6.1.1.7 was added and Attachment A was revised to provided guidance on the issuance of Potassium Iodide (KI). Attachments 1 and 2 were changed to Attachments A and B, and a new Attachment C was added which addresses liquid release notifications.

EPP-IP-5.3 EMERGENCY EXPOSURE CRITERIA AND CONTROL

Revision 9 standardized the format to be consistent with EP procedures and changed "Health Physics Manual (HPM)" to "Radiation Protection (RP) procedures" throughout.

EPP-IP-7.1 EMERGENCY EQUIPMENT INVENTORY AND MAINTENANCE PROCEDURE

Revision 15 standardized the format to be consistent with EP procedures and made clarification changes in Steps 8.1.1 and 8.3.1.

EPP-IP-9.1 EMERGENCY PUBLIC INFORMATION EMERGENCY RESPONSE ORGANIZATION CONTROLLING PROCEDURE

Revision 12 standardized the format to be consistent with EP procedures and made various editorial and title corrections.

EPP-IP-9.3 ACTIVATION, OPERATION, AND DEACTIVATION OF EMERGENCY PUBLIC INFORMATION ORGANIZATION EMERGENCY OPERATIONS FACILITY (EOF)

Revision 5 standardized the format to be consistent with EP procedures and made various editorial and title corrections.

EPP-IP-9.4 ACTIVATION, OPERATION, AND DEACTIVATION OF THE JOINT PUBLIC INFORMATION CENTER (JPIC)

Revision 10 standardized the format to be consistent with EP procedures and made various editorial and title corrections.

EPP-IP-9.5 ACTIVATION, OPERATION, AND DEACTIVATION OF THE PENN POWER CUSTOMER ACCOUNT SERVICES DEPARTMENT

Revision 8 standardized the format to be consistent with EP procedures and made title changes.

EPP/IMPLEMENTING PROCEDURES - EFFECTIVE INDEX

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1/2-EPP-I-1b	Recognition and Classification of Emergency Conditions	Revision 4
1/2-EPP-I-2	Unusual Event	Revision 19
1/2-EPP-I-3	Alert	Revision 18
1/2-EPP-I-4	Site Area Emergency	Revision 18
1/2-EPP-I-5	General Emergency	Revision 19

IMPLEMENTING PROCEDURES

1/2-EPP-IP

1 Series - Activation

1.1	Notification	Revision 31
1.2	Communications and Dissemination of Information	Revision 18
1.3	Turnover Status Checklist ED/ERM	Revision 9
1.4	Technical Support Center (TSC) Activation, Operation and Deactivation	Revision 19
1.5	Operations Support Center (OSC) Activation, Operation and Deactivation	Revision 14
1.6	Emergency Operations Facility (EOF) Activation, Operation and Deactivation	Revision 16
1.7	Emergency Response Organization (ERO) Teams	Revision 12

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1/2-EPP-IP **2 Series - Assessment**

2.1	Emergency Radiological Monitoring	Revision 11
2.2	Onsite Monitoring for Airborne Release	Revision 13
2.3	Offsite Monitoring for Airborne Release	Revision 14
2.4	Offsite Monitoring for Liquid Release	Revision 9
2.5	Emergency Environmental Monitoring	Revision 11
2.6	Environmental Assessment and Dose Projection Controlling Procedure	Revision 14
2.6.1	Dose Projection - Backup Methods	Revision 11
2.6.2	Dose Projection - ARERAS/MIDAS With FSAR Defaults	Revision 13
2.6.3	Dose Projection - ARERAS/MIDAS With Real-Time Inputs	Revision 12
2.6.4	Dose Projection - ARERAS/MIDAS With Manual Inputs	Revision 14
2.6.5	Alternate Meteorological Parameters	Revision 10
2.6.6	Dose Projections By Hand Calculation - Known Isotopic Release	Revision 6
2.6.7	Dose Assessment Based on Field Measurements	Revision 7
2.6.8	Dose Assessment Based on Environmental Measurements and Samples	Revision 6
2.6.9	Integrated Dose Assessment	Revision 6
2.6.10	Ground Contamination Assessment and Protective Action	Revision 7

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	2.6.11 Dose Projection - Miscellaneous Data	Revision 11
	2.6.12 Dose Projection -ARERAS/MIDAS With Severe Accident Assessment	Revision 10
2.7	Liquid Release Estimate	Revision 8
	2.7.1 Liquid Release Estimate - Computer Method	Revision 10
1/2-EPP-IP	**3 Series - Onsite Protective Actions**	
3.1	Evacuation	Revision 8
3.2	Site Assembly and Personnel Accountability	Revision 13
3.3	Emergency Contamination Control	Revision 8
3.4	Emergency Respiratory Protection	Revision 9
3.5	Traffic and Access Control	Revision 9
1/2-EPP-IP	**4 Series - Offsite Protective Actions**	
4.1	Offsite Protective Actions	Revision 17
1/2-EPP-IP	**5 Series - Aid to Personnel**	
5.1	Search and Rescue	Revision 8
5.2	RESERVED	
5.3	Emergency Exposure Criteria and Control	Revision 9
5.4	Emergency Personnel Monitoring	Revision 9

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1/2-EPP-IP	**6 Series - Re-entry/Recovery**	
6.1	Re-entry to Affected Areas - Criteria and Guidance	Revision 10
6.2	Termination of the Emergency and Recovery	Revision 11
1/2-EPP-IP	**7 Series - Maintaining Emergency Preparedness**	
7.1	Emergency Equipment Inventory and Maintenance Procedure	Revision 15
7.2	Administration of Emergency Preparedness Plan, Drills and Exercises	Revision 9
7.3	Emergency Preparedness Testing	Revision 1
1/2-EPP-IP	**8 Series - Fire Fighting**	
8.1	Fires in Radiologically Controlled Areas	Revision 11
1/2-EPP-IP	**9 Series - Nuclear Communications**	
9.1	Emergency Public Information Emergency Response Organization Controlling Procedure	Revision 12
9.2	Reserved	
9.3	Activation, Operation and Deactivation of the Emergency Public Information Organization Emergency Operations Facility (EOF)	Revision 5
9.4	Activation, Operation and Deactivation of the Joint Public Information Center (JPIC)	Revision 10
9.5	Activation, Operation and Deactivation of the Penn Power Customer Account Services Department	Revision 8
1/2-EPP-IP	**10 Series - Corporate Response**	
10.1	Emergency Response Organization Corporate Support	Revision 3

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1/2-EPP-IP **ANNEXES**

Annex A -	Westinghouse Emergency Response Plan	Revision 8
Annex B -	DELETED	
Annex C -	Major Injury Involving Radioactive Contamination For The Medical Center, Beaver	Revision 9
Annex D -	Procedure for Transferring Radiation Casualties to the Radiation Emergency Response Program (UPMC Presbyterian)	Revision 8
Annex E -	Reserved	

Appendix C

Emergency Implementing Procedure

Listing

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EPP/IMPLEMENTING PROCEDURES

INSTRUCTIONS

EPP/I

1a	Recognition and Classification of Emergency Conditions
1b	Recognition and Classification of Emergency Conditions
2	Unusual Event
3	Alert
4	Site Area Emergency
5	General Emergency

IMPLEMENTING PROCEDURES

EPP/IP **I Series-Activation**

1.1	Notification
1.2	Communication and Dissemination of Information
1.3	Turnover Status Checklist - ED/ERM
1.4	Technical Support Center (TSC) Activation, Operation and Deactivation
1.5	Operations Support Center (OSC) Activation, Operation and Deactivation
1.6	Emergency Operations Facility (EOF) Activation, Operation and Deactivation
1.7	Emergency Response Organization (ERO) Teams

EPP/IP

2 Series-Assessment

2.1 Emergency Radiological Monitoring

2.2 Onsite Monitoring for Airborne Release

2.3 Offsite Monitoring for Airborne Release

2.4 Offsite Monitoring for Liquid Release

2.5 Emergency Environmental Monitoring

2.6 Environmental Assessment and Dose Projection Controlling Procedure

- 2.6.1 Dose Projection - Backup Methods
- 2.6.2 Dose Projections - ARERAS/MIDAS With FSAR Defaults
- 2.6.3 Dose Projection - ARERAS/MIDAS With Real-Time Inputs
- 2.6.4 Dose Projection - ARERAS/MIDAS With Manual Inputs
- 2.6.5 Alternate Meteorological Parameters
- 2.6.6 Dose Projection by Hand Calculation - Known Isotopic Release
- 2.6.7 Dose Assessment Based on Field Measurements
- 2.6.8 Dose Assessment Based on Environmental Measurements and Samples
- 2.6.9 Integrated Dose Assessment
- 2.6.10 Ground Contamination Assessment and Protective Actions
- 2.6.11 Dose Projection Miscellaneous Data
- 2.6.12 Dose Projection - ARERAS/MIDAS With Severe Accident Management

2.7 Liquid Release Estimate

- 2.7.1 Liquid Release Estimate - Computer Method

EPP/IP **3 Series-Onsite Protective Actions**

3.1 Evacuation

3.2 Site Assembly and Personnel Accountability

3.3 Emergency Contamination Control

3.4 Emergency Respiratory Protection

3.5 Traffic and Access Control

EPP/IP **4 Series-Offsite Protective Actions**

4.1 Offsite Protective Actions

EPP/IP **5 Series-Aid to Personnel**

5.1 Search and Rescue

5.2 Reserved

5.3 Emergency Exposure Criteria and Control

5.4 Emergency Personnel Monitoring

EPP/IP **6 Series-Re-Re-entry/Recovery**

6.1 Re-entry to Affected Areas--Criteria and Guidance

6.2 Termination of the Emergency and Recovery

EPP/IP **7 Series--Maintaining, Emergency Preparedness**

7.1 Emergency Equipment Inventory and Maintenance Procedure

7.2 Administration of Emergency Preparedness Plan, Drills and Exercises

7.3 Emergency Preparedness Testing

EPP/IP **8 Series-Fire Fighting**

8.1 Fires in Radiologically Controlled Areas

EPP/IP **9 Series-Nuclear Communications**

9.1 Emergency Public Information Emergency Response Organization Controlling Procedure

9.2 Reserved

9.3 Activation, Operation and Deactivation of the Emergency Public Information Organization Emergency Operations Facility (EOF)

9.4 Activation, Operation and Deactivation of the Joint Public Information Center (JPIC)

9.5 Activation, Operation and Deactivation of the Penn Power Customer Account Services Department

EPP/IP **10 Series-Corporate Response**

10.1 Emergency Response Organization Corporate Support

EPP/IP **Annexes**

Annex A - Westinghouse Emergency Response Plan

Annex B - DELETED

Annex C - Major Injury Involving Radioactive Contamination For The Medical Center, Beaver

Annex D - Procedures for Transferring Radiation Casualties to the Radiation Emergency Response Program (UPMC Presbyterian)

Annex E - Reserved

Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-2.2

ONSITE MONITORING FOR AIRBORNE RELEASE

Document Owner
Manager, Emergency Preparedness

Revision Number	13
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

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1.0 PURPOSE

1.1 This procedure provides instructions to monitoring team personnel for performing onsite radiological monitoring in the event of an airborne release of radioactive material. In-plant radiological surveys are performed in accordance with the Radiation Protection procedures, and at the direction of the Radiological Controls Coordinator.

2.0 SCOPE

2.1 Onsite plume monitoring can be requested by either the Radiological Controls Coordinator (RCC), EA & DP Coordinator, or the Emergency Director. If onsite monitoring is at the request of the RCC, these teams are directed by and communicate through the OSC. If onsite monitoring is at the request of the EA & DP Coordinator, the teams are directed by EA & DP and communicate thru those personnel at the TSC/EOF. Onsite plume monitoring teams may be directed to complete some or all of the surveys described herein. Monitoring teams need only perform the applicable steps of this procedure.

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 Beaver Valley Power Station Emergency Implementing Procedure EPP/IP 2.1, "Emergency Radiological Monitoring"

3.1.2 Beaver Valley Power Station Health Physics Procedures

3.1.3 Condition Reports

- 00-2202
- 02-03808

3.2 Commitments

3.2.1 BVPS Unit 1 Licensing Commitment 2.C (7) (CATS A970524P)

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 Attachment A, EPP Survey Log

4.1.2 Attachment D, Air Sample Record Card

4.2 Forms

4.2.1 None

5.0 RESPONSIBILITIES

5.1 Emergency Director

5.1.1 Is the only individual who may authorize exposure limit extensions in excess of 10CFR20.

5.2 OSC/TSC/EOF Personnel (if activated)

5.2.1 Will determine the general path of the plume and will provide monitoring team members with a briefing on specific instructions on areas to survey, types of surveys, and requirements for protective clothing and respirators.

5.3 Monitoring Team Members

5.3.1 Must remain alert to their own exposure and notify the OSC, TSC or EA&DP, and request relief if their cumulative exposure approaches a limit.

5.3.2 Will ensure appropriate monitoring equipment is operable and in calibration.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Precautions

6.1.1 Monitoring team members shall read their dosimeters (pocket or electronic alarming dosimeter) and report the readings to the OSC, TSC, or EA&DP, at least every 30 minutes or when dosimeters have increased by 100 millirem or a dose alarm has been received.

6.1.2 Exposures are controlled in accordance with EPP/IP 5.3, "Emergency Exposure Criteria and Control".

6.1.2.1 The use of potassium iodide (KI) is controlled in accordance with EPP/IP 3.4, "Emergency Respiratory Protection", and EPP/IP 5.3, "Emergency Exposure Criteria and Control".

6.1.3 Monitoring teams must remain alert to their own exposure and request relief if their cumulative exposure approaches a BVPS administrative control level. The Emergency Director is the only individual who may authorize exposure limit extensions in excess of 10 CFR 20.

6.1.4 All radio communications shall be done observing standard radio protocol (Attachment E).

6.2 Limitations

6.2.1 Vehicles

6.2.1.1 Designated vehicles shall be used for monitoring team purposes. Personal vehicles shall generally not be used, unless no suitable vehicles are available. Owners volunteering the use of their personal vehicles shall be alerted to the fact that most insurance companies will deny any claim for damage due to radioactive contamination. In addition, any personal vehicles shall have the same level of liability insurance as company vehicles.

6.2.1.2 All monitoring equipment shall be stowed in the vehicle such that it will not effect the safe operation of the vehicle.

6.2.1.3 Monitoring team vehicles shall be operated in compliance with all motor vehicle laws, including speed limits and the use of seat belts.

6.2.1.4 Monitoring team vehicles shall meet the following criteria:

6.2.1.4.1 Enclosed vehicle with sufficient room for the monitoring kit and fixed seating, with seat belts, for all team members, and,

6.2.1.4.2 Operable cigarette lighter receptacle, and,

6.2.1.4.3 At least 1/2 tank of gas, and

6.2.1.4.4 Current State motor vehicle inspection sticker (if applicable).

6.2.1.4.5 If personal vehicle, ensure insurance is in effect, per requirements of Step 6.2.1.1.

6.2.2 During siren activation, Field Monitoring Teams will be instructed not to activate radio transmitters.

7.0 PREREQUISITES

7.1 An airborne radioactive release has occurred.

8.0 PROCEDURE

8.1 Preliminary Actions

8.1.1 If not already in their possession, team members shall obtain and don personal dosimetry.

8.1.2 Prior to proceeding to perform surveys obtain a pre-job brief. Use three-way communication to ensure briefing is understood.

NOTE: The DC powered air-samplers require a 12-VDC source to operate. For this reason, a vehicle may be necessary, even though the distances involved are within walking distance.

8.1.3 If a vehicle is needed, obtain vehicle, vehicle location, and keys from TSC/OSC/EOF, as appropriate.

8.1.3.1 The vehicle must meet the requirements of Step 6.2.1.

8.1.3.2 If a company vehicle cannot be obtained, a volunteered vehicle may be used if it meets the requirements of Step 6.2.1.

8.1.4 Obtain appropriate monitoring equipment from the storage locations (Unit 1 Turbine Deck – 735' or Unit 2 SOSB West Stairwell – 730'). Equipment selected will depend on the type of survey assigned.

8.1.5 Perform operability checks on monitoring equipment before leaving the site, in accordance with instrument use procedure provided in the kit.

8.1.6 Obtain a Hi-band "Handie-Talkie" or a 60 Watt Monitoring Team Unit and check operation before leaving to start survey. Check radios away from the Control Room to minimize possible RF interference with instrument. Keep the radio operational at all times while performing surveys in order to maintain communications with the OSC /TSC/EOF.

8.1.7 If the survey will be performed outside of the security fence, leave the station via the Primary Access Facility (PAF). Retain your personal dosimetry while performing radiological monitoring.

8.1.8 Record gas tank level. Ensure that there is at least a 1/2 tank of gas and a cigarette lighter which is in proper working condition. Obtain another vehicle if necessary.

8.1.9 Install radio equipment on the vehicle if vehicle is being used.

8.1.10 If OSC /TSC/EOF so direct, don protective clothing and/or respirators prior to going to survey location.

8.1.11 Proceed to first survey location, as assigned by the OSC/TSC/EOF.

8.2 Continuing Actions

NOTE: Whenever possible, an ion-chamber instrument (such as the Eberline RO-series) should be used for making dose rate measurements. An instrument with an energy-compensated GM probe with the beta window closed (such as HP-270) is an acceptable substitute for gamma exposure measurements.

During an Unusual Event, monitoring team data shall be reported to the Radiological Controls Coordinator. For higher emergencies the TSC will be activated and plume monitoring data shall be reported to the EA & DP Coordinator in the TSC/EOF or OSC H.P. Coordinator, as appropriate. In-plant monitoring data shall be reported to the Radiological Controls Coordinator.

8.2.1 Periodically, read your pocket dosimeters, and have other personnel in the monitoring team read theirs. Report these readings at least every 30 minutes, or when accumulated dosimeter reading reaches 100 mrem.

8.2.2 Keep communication equipment on at all times.

8.2.3 Team members shall take appropriate actions to prevent the spread of detected contaminations to their skin, clothing, survey equipment and/or vehicle to the extent possible.

8.3 Moving Dose Rate

8.3.1 While enroute to the first assigned survey location, and at any other time while moving about the site, have the survey instrument turned on. Frequently observe the survey meter and report readings to the OSC/TSC/EOF, as appropriate. If a level of 1.0 millirem per hour (beta/gamma) or greater is observed, immediately notify the OSC/TSC/EOF. Note and record any readings significantly higher than the average and record these readings on the site map (Attachment C). If in a vehicle, extend the instrument probe through an open window (weather permitting).

8.4 Stationary Dose Rate Survey

8.4.1 Hold the instrument probe parallel to, facing and about 3 feet (waist height) above the ground.

8.4.2 Take a closed window (gamma) reading. Allow sufficient time for the meter response to stabilize. Document the reading, in mR/hr on the EPP Survey Log (Attachment A).

8.4.3 Take an open window (beta plus gamma) reading. Allow sufficient time for the meter response to stabilize. Document the reading, in mR/hr on the EPP Survey Log.

8.4.4 If there is no observable difference between the readings taken in 8.4.2 and 8.4.3 above, it should not be necessary to obtain an air sample at that particular location.

8.5 Airborne Activity

NOTE:	OSC/TSC personnel will determine which iodine sampling cartridge is appropriate. OSC/TSC personnel may also change the sample volume from 10 ft^3 to another volume consistent with radiological conditions.

NOTE:	If the open window dose rate measurement is about equal to the closed window reading, the survey location is not submerged in the plume and air samples will underestimate the plume concentration. Notify EA & DP if this is the case and request instructions.

NOTE:	If using a silver zeolite cartridge, verify that the shelf life has not expired.

8.5.1 Prepare sampler:

8.5.1.1 If not already present, mark a flow arrow on the side of the charcoal or silver zeolite cartridge.

8.5.1.1.1 OSC/TSC will direct which iodine sample media to use.

8.5.1.2 Place a clean particulate filter, and the iodine sample cartridge, in the sample holder and install on the sampler.

8.5.1.2.1 Air flow shall pass through the particulate paper first and then the cartridge in the direction of the arrow marked on the cartridge.

8.5.1.3 Position the sampler so that the intake is not in close proximity to potentially contaminated surfaces. Protect the filter paper and iodine cartridge from rain.

8.5.1.4 If the air sampler has an integral battery, proceed to Step 8.5.2

CAUTION:
- **In the steps to follow, use caution when connecting the air sampler power leads to the vehicle battery. Specifically:**
- **Shut car off, if not already done.**
- **Put on eye protection.**
- **Self check to determine positive and negative battery terminals.**
- **Avoid the fan, fan belt, and other potentially engine moving parts when positioning and connecting power leads.**
- **Avoid contact with battery acid corrosion residue.**
- **To minimize the potential for hydrogen explosion, do NOT connect or disconnect the sampler power leads while the sampler is turned on.**
- **Place the positive clamp of the air sampler on the positive battery terminal, the negative clamp on the air sampler on the negative battery terminal making sure that proper connections are made.**

8.5.1.5 Connect the sampler to the vehicle battery.

8.5.2 Obtain the sample:

8.5.2.1 Turn on the sampler

8.5.2.2 Record the sample start time on an Air Sample Record Card (Attachment D).

8.5.2.3 Read the flow rate, and determine the sampling time:

$$\frac{\text{Desired Volume } ft^3}{\text{Sample Flow Rate, cfm}} = \text{Sample Time, in minutes}$$

8.5.2.3.1 The desired sample volume is normally 10 ft^3, unless directed otherwise by OSC/TSC.

CAUTION:
- **Turn off air sampler prior to removing air sampler power leads.**
- **Disconnect negative clamp.**
- **Disconnect positive clamp.**

8.5.2.4 When the sample time has elapsed, stop the sampler and record the stop time on an Air Sample Record Card.

8.5.2.5 Complete other data requested on Air Sample Record Card. (Attachment D)

8.5.3 Using the E140N or equivalent with a HP210 probe, obtain a background reading.

8.5.3.1 Check that the RESPONSE control is set for the slowest response. If instrument has a speaker, ensure it is turned on.

8.5.3.2 Position the probe over the location where the sample media will be counted.

8.5.3.3 Evaluate background count rate.

8.5.3.3.1 If the background exceeds 30,000 cpm, notify OSC/TSC and request clearance to move to an area of lower background.

8.5.3.4 Note and record the background count rate in Column 7 (in cpm) on the EPP Survey Log.

8.5.4 Perform field screening of the sample media.

NOTE: Handle sample media in a manner that minimizes cross-contamination of sample media or the removal of activity from the sample media. As example:

Handle all sample media by the edges.

Place, do not slide, sample media into sample bags.

Do not shake sample bags, or squeeze sample bags together.

8.5.4.1 Remove the sample media from the sample holder.

8.5.4.2 Count the filter paper and the iodine cartridge separately.

8.5.4.2.1 Place the filter paper on a clean surface.

8.5.4.2.2 Hold the HP210 probe about 0.5 inches above the filter paper.

8.5.4.2.3 Record the gross instrument reading, in Column 5 (in cpm), on the EPP Survey Log.

8.5.4.2.4 Place the iodine sample cartridge on a clean surface, flow arrow pointing downward.

8.5.4.2.5 Hold the HP210 probe about 0.5 inches above the face of the sample cartridge.

8.5.4.2.6 Record the gross instrument reading, in Column 6 (in cpm), on the EPP Survey Log.

8.5.5 On the EPP Survey Log,

8.5.5.1 Record the sample volume in Column 8 (in cu ft),.

8.5.5.2 Circle the iodine sample type, if applicable, in Column 9.

8.5.5.3 Record the team member SRD readings in Columns 10 and 11. (in mR)

8.5.6 Place the samples in a plastic bag with the Air Sample Record Card. At the end of the survey return all samples, and EPP Survey Logs to the Station, or to another location designated by the OSC/TSC/EOF, for laboratory counting.

8.6 After all the required data have been collected at the first survey location, establish cell phone/radio contact with the OSC/TSC/EOF and report the following data from the log sheet.

8.6.1 Survey point and time.

8.6.2 Closed window gamma exposure rate.

8.6.3 Open window beta plus gamma exposure rate.

8.6.4 Air sample volume.

8.6.5 Rate meter background count rate.

8.6.6 Rate meter gross counts for particulate sample.

8.6.7 Rate meter gross counts for radioiodine cartridge & type of cartridge used.

8.6.8 Closed window gamma exposure rates observed between survey points.

8.7 After reporting the survey data from the last survey point, request further instructions from the OSC/TSC/EOF.

8.8 Proceed to the next survey point and repeat steps 8.2 through 8.7 for each survey location.

8.9 Final Conditions

8.9.1 All sample media are properly bagged, labeled and have been returned to the station for possible analysis.

8.9.2 All survey logs are complete, signed and returned to OSC/TSC, as appropriate.

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ATTACHMENT A
Page 1 of 1
EPP SURVEY LOG

Field Monitoring Team Log

Gas Tank	Team	Route	Date
E F	1 2 3 4___ ONSITE / OFFSITE	5 mi 10 mi n/a NW NE SE SW n/a	

SURVEY POINT	TIME	Dose Rate, mR/hr CLOSED WINDOW	Dose Rate, mR/hr OPEN WINDOW	E140N Field Screening, cpm Gross Particulate	E140N Field Screening, cpm Gross Iodine	E140N Field Screening, cpm Background	Sample Volume cu. ft.	Cart. Type	Team SRDs mR Member #1	Team SRDs mR Member #2	Remarks
1	2	3	4	5	6	7	8	9	10	11	
								Sz/c			
								Sz/c			
								Sz/c			
								Sz/c			
								Sz/c			
								Sz/c			
								Sz/c			
								Sz/c			
								Sz/c			
								Sz/c			
								Sz/c			

2-3-1f 3/90

Team Members (name and badge #)		Instrument Serial Numbers				Team Leader
#1	#2	B-G	E140N	Air Sampler	Other	Signature

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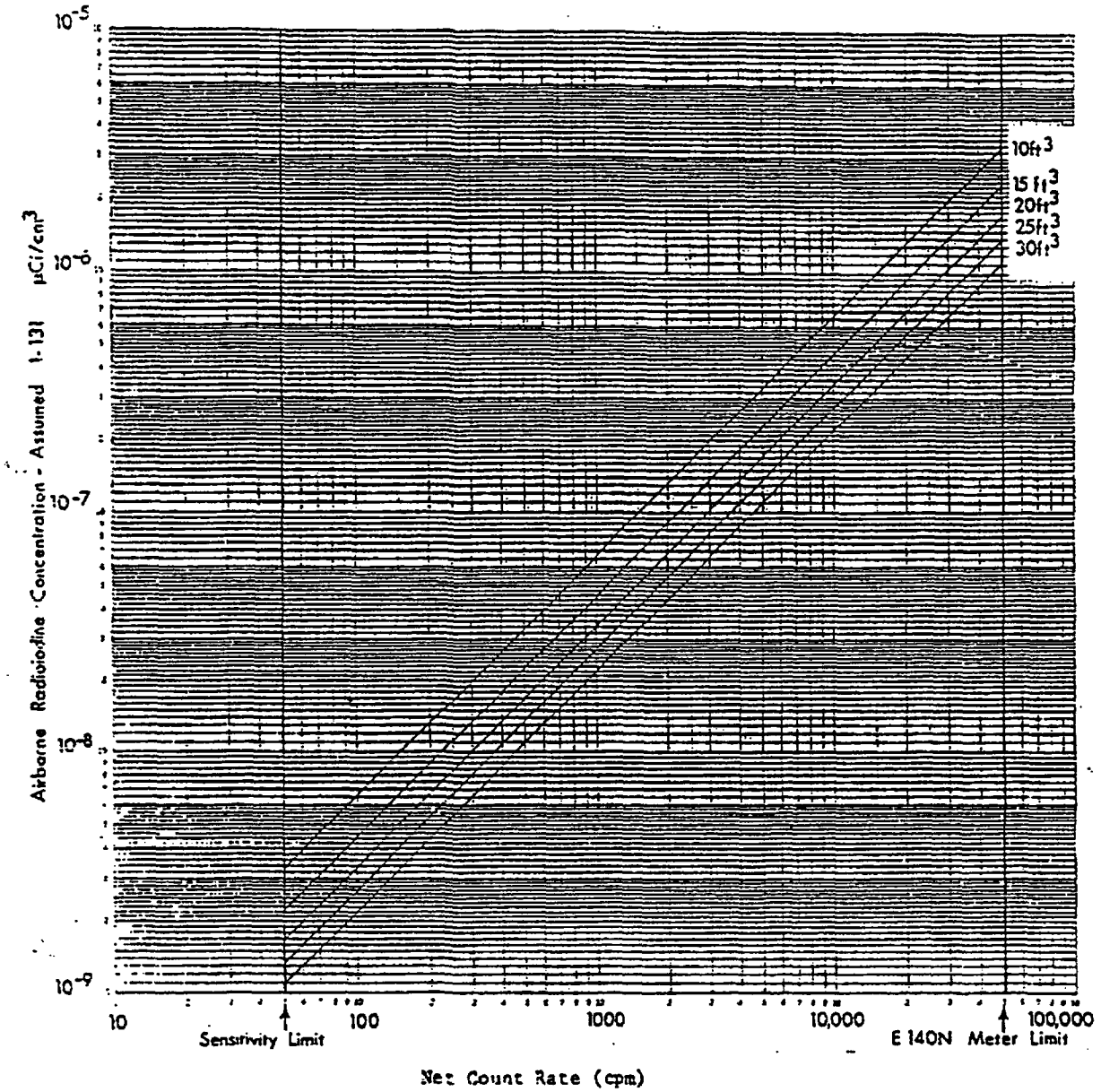
ATTACHMENT B
Page 1 of 1
AIR SAMPLING, FIELD EVALUATION AND SAMPLE ASSESSMENT

Airborne Radioiodine Concentration vs. Net Count Rate
(Charcoal or AgZe Cartridge)



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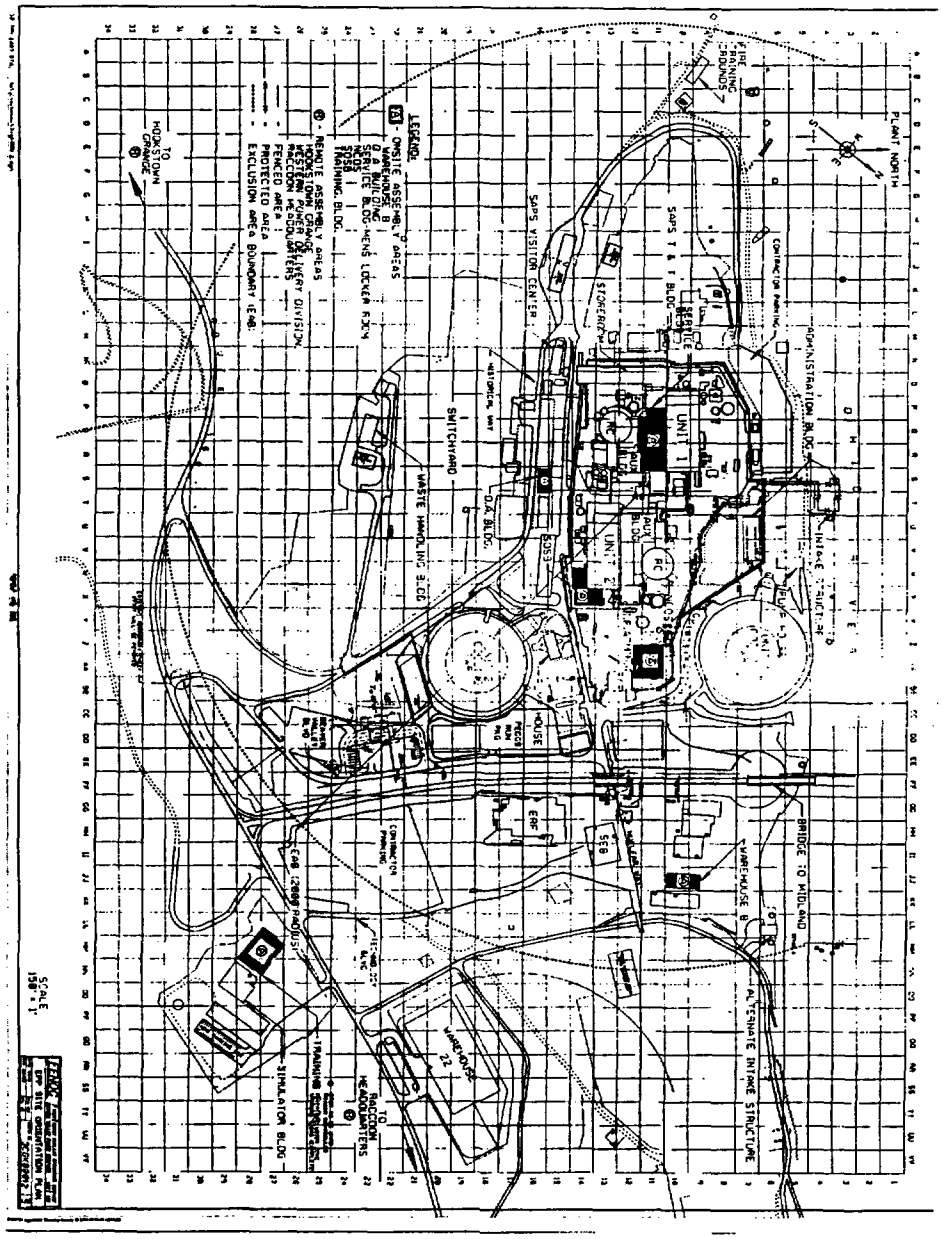
ATTACHMENT C
Page 1 of 1
BVPS SITE MAP



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ATTACHMENT D
Page 1 of 1
AIR SAMPLE RECORD CARD

AIR SAMPLE RECORD CARD RTL# A5.715EA

Air Sample locations: _____

Date: _____ Surveyor: _____

Sampler ID# _____

Sampler flow rate ft^3/min _____

Sample time: (10 ft^3 /Sampler Flow Rate cfm) _____

Sample Start Time: _____ Stop Time: _____

Sample Volume: _____

INTENTIONALLY BLANK

ATTACHMENT E
Page 1 of 2
RADIO PROTOCOL

Because radio communications is one way at a time (unlike a telephone), the use of a standard protocol is necessary to minimize confusion, speed operation and insure accurate transfer of information.

1) Begin a transmission with the name of the receiving party followed by the name of the transmitting party. For example, "Beaver Valley EA & DP this is Field Monitoring Team One, over". Wait for the receiving party to acknowledge before relaying data. During a series of exchanges, terminate each transmission with "over" to indicate to the other person that they may transmit. End the final transmission of a series with an appropriate termination phrase. For example, "Monitoring Team One out".

2) Controlling group (EA & DP, OSC) communicators must avoid general statements such as, "Monitoring teams report your dosimeter readings". This can result in confusion due to simultaneous transmissions by two or more teams. Direct such inquiries to each team in sequence. The only exception to this is if no response is needed from the individual teams.

3) Certain letters of the alphabet can be confused when said (V and B, P and B, as examples). When spelling words for clarity or giving alphabetic designators, use the standard International Phonetic Alphabet shown in Step 7. Monitoring locations D.2.1 becomes "Delta point two point one". For a word like bat., say "I spell-bravo, alpha, tango", giving the phonetics slowly.

4) Give numerical information as digits rather than reading it as a number. 2432 becomes two, four, three, two rather than two thousand four hundred thirty two. 35.7 becomes three, five, point, seven rather than thirty five and seven tenths.

5) Report data as specified in the Field Monitoring EPP/IPs - that is by block location on the forms and without units such as mR/hr., cubic ft., or cpm. If units must be given, say them out - millirem per hour, counts per minute, etc. Avoid jargon and abbreviations.

6) Insure correct data transferal by obtaining repeat backs of all data sent and provide repeat back or acknowledgment of messages received (Three-way Communications).

ATTACHMENT E
Page 2 of 2
RADIO PROTOCOL

7) Avoid exclamatory or alarming statements. When you press the microphone button, you are making a public announcement because of the many scanners that can receive business band communications.

INTERNATIONAL PHONETIC ALPHABET

A-ALPHA	J-JULIETT	S-SIERRA
B-BRAVO	K-KILO	T-TANGO
C-CHARLIE	L-LIMA	U-UNIFORM
D-DELTA	M-MIKE	V-VICTOR
E-ECHO	N-NOVEMBER	W-WHISKEY
F-FOXTROT	O-OSCAR	X-XRAY
G-GULF	P-PAPA	Y-YANKEE
H-HOTEL	Q-QUEBEC	Z-ZULU
I-INDIA	R-ROMEO	

Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-2.3

OFFSITE MONITORING FOR AIRBORNE RELEASE

Document Owner
Manager, Emergency Preparedness

Revision Number	14
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

CONTROLLED
BVPS UNIT 3

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A5.715EB

1.0 PURPOSE

1.1 This procedure provides instructions to the field monitoring teams for performing offsite field monitoring in the event of a real or potential airborne release of radioactivity.

2.0 SCOPE

2.1 None

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 "Airborne Radioactivity Sampling" HPM RP 7.3

3.1.2 Portable Air Samplers - Model H-809C, H-809V, H-809B2 (RADECO). HPM RIP-6.6

3.1.3 Condition Reports

- 00-2202
- 02-03520
- 02-03436

3.2 Commitments

3.2.1 None

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 The following attachments become QA records when completed:

4.1.1.1 Attachment A, Field Monitoring Worksheet

4.1.1.2 Attachment F, Air Sample Record Card

4.2 Forms

4.2.1 None

5.0 RESPONSIBILITIES

5.1 This procedure is to be performed by the designated offsite monitoring teams.

6.0 PRECAUTIONS AND LIMITATIONS

A5.715EB

6.1 Precautions

6.1.1 Designated vehicles shall be used for monitoring team purposes. Personal vehicles shall generally not be used, unless no suitable vehicles are available. Owners volunteering the use of their personal vehicles shall be alerted to the fact that most insurance companies will deny any claim for damage due to radioactive contamination. In addition, any personal vehicles shall have the same level of liability insurance as company vehicles.

6.1.2 All monitoring equipment shall be stowed in the vehicle such that it will not effect the safe operation of the vehicle.

6.1.3 Monitoring team vehicles shall be operated in compliance with all motor vehicle laws, including speed limits and the use of seat belts.

6.1.4 During siren activation, field monitoring teams will be instructed not to activate radio transmitters.

6.2 Limitations

6.2.1 If any of the items can not be met, request assistance from the TSC/EOF (724-682-5643, 5644) or the Operations Support Center (724-682-5391).

6.2.1.1 Inventoried monitoring team kit, and,

6.2.1.2 Hi-band Communications Radio and antenna, and/or,

6.2.1.3 Cell phone, and,

6.2.1.4 Personal dosimetry, and,

6.2.1.5 Ensure PL Switch located in the Control Room is in proper position

6.2.1.6 BVPS vehicle, or another vehicle, meeting the following criteria:

6.2.1.6.1 Enclosed vehicle with sufficient room for the monitoring kit and fixed seating, with seat belts, for all team members, and,

6.2.1.6.2 Operable cigarette lighter receptacle, and,

6.2.1.6.3 At least 1/2 tank of gas, and,

6.2.1.6.4 Current State motor vehicle inspection sticker (if applicable).

6.2.1.6.5 If personal vehicle, ensure insurance is in effect, per requirements of Step 6.1.1.

7.0 PREREQUISITES

A5.715EB

7.1 The offsite monitoring teams are organized and directed to perform offsite field monitoring.

8.0 PROCEDURE

8.1 Preliminary Actions

NOTE: These preliminary steps are written with the assumption that the offsite monitoring teams will be dispatched from the Operations Support Center (OSC) or another inplant location, at the request of EA & DP personnel at the TSC/EOF.

If the TSC/EOF is not activated, all communications specified for EA & DP shall be directed to the Control Room.

If the team(s) are dispatched from an offsite location, (e.g., ERF, JPIC, home, etc.), the team is authorized to deviate from the preliminary steps provided below, as necessary, PROVIDED that the PREREQUISITE's listed above are met.

8.1.1 Prior to leaving the OSC or the station, obtain the following dosimetry information on team members.

Name	Badge No.	Current TLD+Electronic Dosimeter (mrem)	Expos Limit	Current TLD+Electronic Dosimeter (mrem)
Team Leader:				
Driver:				
Addit'l:				

8.1.1.1 If any of these data not readily available, a reasonable estimate should be entered until data is available.

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8.1.2 If not already in their possession, team members shall obtain and don personal dosimetry.

NOTE:	Team members will retain their dosimetry when they exit the station, and use this dosimetry while performing offsite monitoring. If dispatched from other locations, (e.g., ERF, home, etc.), team members shall use dosimetry provided in monitoring kits.

NOTE:	Check with OSC for any precautions to transit from OSC to ERF, (i.e., dose rates).

8.1.3 Exit the station via the Primary Access Facility and proceed to the ERF.

NOTE:	An extra set of vehicle keys are maintained in OSC Key Cabinet if ERF can not be accessed.

8.1.4 Obtain vehicle key and keys for Field Monitoring Team (FMT) kits from EA/DP in ERF.

8.1.4.1 Obtain FMT kits.

8.1.5 Record the following information:

8.1.5.1 Procedure Start Date: _____

8.1.5.2 Procedure Start Time: _____

8.1.6 Report to EA/DP for a briefing and record the following information in the spaces provided below. IF the TSC is not yet activated, THEN obtain this information from the OSC or the Control Room.

8.1.6.1 Team Identification: _____

8.1.6.2 Emergency Classification: _____

8.1.6.3 Has Release Started? ___ If so, when? _____

8.1.6.4 Plume Type: __PUFF __GROUND LVL __ELEVATED

8.1.6.5 Current 35' Wind Speed: _____(mph)

8.1.6.6 Current 150' Wind Direction: _____(deg)

8.1.6.7 Initial Survey Route Assignment: **A5.715EB**

__NW__NE__SE__SW

- OR -

Initial Survey Location: _____

8.1.6.8 Desired Surveys at Initial Location: _____

_____

8.1.6.9 Air Sampling: ___ Silver Zeolite

___ Charcoal ___ None

8.1.6.10 Public Protective Actions Implemented: _____

_____

8.1.6.11 Special Precautions or Instructions: _____

_____

_____

8.1.7 Locate one of the vehicles for the keys obtained. This vehicle shall meet the requirements of Step 6.2.1.6.

8.1.7.1 IF no vehicles are readily available, THEN request the assistance of the OSC or the EA & DP in obtaining a suitable vehicle.

8.1.7.2 IF a vehicle cannot be obtained, THEN a volunteered personal vehicle may be used if it meets the requirements of Steps 6.1 and 6.2.1.6.

8.1.8 Obtain monitoring equipment and prepare vehicle as follows:

8.1.8.1 Obtain a cell phone and phone number to call from EA/DP.

8.1.8.1.1 Verify that EA/DP has cell phone number for each offsite FMT.

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NOTE:	EA/DP will designate which communications device is the primary (i.e., cell phone or radio).

8.1.8.2 Obtain an airborne radiological monitoring team kit from the emergency cabinets in the ERF.

NOTE:	Complete inventory of kit only needed if seal is broken.

8.1.8.3 Perform operability checks on monitoring equipment, before leaving the ERF, in accordance with instrument use procedures provided in kit.

8.1.8.3.1 IF any piece of equipment fails its operability check, THEN obtain a calibrated replacement from other kits or from other station sources.

8.1.8.4 Obtain a 60-watt monitoring team radio unit with magnetic mount antenna from the emergency cabinets in the ERF.

8.1.8.5 IF the OSC has explicitly directed the use of protective clothing and/or respirators, THEN this equipment shall be donned prior to leaving the station.

8.1.8.6 Remove the survey maps, survey logs, procedures, the beta-gamma survey instrument, radios, and other equipment that may be needed enroute, from the monitoring kits and stow in a location accessible to the team leader while enroute. Remove and don PIC, zero as necessary.

8.1.8.7 Load monitoring team equipment into the vehicle so that it is safely restrained and will not affect the operation of the vehicle.

8.1.8.8 Install radio equipment on the vehicle.

8.1.8.9 Prior to leaving site perform a cell phone and/or radio check with EA & DP, to verify the operability of the communications equipment.

8.1.8.9.1 IF radio equipment and/or cell phone is inoperable, THEN obtain replacement equipment.

8.1.9 Provide the following information to the EA & DP personnel:

8.1.9.1 Name and badge numbers of team members.

8.1.9.2 Current pocket dosimeter reading and exposure limits.

8.1.10 Obtain a copy of the Field Monitoring Team Log (Form 2.3-1), and complete the following entries in the spaces provided:

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8.1.10.1 GAS TANK LEVEL -- indicate gas tank level by drawing a vertical line across the scale.

8.1.10.2 TEAM -- indicate the team designation by circling one of the numbers and circling "OFFSITE".

8.1.10.3 ROUTE -- if so assigned, indicate the assigned survey route by circling one of the distances and one of the quadrants. Otherwise, circle "N/A".

8.1.10.4 DATE -- Enter today's date.

8.1.10.5 TEAM MEMBERS -- print the name and badge number of team members.

8.1.10.6 INSTRUMENT SERIAL NUMBERS -- enter the serial number for survey instruments.

8.1.11 Proceed to the first survey location, when directed.

8.1.12 Perform requested surveys in accordance with the remaining steps of this procedure.

8.1.12.1 IF the TSC/EOF is not yet activated, and the OSC or Control Room has not specified a first survey location, THEN the monitoring team shall proceed as described in Step 8.3

8.2 Continuing Actions

NOTE:	The instructions in this section are applicable during all offsite monitoring team activities, and shall be performed in conjunction with other steps as appropriate.

8.2.1 Team members shall periodically read their pocket dosimeter and report their cumulative radiation reading to the TSC/EOF no less than every 30 minutes or as directed.

8.2.2 Team members shall take appropriate actions to prevent the spread of detected contamination to their skin, clothing, survey equipment, and/or vehicle to the extent possible.

8.2.3 Team members shall not eat, drink, or smoke in areas with greater than background contamination or airborne activity.

NOTE:	Periodically check communication with EA/DP. The cell phone may disconnect if you pass through a "weak signal" area.

8.2.4 Keep the communications equipment turned on at all times while away from the station.

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8.2.5 All communications between the monitoring teams and EA & DP shall follow standard radio protocol (Attachment G).

8.2.5.1 Identify survey locations using predesignated survey locations to the extent possible.

8.2.5.2 All survey data reports to EA & DP shall use the following format:

NOTE: To facilitate the transfer of data, the Field Monitoring Team Log used by the monitoring team, and the Field Monitoring Worksheet used by EA & DP has similarly labeled blanks. It is only necessary to transfer the variable information. Fixed information such as Column headings and units need not be relayed. This protocol will minimize communication errors.

8.2.5.2.1 Report all survey data on the worksheet in relation to its block number, rather than its parameter name. For example, "...Block 1 is A point one point one; Block 5 is four zero zero zero; Block 3 is zero point five;....".

8.2.5.2.2 Do not report units such as mR/hr, ft3.

8.2.6 If members of the public or the news media solicit information from the monitoring team, the team shall:

8.2.6.1 Be courteous.

8.2.6.2 Explain that the survey is a precautionary measure, and, that the survey data are raw data that have not been evaluated, and, that significant final data will be reported to State and local authorities.

8.2.6.3 Direct additional public questions to the local county information line. The telephone number is provided in the emergency response section (blue pages) of the telephone directory.

8.2.6.4 Direct additional news media questions to the Chief Company Spokesperson at 412-604-4923.

8.2.7 Remain alert to the status of consumable supplies, such as vehicle gas, sample media and survey meter batteries, and notify EA & DP of any pending shortfalls.

8.2.8 In the event of a monitoring team shift change associated with a longer term emergency response, the off-going monitoring team will complete the FINAL CONDITIONS of this procedure. The oncoming team will initiate a new copy of this procedure, re-performing or verifying the preliminary steps above, as directed by EA & DP or the OSC.

8.3 Default Survey **A5.715EB**

NOTE:	The steps in this section are performed whenever the OSC or the Control Room does not provide an initial survey assignment. This may occur during a quickly breaking incident prior to activation of the OSC or TSC/EOF. Generally, by the time that the team has completed the preliminary steps of this procedure, the TSC/EOF will have been activated.

8.3.1 Locate the survey map and the survey point index for the assigned map quadrant. (Attachments B through E)

8.3.1.1 IF the quadrant was not assigned, THEN select the quadrant into which the wind is blowing:

Wind Direction	Quadrant	Attachment
0 – 90	SW	C
90 – 180	NW	B
180 – 270	NE	E
270 – 360	SE	D

8.3.2 IF weather permits, THEN perform a moving dose rate survey (Step 4.0) while enroute to the first survey location.

8.3.2.1 IF there is a BVPS monitoring team at that location, THEN proceed to the next location on the survey route.

8.3.2.2 The first survey location is indicated on each quadrant attachment (Attachments B through E).

8.3.3 Perform a stationary dose rate survey (Step 8.5) at this location.

8.3.4 IF the open window dose rate is greater than the closed window dose rate, THEN obtain a 10 ft3 air sample and perform field screening on the sample media as described in Step 8.6.

8.3.4.1 Use a silver zeolite cartridge for iodine sampling. Ensure cartridge shelf life is not expired.

8.3.5 Record all data on the Field Monitoring Team Log.

8.3.6 Report the data to the OSC or Control Room.

8.3.7 Proceed to the next survey point on the route.

8.3.8 Repeat Steps 8.3.2 to 8.3.7 until directed otherwise.

8.4 Moving Dose Rate Survey **A5.715EB**

NOTE:	Moving dose rate surveys are performed to locate the boundaries of the plume, and/or, to locate plume centerline. The steps in this section are performed when in enroute to the first survey location, while enroute between survey locations, and as directed by EA & DP.

NOTE:	Whenever possible an ion chamber instrument, such as the Eberline RO- series, should be used for making dose rate measurements. However, an instrument with an energy-compensated GM probe, such as the Eberline HP-270, is an acceptable substitute for gamma exposure measurements.

NOTE:	Team SRD readings should be reported to EA & DP approximately every 30 minutes or, in higher dose rate areas, every 100 mrem.

8.4.1 Select a beta-gamma instrument.

8.4.2 Close the beta window.

8.4.3 Open the vehicle window and hold the instrument at the opening.

8.4.4 Travel along the designated survey route at a low rate of speed (within speed limits, no greater than 30 mph).

8.4.5 Monitor instrument read-out and note changes in instrument response.

8.4.5.1 Report the first increase (>1.0 mrem/hr) in ambient dose rate above background to EA & DP and log the location on the Field Monitoring Team Log.

8.4.5.2 IF the ambient dose rate increases to 100 mR/hr, THEN:

8.4.5.2.1 Immediately move away to an area of lower dose rate.

8.4.5.2.2 Notify EA & DP and request instructions.

8.4.5.3 If the survey is being performed to locate the leading and trailing edges of the plume also report significant decreases in ambient dose rates.

8.5 Stationary Dose Rate Survey **A5.715EB**

NOTE: Whenever possible an ion chamber instrument, such as the Eberline RO- series, should be used for making dose rate measurements. However, an instrument with an energy-compensated GM probe, such as the Eberline HP-270, is an acceptable substitute for gamma exposure measurements.

CAUTION: At each survey location:

- **Shut vehicle off.**
- **Place in park and set emergency break.**
- **Choke wheels or turn wheels into object, (i.e., curb, to keep from drifting).**
- **Activate flashers.**
- **Put on reflective vest.**

8.5.1 Take a closed window reading.

8.5.1.1 Check the beta window closed.

8.5.1.2 Hold the instrument, or instrument probe parallel to, facing, and about 3 feet (e.g., waist height) above the ground.

8.5.1.3 Allow sufficient time for the instrument reading to stabilize.

8.5.1.4 Record reading, in Column 3 (in mR/hr), on the Field Monitoring Team Log.

8.5.2 Take an open window reading.

8.5.2.1 Open the beta window.

8.5.2.2 Hold the instrument, or instrument probe parallel to, facing, and about 3 feet (e.g., waist height) above the ground. Allow sufficient time for the instrument reading to stabilize. Note the reading.

8.5.2.3 Rotate the instrument beta window to face upwards. Allow sufficient time for the instrument reading to stabilize. Note the reading.

8.5.2.4 Record the higher reading, Column 4 (in mR/hr), on the Field Monitoring Team Log.

8.5.2.5 Vary the height of the instrument, or probe, between waist height and 3 inches above the ground.

8.5.2.5.1 IF the open window reading is higher, closer to the ground, THEN record and label the 3 inch reading in the REMARKS Column.

8.5.3 IF an air sample was requested for this location, THEN proceed to Step 8.6.

8.5.4 When all measurements required at this location have been obtained, report the data (blocks 1 - 11) to EA & DP. Await further instructions.

8.6 Airborne Activity Sampling

NOTE:	If the open window dose rate measurement is about equal to the closed window reading, the survey location is not submerged in the plume and air samples will underestimate the plume concentration. Notify EA & DP if this is the case and request instructions.

8.6.1 Prepare sampler:

8.6.1.1 If not already present, mark a flow arrow on the side of the charcoal or silver zeolite cartridge.

8.6.1.1.1 EA & DP will direct which iodine sample media to use.

8.6.1.2 Place a clean particulate filter, and the iodine sample cartridge, in the sample holder and install on the sampler.

8.6.1.2.1 Air flow shall pass through the particulate paper first and then the cartridge in the direction of the arrow marked on the cartridge.

8.6.1.2.2 IF EA & DP does NOT request an iodine sample, THEN use a single charcoal cartridge as a place-holder. Re-use this cartridge for all subsequent particulate sample.

8.6.1.3 Position the sampler so that the intake is not in close proximity to potentially contaminated surfaces. Protect the filter paper and iodine cartridge from rain.

8.6.1.4 IF the air sampler has an integral battery, THEN proceed to Step 8.6.2.

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CAUTION: In the steps to follow, use caution when connecting the air sampler power leads to the vehicle battery. Specifically:

- **Shut car off, if not already done.**
- **Put on eye protection.**
- **Self check to determine positive and negative battery terminals.**
- **Avoid the fan, fan belt, and other potentially engine moving parts when positioning and connecting power leads.**
- **Avoid contact with battery acid corrosion residue.**
- **To minimize the potential for hydrogen explosion, do NOT connect or disconnect the sampler power leads while the sampler is turned on.**
- **Place the positive clamp of the air sampler on the positive battery terminal, the negative clamp on the air sampler on the negative battery terminal making sure that proper connections are made.**

8.6.1.5 Connect the sampler to the vehicle battery.

8.6.2 Obtain the sample:

8.6.2.1 Turn on the sampler

8.6.2.2 Record the sample start time on an Air Sample Record Card.

8.6.2.3 Read the flow rate, and determine the sampling time:

$$\frac{\text{Desired Volume } ft^3}{\text{Sample Flow Rate, cfm}} = \text{Sample Time, in minutes}$$

8.6.2.3.1 The desired sample volume is 10 ft3, unless directed otherwise by EA & DP personnel.

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CAUTION:

- **Turn off air sampler prior to removing air sampler power leads.**
- **Disconnect negative clamp.**
- **Disconnect positive clamp.**

8.6.2.4 When the sample time has elapsed, stop the sampler and record the stop time on an Air Sample Record Card.

8.6.2.5 Complete other data requested on Air Sample Record Card. (Attachment F)

8.6.3 Using the E140N with a HP210 probe, obtain a background reading.

8.6.3.1 Check that the RESPONSE control is set for the slowest response. If instrument has a speaker, ensure it is turned on.

8.6.3.2 Position the probe over the location where the sample media will be counted.

8.6.3.3 Evaluate background count rate.

8.6.3.3.1 IF the background exceeds 30,000 cpm, THEN notify EA & DP and request clearance to move to an area of lower background.

8.6.3.4 Note and record the background count rate in Column 7 (in cpm) on the Field Monitoring Team Log.

8.6.4 Perform field screening of the sample media.

NOTE: Handle sample media in a manner that minimizes cross-contamination of sample media or the removal of activity from the sample media. As example:

- Handle all sample media by the edges.
- Place, do not slide, sample media into sample bags.
- Do not shake sample bags, or squeeze sample bags together.

8.6.4.1 Remove the sample media from the sample holder.

8.6.4.2 Count the filter paper and the iodine cartridge separately.

8.6.4.2.1 Place the filter paper on a clean surface.

8.6.4.2.2 Hold the HP210 probe about 0.5 inches above the filter paper. **A5.715EB**

8.6.4.2.3 Record the gross instrument reading, in Column 5 (in cpm), on the Field Monitoring Team Log.

8.6.4.2.4 Place the iodine sample cartridge on a clean surface, flow arrow pointing downward.

8.6.4.2.5 Hold the HP210 probe about 0.5 inches above the face of the sample cartridge.

8.6.4.2.6 Record the gross instrument reading, in Column 6 (in cpm), on the Field Monitoring Team Log.

8.6.5 On the Field Monitoring Team Log,

8.6.5.1 Record the sample volume in Column 8 (in cu ft),.

8.6.5.2 Circle the iodine sample type, if applicable, in Column 9.

8.6.5.3 Record the team member SRD readings in Columns 10 and 11. (in mR)

8.6.6 When all measurements required at this location have been obtained, report the data (blocks 1 - 11) to EA & DP. Await further instructions.

8.7 Final Conditions

8.7.1 All sample media are properly bagged, labeled, and have been returned to the station for possible laboratory analysis.

8.7.2 All survey logs are complete, and signed by the team leader.

8.7.3 Survey logs shall be attached to this procedure, and the procedure forwarded to the EA & DP Coordinator in the TSC/EOF, and then upon termination of the emergency, to the Communications and Records Coordinator.

8.7.4 If the team has been directed to turnover to a relief team, the oncoming monitoring team has been briefed by the off-going team regarding the status of monitoring equipment, supplies, the vehicle, and other pertinent information.

8.7.5 If the team has been directed to return to the station without turnover, all monitoring equipment, including the vehicle, has been returned to the original storage location, or another location designated by EA & DP.

8.7.6 Procedure Complete **A5.715EB**

8.7.6.1 Date/Time: _____

8.7.6.2 Team Leader: _____

ATTACHMENT A
Page 1 of 2
WORKSHEET 2.3-1, FIELD MONITORING TEAM LOG

A5.715EC

Field Monitoring Team Log

Gas Tank	Team	Route	Date
E ¼ F	1 2 3 4 ___ ONSITE / OFFSITE	5 mi 10 mi n/a NW NE SE SW n/a	

Survey Point	Time	Dose Rate, mR/hr CLOSED WINDOW	Dose Rate, mR/hr OPEN WINDOW	E140N Field Screening, cpm Gross	Gross Corrected	Background	Sample Vol.	Cart. Type	Team SRD, mR Member #1	Team SRD, mR Member #2	Remarks
1	2	3	4	5	6	7	8	9	10	11	
								a/b			
								a/c			
								a/b			
								a/b			
								a/b			
								a/c			
								a/c			
								a/b			
								a/c			
								a/c			
								a/c			
								a/c			
								a/c			

EXAMPLE

2.3-1F 8/90

Team Members (name & badge #)		Instrument Serial Numbers				Team Leader
#1	#2	B-G	E140N	Air Sampler	Other	Signature

ATTACHMENT A
Page 2 of 2
WORKSHEET 2.3-1, FIELD MONITORING TEAM LOG

A5.715EC

INSTRUCTIONS

One Time Entries

a. GAS TANK -- Enter the gas tank level at the start of monitoring.

b. TEAM -- Circle the appropriate team designation(s).

c. ROUTE -- If assigned a specific route, circle the distance and quadrant designations. IF NOT, circle "N/A".

d. DATE -- Enter the current date.

e. TEAM MEMBERS -- Enter the name and badge number of the team members. Member #1 should be the team leader.

f. INSTRUMENT SERIAL NUMBERS -- Enter the serial numbers of the instruments that will be used.

g. TEAM LEADER -- The team leader signs the form when the form is complete.

For Each Survey Point

1. SURVEY POINT -- Enter the survey point designation, (e.g., A.1.1. If a non-standard survey location, enter an asterisk in Column 1 and put a description of the location in the remarks section.

2. TIME -- Enter the time that the measurements were taken. For air samples, use the start time of the sampling period.

3,4 DOSE RATE -- Enter the closed window B-G dose rate in mR/hr and the open window B-G dose rate in mR/hr in Columns 3 and 4 respectively.

5,6,7 FIELD SCREENING -- Enter the gross count rates for particulate and iodine samples, and the background count rate, in cpm, in Columns 5, 6 and 7 as appropriate.

8. SAMPLE VOLUME -- Enter the air sample volume in Column 8.

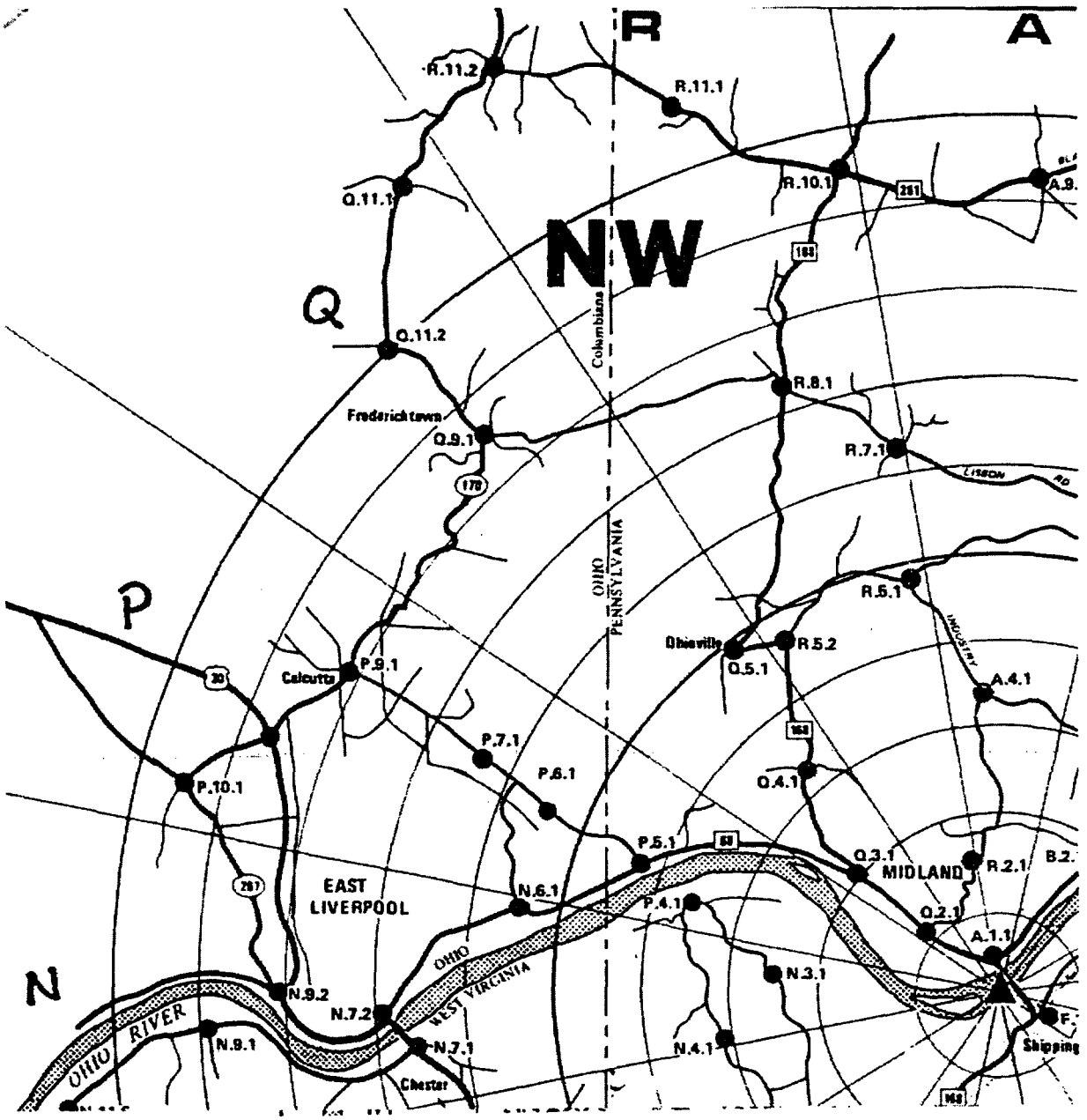
9. CARTRIDGE TYPE -- Circle the iodine sample media type in Column 9.

10,11 TEAM SRD, mR/hr -- Enter the team members self-reading dosimeter dose in Columns 10 and 11. Use Column 10 for team member #1 identified at the bottom of the log and Column 11 for team member #2.

12. Enter any remarks necessary in the Remarks Column.

NOTE: When reporting these data back to EA & DP, report the data by Column number and value. For example: "...Column 1 A point 1 point 1, Column 2 fourteen hundred, Column 3 zero point zero one, Column 2 zero point zero three, Column 5 none..." Use "none" to report any Columns for which data were not collected.

ATTACHMENT B
Page 1 of 3
NW OFFSITE SURVEY MAP



ATTACHMENT B
Page 2 of 3
NW OFFSITE SURVEY MAP

NORTHWEST 5 MILE ROUTE

POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
Q.3.1	Intersection of Rt's 168 & 68	Good
P.5.1	Intersection of Rt. 68 and Calcutta-Smith Ferry Rd.	Good
P.6.1	Top of Hill Calcutta-Smith Ferry Rd. and Fisher Ave.	Good
N.6.1	Intersection of Parkway Rd. & Ohio Rt. 39	Good

NORTHWEST 10 MILE ROUTE

POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
A.1.1	Rt. 168 Bridge on Midland side of Ohio River	Good
Q.3.1	Intersection of Rt. 168 & 68	Good
Q.4.1	Rt. 168 & Eastwood Dr.	Good
Q.5.1	Ohioville Vol. Fire Dept. off Rt. 168	Good
R.8.1	Intersection of Rt. 168 & Lisbon Rd.	Good
R.10.1	Intersection of Rt's 251 & 168	Fair
R.11.1	Intersection of Rt. 251 & State Gamelands Rd.	Poor
R.11.2	Intersection of Rt's 170 & 251	Poor
Q.11.1	Intersection of Rt. 170 & Clarkson Pancake Rd.	Good
Q.11.2	Intersection of Rt. 170 & Frederickstown Clarkson Rd.	Good
Q.9.1	Intersection of Rt. 170 & Frederickstown Rd.	Good
P.9.1	Intersection of Rt. 170 & Calcutta-Smith Ferry Rd.	Good
P.10.1	Intersection of Rt. 267 & T928 (Irish-Ridge Rd)	Good
N.9.2	Intersection of Rt's 267 & 39/7 (School)	Fair
N.7.2	Emergency stopping area before Ohio/W.Va. Bridge Rt. 30	Good
P.5.1	Intersection of Rt. 68 & Calcutta-Smith Ferry Rd.	Good

ATTACHMENT B
Page 3 of 3
NW OFFSITE SURVEY MAP

NORTHWEST ROUTE

POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
A.1.1	Rt. 168 Bridge on Midland Side of Ohio River	Good
Q.3.1	Intersection of Rt. 168 & 68	Good
P.6.1	Top of Hill Calcutta-Smith Ferry Rd. and Fisher Ave.	Good
N.6.1	Intersection of Parkway Road & Ohio Rt. 39	Poor
Q.4.1	Entrance to Meadowbrook Estates, Rt. 168 & Eastwood Dr.	Good
Q.5.2	Intersection of Tuscarawas Rd. and Rte. 168	Good
Q.5.1	Ohioville Vol. Fire Dept. off Rt. 168	Good
R.8.1	Intersection of Rt. 168 & Lisbon Rd.	Good
R.10.1	Intersection of Rt's 251 & 168	Fair
R.11.1	Intersection of Rt. 251 & State Gamelands Rd.	Poor
R.11.2	Intersection of Rt's 170 & 154	Poor
Q.11.1	Intersection of Rt. 170 & Clarkson Pancake Rd.	Good
Q.11.2	Intersection of Rt. 170 & Fredrickstown Clarkson Rd.	Good
Q.9.1	Intersection of Rt. 170 & Frederickstown Rd.	Poor
P.9.1	Intersection of Rt. 170 & Calcutta-Smith Ferry Rd.	Good
P.10.1	Intersection of Rt. 267 & T928 (Irish-Ridge Rd)	Good
N.9.2	Intersection of Rt's 267 & 39/7 (School)	Good
N.7.2	Emergency stopping area before Ohio/W.Va. Bridge Rt. 30	Good
P.5.1	Intersection of Rt. 68 & Calcutta-Smith Ferry Rd.	Good
P.6.1	Top of hill Calcutta-Smith Ferry Rd. and Fisher Ave.	Good
P.7.1	Calcutta Church (Calcutta-Smith Ferry Rd.)	Good

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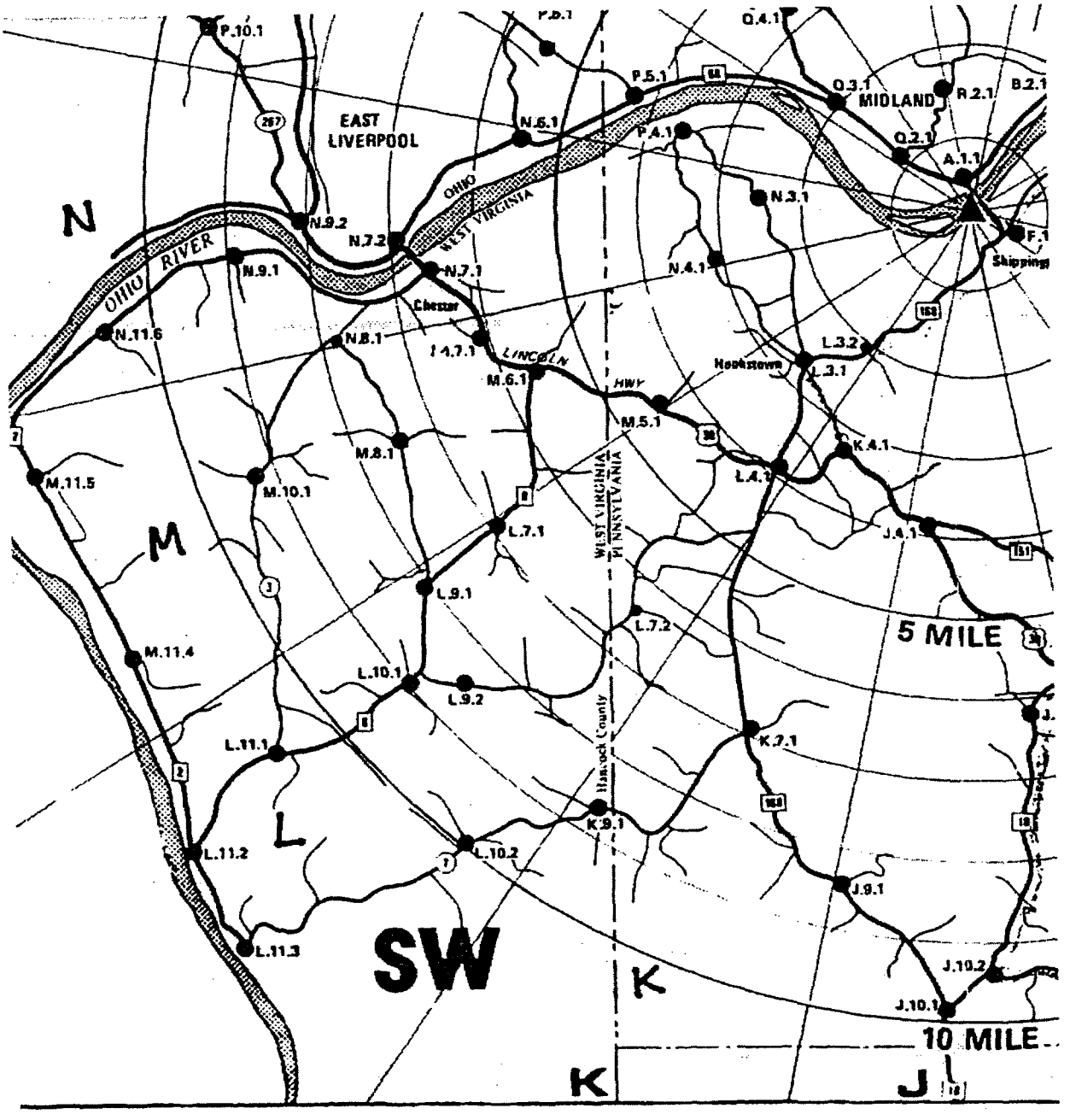
ATTACHMENT C
Page 1 of 4
SW OFFSITE SURVEY MAP



ATTACHMENT C
Page 2 of 4
SW OFFSITE SURVEY MAP

SOUTHWEST 5 MILE ROUTE

POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
L.3.1	Major Intersection in Hookstown	Good
L.4.1	Intersection of Rt. 168 & Rt. 30	Good
J.4.1	Intersection of Rt. 30 & Tr. 151	Good
H.5.1	Intersection of Rt. 151 & Rt. 18	Good
H.6.2	Intersection of Rt. 18 & Rt. 30	Fair
M.5.1	West on Rt. 30, 1.2 miles Past L.4.1 or East on Rt. 30, 1.2 miles Past M.6.1	Good
M.6.1	Intersection of Rt. 30 & Rt. 8	Good
N.7.1	West Virginia-Ohio Bridge, Rt. 30	Good
N.6.1	Intersection of Rt. 39 & Parkway	Good
Q.2.1	Entrance to J&L Steel, Rt. 68 Midland	Good
A.1.1	Midland Side of Rt. 168 Bridge	Good

SOUTHWEST 10 MILE ROUTE

POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
L.3.1	Major Intersection in Hookstown	Good
L.4.1	Intersection of Rt. 168 & Rt. 30	Good
J.4.1	Intersection of Rt. 30 & Tr. 151	Good
H.5.1	Intersection of Rt. 151 & Rt. 18	Good
H.6.2	Intersection of Rt. 18 & Rt. 30	Fair
J.10.1	Intersection of Rt. 18 & Rt. 168	Good
J.9.1	Entrance to Youth Forestry Camp Rt. 168	Good
K.7.1	Intersection of Hanover-Kendal Rd. & Rt. 168, 2.7 miles from J.9.1 or 3.3 miles from L.A.1	Good
K.9.1	Intersection of Rt. 7 & Rt. 24	Good
L.10.2	Intersection of Rt. 7 & Rt. 26, (Florence Rd.) Sewage Lift Station	Good
L.11.3	Intersection of Rt. 2 & Rt. 7, (Hardin's Run)	Fair

ATTACHMENT C
Page 3 of 4
SW OFFSITE SURVEY MAP

SOUTHWEST 10 MILE ROUTE

POINT	LOCATION	RADIO COMMUNICATION
L.11.2	Intersection of Rt. 2 & Rt. 8	Good
M.11.4	Bridge of Tomlinson Lake, Rt. 2	Good
M.11.5	Intersection of Rt. 2 & Rt. 208	Good
N.11.6	Intersection of Rt. 2 & Rt. 3/6, R.R. Crossing	Good
N.9.1	Intersection of Rt. 2 & Rt. 1	Good
N.7.1	West Virginia-Ohio Bridge, Rt. 30	Good
N.6.1	Intersection of Rt. 39 & Parkway	Good
Q.2.1	Entrance to J&L Steel Rt. 68 Midland	Good
A.1.1	Midland Side of Rt. 168 Bridge over Ohio	Good
L.4.1	Intersection of Rt. 168 & Rt. 30	Good

SOUTHWEST ROUTE

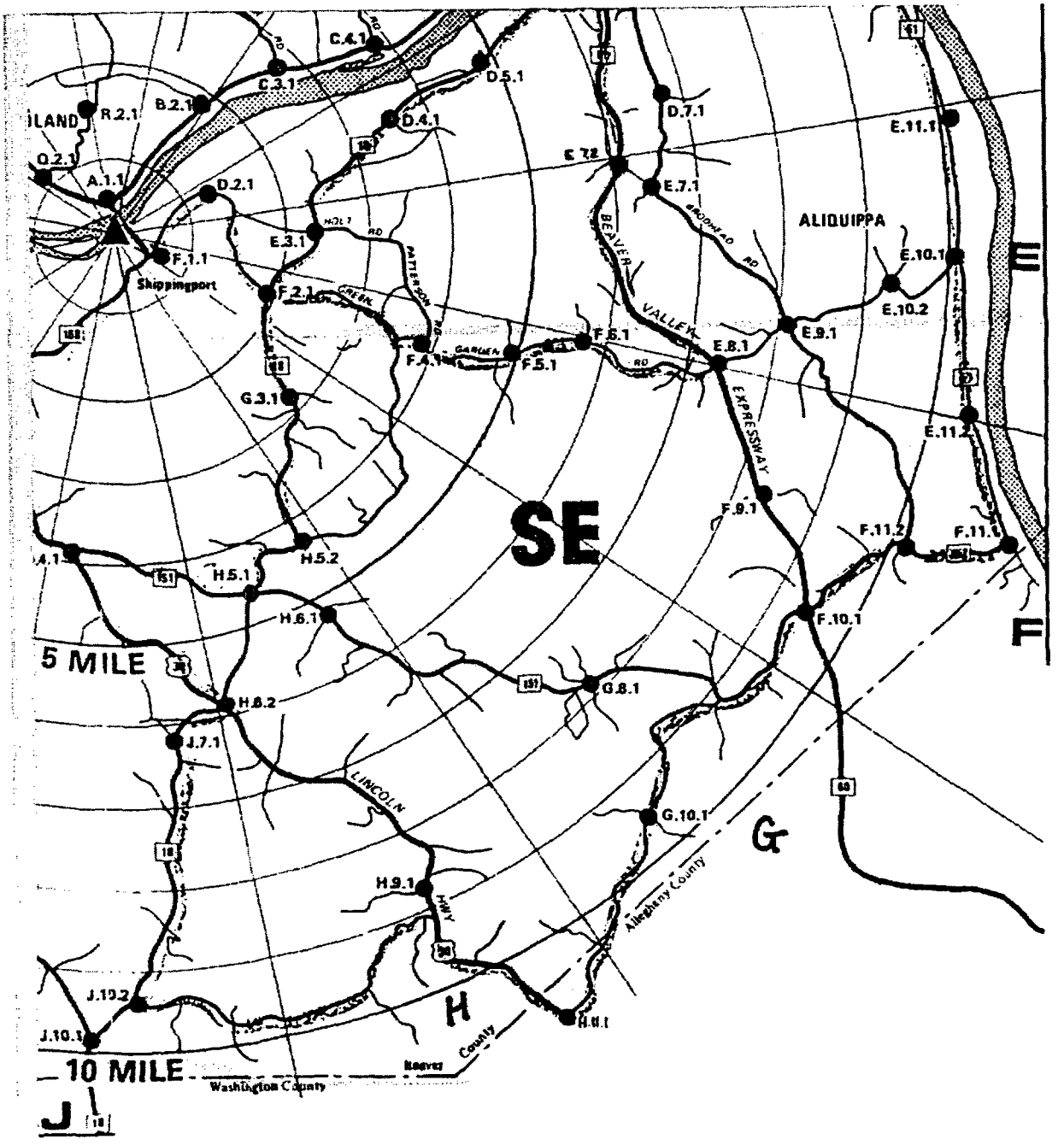
POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
L.3.1	Major Intersection in Hookstown	Good
L.4.1	Intersection of Rt. 168 & Rt. 30	Good
J.4.1	Intersection of Rt. 30 & Tr. 151	Good
H.5.1	Intersection of Rt. 151 & Rt. 18	Good
H.6.2	Intersection of Rt. 18 & Rt. 30	Fair
J.10.1	Intersection of Rt. 18 & Rt. 168	Good
J.9.1	Entrance to Youth Forestry Camp Rt. 168	Good
K.7.1	Intersection of Hanover Rd. & Rt. 18, 2.7 miles from L.4.1	Good
M.5.1	West on Rt. 30, 1.2 miles Past L.4.1 or East or East on Rt. 30, 1.2 miles Past M.6.1	Good
M.6.1	Intersection of Rt. 30 & Rt. 8	Good
N.7.1	West Virginia-Ohio Bridge, Rt. 30	Good
A.1.1	Midland Side of Rt. 168 Bridge	Good
Q.2.1	Entrance to J&L Steel, Rt. 68 Midland	Good
N.6.1	Intersection of Rt. 39 & Parkway Rd.	Good

ATTACHMENT C
Page 4 of 4
SW OFFSITE SURVEY MAP

SOUTHWEST ROUTE

POINT	LOCATION	RADIO COMMUNICATION
N.4.1	Second Bridge Past Hookstown Intersection	Good
P.4.1	Georgetown Sand & Gravel	Good
N.3.1	Top of Hill Next to DLCO Radio Tower	Good
L.7.1	Intersection of Rt. 8 & Rt. 14	Good
L.9.1	Intersection of Rt. 8 & Rt. 5	Good
L.10.1	Tomlinson Run State Park Entrance, Rt. 8	Good
L.11.1	Intersection of Rt. 8 & Rt. 3	Good
L.9.2	Oak Glen High School, County Rd. 18	Good
L.7.2	Intersection of Pumpkin Hollow Rd. & Gas Valley Rd.	Fair
N.9.1	Intersection of Rt. 2 & Rt. 1	Good
N.11.6	Intersection of Rt. 2 & Rt. 3/6, RR Crossing	Good
M.11.5	Intersection of Rt. 2 & Rt. 208	Good
M.11.4	Bridge Over Tomlinson Lake, Rt. 2	Good
L.11.2	Intersection of Rt. 2 & Rt. 8	Good
L.11.3	Intersection of Rt. 2 & Rt. 7, (Hardin's Run)	Fair
L.10.2	Intersection of Rt. 7 & Rt. 26, (Florence Rd.)	Good
K.9.1	Intersection of Rt. 7 & Rt. 24	Good
M.10.1	Intersection of Rt. 3 & Rt. 208	Good
N.8.1	Intersection of Rt. 3/2 & Rt. 5	Good
M.8.1	Intersection of Rt. 5 & Rt. 208	Good

ATTACHMENT D
Page 1 of 4
SE OFFSITE SURVEY MAP



ATTACHMENT D
Page 2 of 4
SE OFFSITE SURVEY MAP

SOUTHEAST 5 MILE ROUTE

POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
D.2.1	Bruce Mansfield Plant Entrance	Good
F.2.1	Intersection of Rt. 18 & Green Garden Rd.	Good
E.3.1	Intersection of Rt. 18 & Holt Rd.	Good
D.4.1	"Y" in road at Rt. 18 and Mowry Rd.	Good
D.5.1	Main Plant Entrance NOVA CHEMICALS, Rt. 18	Good
D.6.1	Zinc Corp. of American Entrance, Rt. 18	Good
E.7.2	Center Exit of Rt. 60	Good
E.8.1	Aliquippa Exit of Rt. 60	Good
F.6.1	Intersection of Penny Hollow Park Rd. & Green Garden Road	Good
F.4.1	Intersection of Green Garden Rd. & Patterson Rd.	Good
G.3.1	Superior Mobile Homes, Rt. 18 and Calhoun Rd.	Good
H.5.1	Intersection of Rt's 18 & 151	Good
J.4.1	Intersection of Rt's 30 & 151	Good
L.3.1	Main Intersection in Hookstown	Good

SOUTHEAST 10 MILE ROUTE

POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
D.2.1	Bruce Mansfield Plant Entrance	Good
F.2.1	Intersection of Rt. 18 & Green Garden Rd.	Good
E.3.1	Intersection of Rt. 18 & Holt Rd. 1.1 mile from F2.1	Good
D.4.1	"Y" in road at Rt. 18 and Mowry Rd.	Good
D.5.1	Main Plant Entrance NOVA CHEMICALS, Rt. 18	Good
D.6.1	Zinc Corp. of American, Rt. 18	Good
D.8.1	Intersection of Rt's 18 & 51, Beaver Valley Mall	Good
D.9.1	Walmart Plaza, Rt. 18/51	Good

ATTACHMENT D
Page 3 of 4
SE OFFSITE SURVEY MAP

SOUTHEAST 10 MILE ROUTE

POINT	LOCATION	RADIO COMMUNICATION
D.10.1	Pheonix Glass Parking Lot, Penn Ave., Monaca	Good
D.10.2	Intersection of Constitution Blvd. and Monaca Rd.	Good
E.11.1	Entrance to West Aliquippa, Constitution Blvd.	Good
E.10.1	Intersection of Constitution & Franklin Ave. (Old Entrance to J&L Steel Plant)	Good
E.10.2	Intersection of Franklin Ave. & Kennedy Blvd., Aliq.	Good
E.11.2	Ambridge-Aliquippa Bridge, Constitution Blvd.	Fair
F.11.1	Phillips Power Station, Constitution Blvd./Rt. 51	Poor
F.11.2	Intersection of Rt's 51 & 151	Good
F.10.1	Intersection of Rt's 151 & 60, 60 overpasses 151	Good
G.10.1	2nd Intersection Past Booktown (off Rt. 151)	Good
H.11.1	Janoskis Farm Rt. 30 - Allegheny Co.	Fair
H.9.1	Raccoon Park Entrance, Rt. 30	Fair
J.10.1	Intersection of Rt's 18 & 168	Good
H.6.2	Intersection of Rt's 18 & 30	Fair
J.4.1	Intersection of Rt's 30 & 151	Good
L.3.1	Main Intersection in Hookstown	Good

SOUTHEAST ROUTE

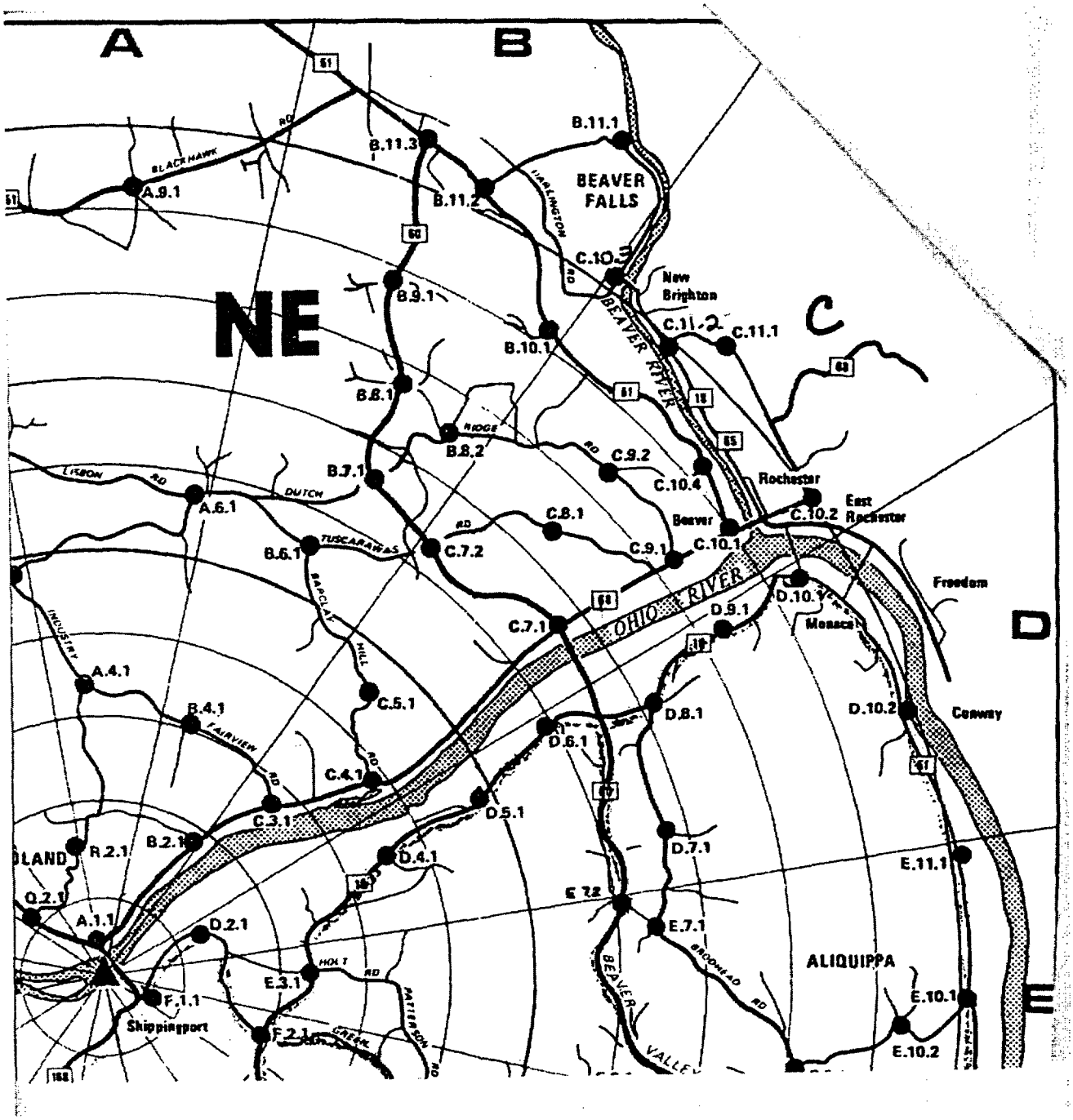
POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
D.2.1	Bruce Mansfield Plant Entrance, Rt. 18	Good
F.2.1	Intersection of Rt. 18 & Green Garden Rd.	Good
E.3.1	Intersection of Rt. 18 & Holt Rd.	Good
D.4.1	"Y" in road at Rt. 18 and Mowry Rd.	Good
D.5.1	Main Plant Entrance NOVA CHEMICALS, Rt. 18	Poor
D.8.1	Intersection of Rt's 18 & 51, Beaver Valley Mall	Good
D.9.1	Walmart Plaza, Rt. 18/51	Good
D.10.1	Pheonix Glass Parking Lot, Penn Ave., Monaca	Good

ATTACHMENT D
Page 4 of 4
SE OFFSITE SURVEY MAP

SOUTHEAST ROUTE (Continued)

POINT	LOCATION	RADIO COMMUNICATION
D.10.2	Intersection of Constitution Blvd. and Monaca Rd.	Good
E.9.1	Intersection of Brodhead Rd. and Kennedy Blvd.	Good
E.11.1	Entrance to West Aliquippa, Constitution Blvd.	Good
E.10.1	Entrance to Aliquippa from Constitution Blvd.	Good
E.10.2	Inter. of Franklin Ave. & Kennedy Blvd., Aliq	Good
E.11.2	Ambridge-Aliquippa Bridge, Constitution Blvd.	Fair
F.11.1	Phillips Power Station, Constitution Blvd./Rt. 51	Poor
F.11.2	Intersection of Rt's 51 & 151	Good
F.10.1	Intersection of Rt. 151 and Rt. 60, 60 overpasses 151	Good
H.11.1	Mazzaro Coal- right side Rt. 30 - Allegheny Co.	Fair
H.9.1	Raccoon Park Entrance, Rt. 30	Fair
J.10.1	Intersection of Rt's 18 & 168	Good
G.8.1	Steel Bridge on Rt. 151	Good
H.6.1	2 Miles east from 18 & 151 Intersection or 2 Miles west on Rt. 151 from G.8.1	Good
H.5.1	Intersection of Rt's 151 & 18	Good
H.6.2	Intersection of Rt's 18 & 30	Fair
G.3.1	Superior Mobile Homes, Rt. 18 and Calhoun Rd.	Good
L.3.1	Main Intersection in Hookstown	Good
D.7.1	Entrance to Community College of Beaver County, Brodhead Road	Good
E.7.1	BCTA Expressway Travel Center off of Rt. 60 Ramp	Good
E.7.2	Center Exit of Rt. 60	Good
F.9.1	Bridge on Rt. 60, 1.6 miles north of Hopewell exit	Good
E.8.1	Aliquippa Exit of Rt. 60	Good
F.6.1	Penny Hollow Park Rd. & Green Garden Rd.	Good
F.4.1	Intersection of Green Garden Rd. & Patterson Rd.	Good
G.10.1	2nd Intersection past Booktown (off Rt. 151)	Good

ATTACHMENT E
Page 1 of 4
NE OFFSITE SURVEY MAP



ATTACHMENT E
Page 2 of 4
NE OFFSITE SURVEY MAP

NORTHEAST 5 MILE ROUTE

POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
A.1.1	Rt. 168 Bridge on the Midland side of Ohio River	Good
B.2.1	Red Brick Bldg. on left side of Rt. 68, 1.5 m from A.1.1	Good
C.3.1	Intersection of Rt. 68 & Engle Rd.	Good
C.4.1	Intersection of Rt. 68 & Barclay Hill Rd.	Good
C.5.1	Inter. of John E. Gray Dr. & Barclay Hill Rd.	Good
B.6.1	Intersection of Barclay Hill Rd. & Tuscarawas Rd.	Good
A.6.1	Intersection of Lisbon Rd. and Tuscarawas Rd.	Good
R.5.1	Intersection of Engle Rd. & Tuscarawas Road	Good
R.5.2	Intersection of Tuscarawas Rd. & Rt. 168	Good
Q.4.1	Intersection on Rt. 168, Eastwood Rd.	Good
Q.3.1	Intersection of Rt. 168 and Rt. 68	Good

NORTHEAST 10 MILE ROUTE

POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
A.1.1	Rt. 168 Bridge on the Midland side of Ohio River	Good
B.2.1	Red Brick Bldg. on left side of Rt. 68, 1.5 m from A.1.1	Good
C.3.1	Intersection of Rt. 68 & Engle Rd.	Good
C.4.1	Intersection of Rt. 68 & Barclay Hill Rd.	Good
C.7.1	Intersection of Rt. 68 & Rt. 60 Rt. 68 overpasses Rt. 60	Good
C.9.1	Beaver County Courthouse, Rt. 68	Good
C.10.1	Intersection of Rt's 68 & 51, 68 overpasses 51	Good
C.10.2	Huntsman Funeral Home at right angle bend in Rt. 68	Good
C.11.1	Four way intersection at bottom of Marion Hill	Good

ATTACHMENT E
Page 3 of 4
NE OFFSITE SURVEY MAP

NORTHEAST 10 MILE ROUTE (Continued)

POINT	LOCATION	RADIO COMMUNICATION
C.10.3	Morrow Ford across bridge over Beaver River, Rt. 18	Good
B.11.1	3 way inter. at Geneva College Athletic complex	Fair
B.11.3	Intersection of Rt's 60 & 51 at Chippewa	Fair
C.11.2	Diamond Milling near N. Brighton/ Beaver Falls Bridge	Good
C.10.4	Inter. of Rt 51 & Sharon Rd.	Good
A.9.1	Blackhawk Public Golf Course, Rt. 251	Good
R.10.1	Intersection of Rt's 251 & 168	Fair
R.8.1	Intersection of Lisbon Rd. & Rt. 168	Good
Q.5.1	Ohioville Vol. Fire Dept., Rt. 168	Good
Q.4.1	Intersection on Rt. 168, 2.3m from Q.5.1	Good
Q.3.1	Intersection of Rt's 168 & 68, Midland	Good

NORTHEAST ROUTE

POINT	LOCATION	RADIO COMMUNICATION
F.1.1	Plant Entrance	Good
Q.3.1	Intersection of Rt's 168 & 68, Midland	Good
A.1.1	Rt. 168 Bridge on the Midland side of Ohio River	Good
B.2.1	Red Brick Bldg. on left side of Rt. 68, 1.5 m from A.1.1	Good
C.3.1	Intersection of Rt. 68 & Industry Engle Rd.	Good
C.4.1	Intersection of Rt. 68 & Barclay Hill Rd.	Good
C.7.1	Intersection of Rt. 68 & Rt. 60 Rt. 68 overpasses Rt. 60	Good
C.9.1	Beaver County Courthouse, Rt. 68	Good
C.10.1	Intersection of Rt's 68 & 51, 68 overpasses 51	Good
C.10.2	Huntsman Funeral Home at right angle bend in Rt. 68	Good

ATTACHMENT E
Page 4 of 4
NE OFFSITE SURVEY MAP

NORTHEAST ROUTE (Continued)

POINT	LOCATION	RADIO COMMUNICATION
C.10.3	Morrow Ford across bridge over Beaver River, Rt. 18	Good
B.11.1	Three-way Inter. at Geneva College Athletic Complex	Good
B.11.2	Intersection of Rt's 588 & 51	Good
B.10.1	Top of Fallston Hill Golf Course	Good
C.10.4	Intersection of Rt. 51 and Beaver Hollow Rd.	Good
C.8.1	Top of Hill on Tuscarawas Rd. at Walington Estates	Good
C.7.2	Intersection of Tuscarawas Rd. and Rt. 60	Good
C.5.1	Inter. of John E. Gray Dr. & Barclay Hill Rd.	Good
B.6.1	Intersection of Barclay Hill Rd. & Tuscarawas Rd.	Good
A.6.1	Intersection of Lisbon Rd. and Tuscarawas Rd.	Good
R.7.1	Intersection on Lisbon Rd. & Ridgemont Rd.	Good
R.8.1	Intersection of Lisbon Rd. & Rt. 168	Good
R.10.1	Intersection of Rt's 168 & 251	Poor
A.9.1	Blackhawk Public Golf Course, Rt. 251	Poor
Q.5.1	Ohioville Vol. Fire Dept., Rt. 168	Good
Q.4.1	Intersection on Rt. 168 & Eastwood Rd.	Good
Q.3.1	Intersection of Rt's 168 & 68	Good
B.11.3	Intersection of Rt's 60 & 51	Fair
B.9.1	Bridge on Rt. 60 over Brady's Run County Park	Good
B.7.1	Intersection of Dutch Ridge Rd. and Rt. 60	Good
C.7.2	Intersection of Tuscarawas Rd. and Rt. 60	Good
B.4.1	Western Beaver High School	Good
C.9.2	Beaver County Medical Center--Dutch Ridge Rd.	Good
R.5.1	Intersection of Engle Rd. & Tuscarawas Rd.	Good
R.5.2	Intersection of Tuscarawas Rd. and Rt. 168	Good

ATTACHMENT F
Page 1 of 1
AIR SAMPLE RECORD CARD

AIR SAMPLE RECORD CARD A5.715EA

Air sample locations: _____

Date: _____ Surveyor: _____

Sampler ID# _____

Sampler Flow Rate ft^3/min _____

Sample time: (10 ft^3 /Sampler Flow Rate cfm) - _____

Sample Start Time: _____ Stop Time: _____

Sample Volume: _____

INTENTIONALLY BLANK

ATTACHMENT G
Page 1 of 2
RADIO PROTOCOL

Because radio communications is one way at a time (unlike a telephone), the use of a standard protocol is necessary to minimize confusion, speed operation and insure accurate transfer of information.

1) Begin a transmission with the name of the receiving party followed by the name of the transmitting party. For example, "Beaver Valley EA & DP this is Field Monitoring Team One, over". Wait for the receiving party to acknowledge before relaying data. During a series of exchanges, terminate each transmission with "over" to indicate to the other person that they may transmit. End the final transmission of a series with an appropriate termination phrase. For example, "Monitoring Team One out".

2) Controlling group (EA & DP, OSC) communicators must avoid general statements such as, "Monitoring teams report your dosimeter readings". This can result in confusion due to simultaneous transmissions by two or more teams. Direct such inquiries to each team in sequence. The only exception to this is if no response is needed from the individual teams.

3) Certain letters of the alphabet can be confused when said (V and B, P and B, as examples). When spelling words for clarity or giving alphabetic designators, use the standard international phonetic alphabet shown in Step 7. Monitoring locations D.2.1 becomes "Delta point two point one". For a word like bat., say "I spell-bravo, alpha, tango", giving the phonetics slowly.

4) Give numerical information as digits rather than reading it as a number. 2432 becomes two, four, three, two rather than two thousand four hundred thirty two. 35.7 becomes three, five, point, seven rather than thirty five and seven tenths.

5) Report data as specified in the Field Monitoring EPP/IPs - that is by block location on the forms and without units such as mR/hr., cubic ft., or cpm. If units must be given, say them out - millirem per hour, counts per minute, etc. Avoid jargon and abbreviations.

6) Insure correct data transferal by obtaining repeat backs of all data sent and provide repeat back or acknowledgment of messages received. (Three-way Communication)

ATTACHMENT G
Page 2 of 2
RADIO PROTOCOL

A5.715EA

7) Avoid exclamatory or alarming statements. When you press the microphone button, you are making a public announcement because of the many scanners that can receive business band communications.

INTERNATIONAL PHONETIC ALPHABET

A-ALPHA	J-JULIETT	S-SIERRA
B-BRAVO	K-KILO	T-TANGO
C-CHARLIE	L-LIMA	U-UNIFORM
D-DELTA	M-MIKE	V-VICTOR
E-ECHO	N-NOVEMBER	W-WHISKEY
F-FOXTROT	O-OSCAR	X-XRAY
G-GULF	P-PAPA	Y-YANKEE
H-HOTEL	Q-QUEBEC	Z-ZULU
I-INDIA	R-ROMEO	

A5.735B

Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-2.4

OFFSITE MONITORING FOR LIQUID RELEASE

Document Owner
Manager, Emergency Preparedness

Revision Number	9
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

CONTROLLED
BVPS UNIT 3

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ATTACHMENT A RADIO PROTOCOL 9

1.0 PURPOSE

1.1 This procedure provides instructions for monitoring team personnel for performing offsite radiological monitoring in the event of a release of radioactive material to the Ohio River. Offsite monitoring is directed and coordinated by the EA&DP Coordinator and/or Emergency Director in accordance with EPP/IP 2.1, "Emergency Radiological Monitoring".

2.0 SCOPE

2.1 Sampling of the Ohio River will be accomplished at the Midland and East Liverpool Water Treatment Plants.

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 Beaver Valley Power Station Emergency Implementing Procedure EPP/IP 2.1, "Emergency Radiological Monitoring"

3.1.2 Beaver Valley Power Station Health Physics Manual

3.1.3 Beaver Valley Power Station Chemistry Manual

3.1.4 Beaver Valley Power Station Environmental Monitoring Procedure

3.2 Commitments

3.2.1 None

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 None

4.2 Forms

4.2.1 None

5.0 RESPONSIBILITIES

5.1 EA & DP Coordinator

5.1.1 Directs the offsite radiological monitoring for liquid releases using this procedure as reference.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Precautions

6.1.1 Exposures are controlled in accordance with EPP/IP 5.3, "Emergency Exposure Criteria and Control".

6.1.1.1 The use of potassium iodide (KI) is controlled in accordance with EPP/IP 3.4, "Emergency Respiratory Protection", and EPP/IP 5.3, "Emergency Exposure Criteria and Control".

6.1.2 Monitoring teams must remain alert to their own exposure and request relief if their cumulative exposure approaches a BVPS administrative control level. The Emergency Director and/or Radiological Controls Coordinator may authorize exposure limit extensions, if necessary (See EPP/IP 5.3). Monitoring personnel shall read their dosimeters and report the readings to the TSC/EOF at least every 30 minutes, or when dosimeter reading reaches 100 mrem.

6.1.3 Communications between the monitoring team and the TSC/EOF or OSC will normally be via telephone or cell phone, however, it may be necessary to use the radio. Since radio communications at this frequency can be intercepted by commercially available scanners, observe proper radio protocol (Attachment A).

6.1.4 If members of the public or the news media solicit information from the monitoring team, the team shall:

6.1.4.1 Be courteous.

6.1.4.2 Explain that the survey is a precautionary measure, and, that the survey data are raw data that have not been evaluated, and, that significant final data will be reported to State and local authorities.

6.1.4.3 Direct additional public questions to the local county information line. The telephone number is provided in the emergency response section (blue pages) of the telephone directory.

6.1.4.4 Direct additional news media questions to the Chief Company Spokesperson at 412-604-4923.

6.1.5 Since implementation of proper protective actions onsite and offsite, and subsequent reconstruction of the event requires accurate information, observe the following guidelines:

6.1.5.1 Use proper radio protocol during transmissions to the TSC/EOF or OSC to insure accurate data transfer and avoid confusion (Attachment A).

6.1.5.2 Accurately document all survey data. Ensure that units associated with the data are clear. Enter the date and time on all survey records.

7.0 PREREQUISITES

7.1 A release of radioactive material has occurred and has entered the Ohio River and the EA & DP Coordinator and/or the Emergency Director has requested an offsite survey.

7.2 TSC/EOF personnel have provided monitoring team members with specific instructions on sample locations, sample desired, and requirements for protective clothing and respirators, as applicable.

7.3 Sampling kits are available.

8.0 PROCEDURE

8.1 Obtain the kit labeled Water Monitoring Team Kit located in the ERF. Obtain and rezero assigned dosimeters, if applicable. Confirm with the Radiological Operations Center or Radcon Supervision that the appropriate Water Treatment Plant has been notified of a radioactive liquid release per EPP/IP 1.1, Notifications and form EPP-IP-1.1.F03, Follow-Up Notification Form prior to leaving site.

8.2 Obtain a cell phone, Hi-band "Handie-Talkie" or a 60 Watt Monitoring Team Unit and check operation before leaving the Station. Keep the radio operational at all times while offsite in order to maintain communications with the TSC/EOF or OSC.

8.3 Prior to leaving the Station, ensure that you have necessary monitoring equipment and understand the sampling assignment. Retain your dosimetry devices (low and high range) while performing radiological monitoring offsite. Leave the station via the Personnel Access Facility (PAF).

8.4 Don protective clothing and/or respirators if directed by EA & DP personnel. Both protective measures may be necessary if a significant airborne release has occurred concurrent with the liquid release.

8.5 Obtain a BVPS vehicle, or another vehicle, meeting the following criteria:

8.5.1 Enclosed vehicle with sufficient room for the monitoring kit and fixed seating, with seat belts, for all team members, and,

8.5.2 Operable cigarette lighter receptacle, and,

8.5.3 At least 1/2 tank of gas, and,

8.5.4 Current State motor vehicle inspection sticker (if applicable).

8.5.5 If personal vehicle, ensure insurance is in effect.

8.6 Proceed to the Midland Water Treatment Company or East Liverpool Water Treatment Plan, as directed, as soon as possible. Maps showing the location of the Midland and the East Liverpool Water Treatment Plants are provided in Figure 1.

8.7 Identify yourself as BVPS employees with BVPS identification card. Contractor personnel identify yourself with your BVPS TLD badge, if applicable.

8.8 Request access to the Finished Water and Raw Water Sample Lines per Figures 2 or 3.

8.9 Take a clean 1 liter bottle and place it under the tap to obtain a sample of the water being discharged to the public water system (Finished Water). Label the bottle as to sample location, time of sampling and date.

8.10 Take a clean 1 liter bottle and place it under the tap to obtain a sample of raw water entering the treatment plant. Label the bottle as to sampling location, time of sampling, and date.

8.11 If a runner is available, send the sample back to the Station (or another designated location) for analyses.

8.12 Draw additional 1-liter samples every fifteen minutes until otherwise directed by the TSC/EOF or OSC

8.13 As directed by the TSC/EOF or OSC, secure special sampling at the Midland Water Treatment Plant, or East Liverpool Water Treatment Plant, and proceed, as directed, or return to the Station.

8.14 If directed by the TSC/EOF or OSC, obtain a river sample upstream of the BVPS site for background activity determination.

FIGURE 1
MIDLAND WATER DEPT. WATER TREATMENT PLANT LOCATION

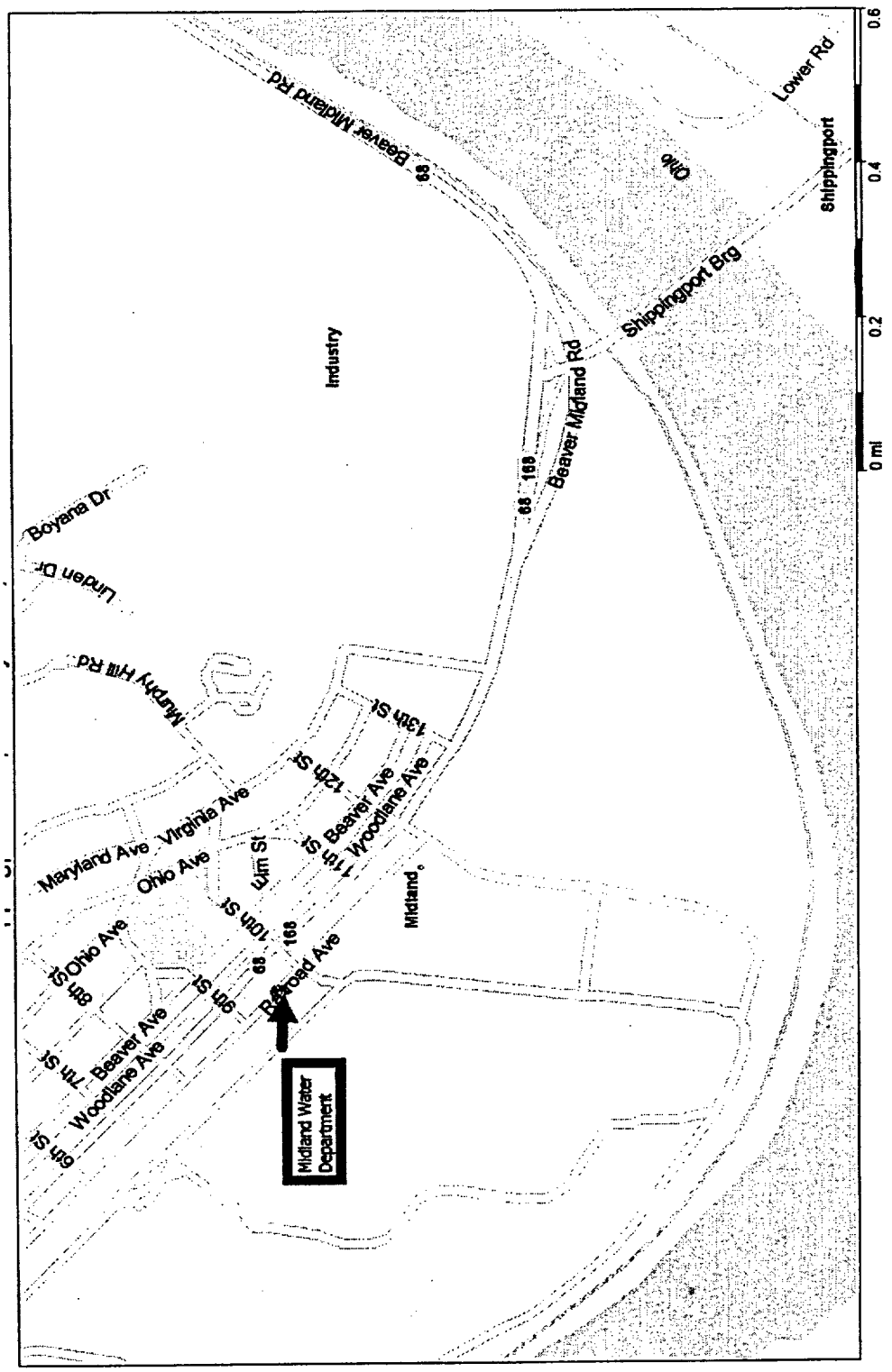


FIGURE 2
EAST LIVERPOOL WATER DEPT.

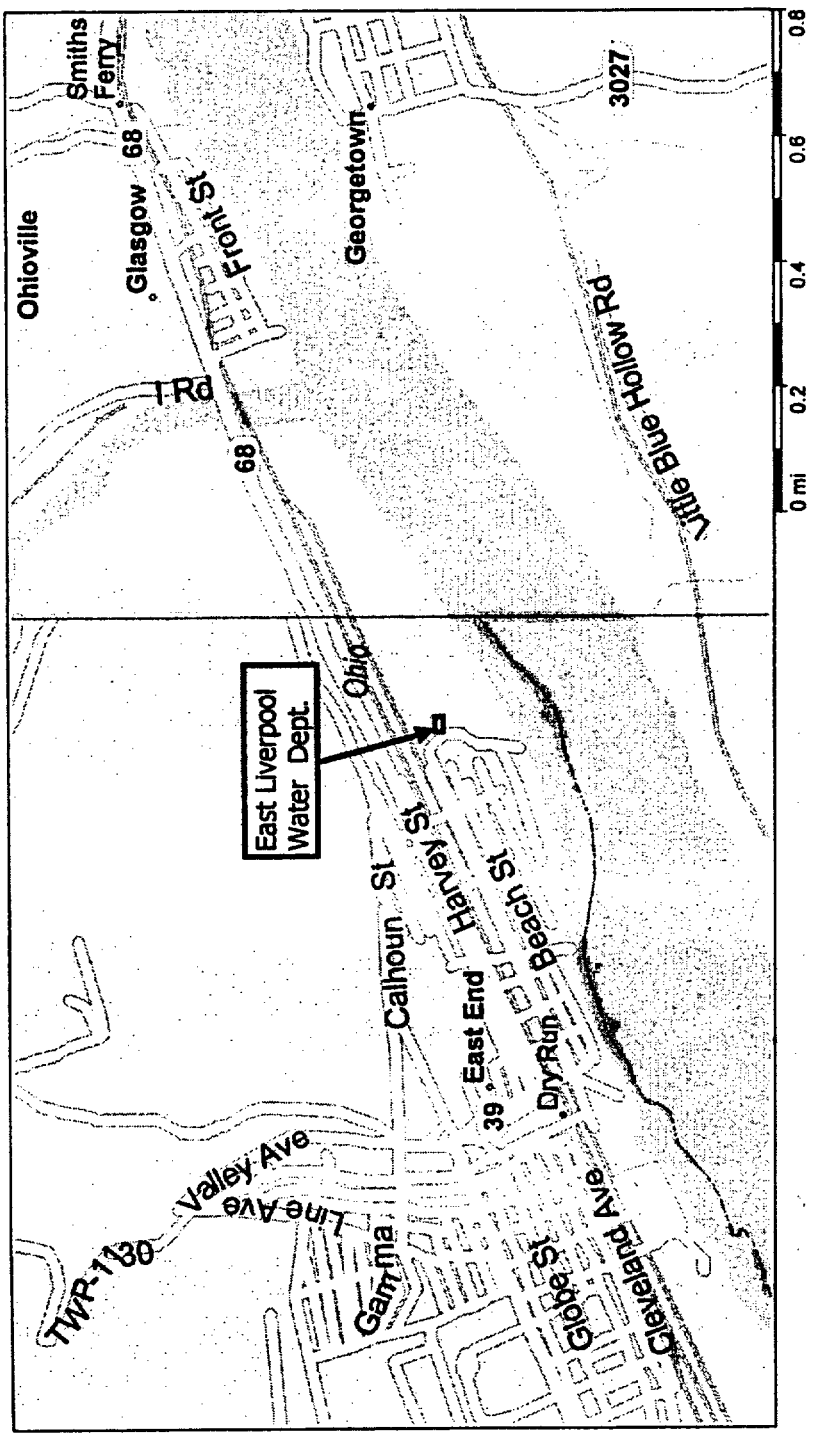


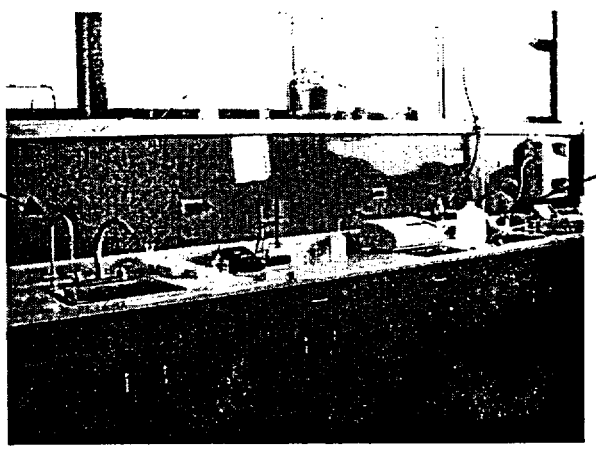
FIGURE 3
MIDLAND WATER TREATMENT PLANT

Water Lab
To the Right

Main Floor
Entrance

Water Lab
(Upstairs)

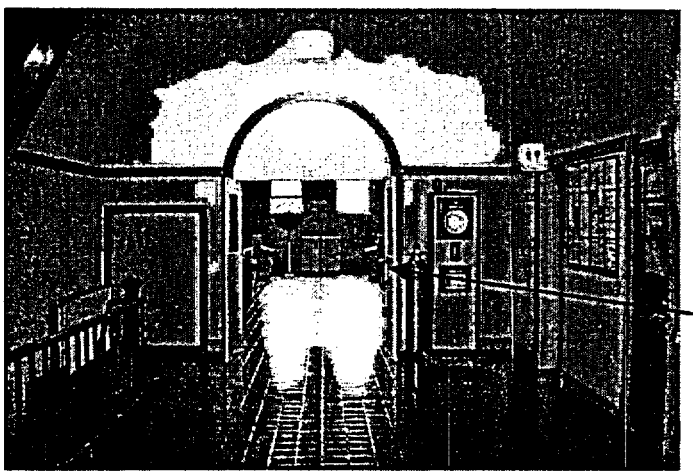
Raw Water



Finished Water

Sample Area
In Water Lab

FIGURE 4
EAST LIVERPOOL WATER TREATMENT PLANT



First Floor Entrance

Finished Water

First Floor

Finished Water

Raw Water

Basement

ATTACHMENT A
Page 1 of 2
RADIO PROTOCOL

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ATTACHMENT A
Page 2 of 2
RADIO PROTOCOL

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INTERNATIONAL PHONETIC ALPHABET

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B-BRAVO	K-KILO	T-TANGO
C-CHARLIE	L-LIMA	U-UNIFORM
D-DELTA	M-MIKE	V-VICTOR
E-ECHO	N-NOVEMBER	W-WHISKEY
F-FOXTROT	O-OSCAR	X-XRAY
G-GULF	P-PAPA	Y-YANKEE
H-HOTEL	Q-QUEBEC	Z-ZULU
I-INDIA	R-ROMEO	

A5.735B

Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-3.4

EMERGENCY RESPIRATORY PROTECTION

Document Owner
Manager, Emergency Preparedness

Revision Number	9
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

CONTROLLED
BVPS UNIT 3

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ATTACHMENT A INSTRUCTIONAL MATERIAL ON THE USE OF POTASSIUM IODIDE 9

1.0 PURPOSE

1.1 This procedure provides guidance for the use of respiratory protection equipment under conditions where normal respiratory protection measures may be inadequate due to increased radioactivity levels or may be undesirable or unsuitable due to its impairing communication and/or movement.

2.0 SCOPE

2.1 None

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 Beaver Valley Power Station Emergency Preparedness Plan and Implementing Procedures.

3.1.2 Title 10 Code of Federal Regulations Part 20 and Part 50.

3.1.3 NUREG-0041, "Manual of Respiratory Protection Against Airborne Radioactive Materials".

3.1.4 DHEW, FDA, "Potassium Iodide as a Thyroid Blocking Agent in a Radiation Emergency", FR 43-58798, December 15, 1978.

3.1.5 Commonwealth of Pennsylvania Department of Health Radiation Emergency Response Plan, Appendix J, "Patient Information (on the) Use of Saturated Solution of Potassium Iodide (SSKI) for Thyroid Blocking".

3.1.6 NCRP Report No. 39, "Basic Radiation Protection Criteria".

3.1.7 EPA 400-R-92-001, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents, Appendix C.

3.1.8 Letter NMS:0899, Potassium Iodide, 02/27/02.

3.2 Commitments

3.2.1 None

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 Attachment 1, Potassium Iodide Issue Roster

4.2 Forms

4.2.1 None

5.0 RESPONSIBILITIES

5.1 Emergency Director

5.1.1 Is the only individual who may authorize dose extensions in excess of 10CFR20, and/or direct the issuance of thyroid prophylaxis to onsite emergency workers.

5.2 Radiological Controls Coordinator

5.2.1 Is responsible to insure the actions outlined in this procedure are implemented, when necessary.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Precautions

6.1.1 Precautions relative to the normal use of respiratory protection should be observed when respirators are worn during emergency conditions.

6.1.2 During emergency conditions, substantial respiratory hazards such as toxic gases, steam, flammable gases, and oxygen deficiency may likely be present concurrent with significant radioactivity. Respiratory protection should be assigned considering all of the hazards.

6.1.3 Respiratory protection equipment significantly impairs vision and communication. In an emergency a reduction in the ability to communicate readily and/or to view instrumentation, etc., may not be acceptable. For these reasons, respiratory protection for emergency workers should not be assigned unless the projected intake will exceed 80 DAC-hrs., based on the actual airborne radioactivity and the estimated duration of release (or area occupancy).

6.1.4 If the emergency condition is severe such that one or more EOP critical safety functions is in an orange or red path terminus, respirators should not be assigned to personnel present in the Control Room who are actively involved with the response to a declared emergency, or to operators sent into the plant to perform immediate actions mandated by the EOPs, if the projected exposure (based on actual airborne concentration and estimated time of exposure) is less than 200 DAC-hrs.

6.1.5 Airborne activity should be sampled/monitored during this period to detect any significant changes in levels. Appropriate bioassay should be performed as soon as possible following such exposure in accordance with EPP/IP-5.4, "Emergency Personnel Monitoring".

6.2 Limitations

6.2.1 Beaver Valley Power Station Radiation Protection procedure 1/2-ADM-1626 contains provisions governing the use of respiratory protection equipment during emergency conditions except as specifically provided in this EPP/IP or in the BVPS Emergency Preparedness Plan.

6.2.1.1 Twelve (12) Self-Contained Breathing Apparatus (SCBA) MSA Air-masks are maintained at BVPS Unit 1. The units are located as follows:

6.2.1.1.1 (5) Service Building hallway to PCA Shop, (1) Water Treatment Area, (6) Fire Brigade Room under the Central Alarm Station (CAS).

6.2.1.2 Fourteen (14) Self-Contained Breathing Apparatus (SCBA) are maintained at BVPS Unit 2. The Units are located as follows:

6.2.1.2.1 (5) BVPS Fire Van, (3) Fan Room outside (735') BV-2 Control Room, (6) Auxiliary Fire Brigade Storage Room beside the RP single access facility off the BV-2 Turbine Deck.

6.2.1.3 In addition to the air cylinders attached to the SCBA's, each unit is provided with a reserve cylinder. Additional reserve cylinders (to satisfy 10CFR50 Appendix R requirements) are located in storage racks on the Turbine Deck of the BV-1 Turbine Building and in BV-2 on the Turbine Deck of the Turbine Building.

NOTE:	BVPS maintains service orders with vendors who can provide cylinder service refills. Mine Safety Appliances Co. and/or Pro-Am Safety can be contacted to provide additional SCBA equipment as needed on an emergency basis.

6.2.1.4 The number of reserve cylinders maintained satisfy 10CFR50 Appendix R requirements.

7.0 PREREQUISITES

7.1 An emergency condition has been declared at the Beaver Valley Power Station as provided in the BVPS Emergency Preparedness Plan.

7.2 As a result of the emergency condition, airborne radioactivity is observed, significant enough to warrant respiratory protection.

8.0 PROCEDURE

NOTE:	Three exceptions to normal respiratory protection are addressed in this procedure. The first is the extension of normal uptake limits, the second is the use of thyroid prophylaxis, and the third is the use of iodine sorbent canisters on filter respirators with assigned protection factor credit for the sorbent, based on NRC approval.

8.1 Extension of Normal Limits

8.1.1 During emergency conditions, higher uptakes may be authorized in a manner similar to that for increased external exposure (EPP/IP-5.3). In these cases, the allowed internal exposure must be such that the total dose commitment -- internal and external exposure combined -- does not exceed that specified for external exposure in EPP/IP-5.3. It is infeasible to establish guidelines applicable to all conceivable scenarios, however, three guidelines are provided below. The Radiological Controls Coordinator will establish exposure limits and assign respiratory protection equipment that are compatible with the safe and timely performance of protective/corrective actions, or life-saving measures. Exposure limits in excess of 10CFR20 must be authorized by the Emergency Director.

8.1.1.1 Although all exposures shall be maintained as low as reasonably achievable during an emergency, respirators should not be assigned to emergency workers or Control Room personnel if the use of respirators will have an adverse effect on the timely implementation of emergency measures and the projected exposure (for the observed activity and estimated time of exposure) is less than 80 DAC-hours.

8.1.1.2 If the emergency condition is severe such that one or more EOP critical safety functions is in an orange or red path terminus, respirators should not be assigned to personnel present in the Control Room who are actively involved with the response to a declared emergency, or to operators sent into the plant to perform immediate actions mandated by the EOPs, if the projected exposure (based on actual airborne concentration and estimated time of exposure) is less than 200 DAC-hrs.

8.1.1.3 If the projected exposure above exceeds 80 DAC-hours, consideration should be given to alternative respiratory protection measures (such as possible engineering and/or process controls, or the use of respirators).

8.1.1.4 To the extent practical, and consistent with prevailing conditions, efforts to restore airborne activity levels to normal levels should be initiated as soon as possible.

WARNING: Potassium iodide has no protective effect for airborne particulate radioactivity, noble gases or tritium. Appropriate protective measures must still be established for these types of airborne radioactivity. Therefore, when practical, a respirator should be used in conjunction with potassium iodide along with time, distance and shielding to reduce internal and external dose.

8.1.2 Assigned protection factors for respirators are provided in RP procedures. However, the RP procedures provide that, for specific respirators, these assigned protection factors are not applicable unless the respirator type has been quantitatively fit-tested on the wearer. Under emergency conditions it is appropriate to allow protection factor credit for a respirator to be worn, by a trained user of the device without a quantitative fit test if:

- a qualitative fit test with a negative pressure respirator is performed as directed by the Respiratory Protection Coordinator, or designee, using a leak-tested respirator,

or

- a qualitative fit test with a Biopak 240P respirator is performed as directed by the Respiratory Protection Coordinator, or designee; or,

- a positive-pressure respirator (other than the Biopak 240P) is to be used.

8.2 Thyroid Prophylaxis (Potassium Iodide)

8.2.1 General

8.2.1.1 The release of substantial quantities of radioiodines is postulated for nearly every accident scenario that involves significant offsite exposure. These radioiodines pose a significant threat to the thyroid gland and will require protective action to minimize the thyroid exposure. Stable iodine is a useful agent to block the uptake of radioactive iodine species. Potassium iodide has been approved by the Food and Drug Administration (FDA) for this use.

8.2.1.2 Potassium iodide must be taken prior to exposure to radioiodine to be completely effective. Approximately 30 minutes are required for the onset of blocking following administration. A substantial benefit is obtainable, however, when the potassium iodide is administered within 3 to 4 hours following acute exposure to radioiodine. Limited benefits are obtainable up to 12 hours following exposure. The radioiodine which is not taken up by the thyroid will be eliminated from the body in about 48 hours, however, some recirculation is possible, so potassium iodide should be administered (about 130 mg/day) for 3 to 10 days following acute exposure. The FDA considered the risk of radioiodine-induced thyroid cancers and the incidence and severity of side effects from potassium iodide, and concluded that "...risks from the short term use of relatively low doses of potassium iodide for thyroid blocking in a radiation emergency are outweighed by the risks of radioiodine-induced thyroid nodules or cancer at a projected dose to the thyroid gland of 25 rem..."

8.2.1.3 This EPP/IP only applies to employees and contractors of FENOC. FENOC personnel shall not recommend use of nor supply potassium iodide to members of the general public.

8.2.1.4 Distribution of potassium iodide to offsite emergency workers or members of the general public is a decision for and the responsibility of the States of Ohio, Pennsylvania and West Virginia.

8.2.2 Criteria for Use

8.2.2.1 Potassium iodide (KI) has been approved by the Nuclear Power Division Medical Review Officer per NMS:0899, 2/27/02, as a protective measure for emergency use only. It shall be used at the Beaver Valley Power Station only under the following conditions, and at the direction of the Emergency Director.

8.2.2.1.1 KI use may be recommended by the Radiological Controls Coordinator, and approved by the Emergency Director for distribution to, and use by, (1) FENOC employees, and (2) contractors assigned to the Beaver Valley Power Station, for exposure situations in which the committed dose equivalent (CDE) to the thyroid of affected individuals is projected to exceed 25 rem, and no other reasonable protective measure, (e.g., respiratory apparatus, sheltering, or evacuation) is immediately available. The dosage shall be as provided in the drug package insert. FENOC personnel may distribute KI to personnel from offsite agencies who are assigned emergency response positions within Company facilities, if authorized by those agencies and under the constraints identified above. To be eligible to receive KI, individuals shall have received a briefing on, or have read, the information contained in the drug package insert, and the information in this EPP/IP. The use of KI by individuals shall be documented.

8.2.2.1.2 Although the Emergency Director may distribute KI and recommend its use, the use of KI by individuals is voluntary. If an individual declines to take KI under circumstances where projected dose to the thyroid will exceed 25 rem CDE, the individual should be barred from further planned exposure.

8.2.2.1.3 As used in this section, the CDE is calculated on the basis of adult dose conversion factors and inhalation rates. The dose equivalent due to the plume exposure external to the body is not summed with the internal dose equivalent in determining CDE. As a derived default threshold for the purposes of this EPP/IP, a radioiodine concentration of 2.4E-6 uCi/cc, or greater, inhaled for 8 hours may result in a projected thyroid CDE of 25 rem. This default threshold should be updated based on incident-specific assessments as soon as these data are available.

8.2.2.1.4 There is no assigned protection factor associated with the use of potassium iodide. Therefore, respirators and/or stay-time controls should continue to be used to maintain exposure to airborne activity (less noble gases) within designated limits.

8.2.2.1.5 Potassium iodide will be procured, stored, and administered to FENOC and contractor emergency personnel assigned to the Beaver Valley Power Station in accordance with the directives of BVPS Medical.

8.2.2.1.6 Personnel who are to be administered potassium iodide shall be briefed on the use of the material. Attachment A contains instructional material on potassium iodide as a thyroid prophylactic.

8.2.3 Post-Exposure Actions

8.2.3.1 Appropriate evaluation should be conducted using the guidance provided in EPP/IP 5.3 "Post-Exposure Evaluations".

8.3 Use of Iodine Sorbent Canisters

8.3.1 10 CFR 20, Appendix A does not provide an assigned protection factor for iodine sorbent canisters for routine use, because of difficulties ensuring continued protection. As a result, the only respirators which are suitable in iodine atmospheres are air supplied devices, such as SCBA and air-line respirators. (NUREG-0041 prohibits the use of air-line respirators in rescue operations.) However, in addition to airborne radioactivity, the areas in which the respirators are likely to be used may also be affected by high dose rates. Since mobility is reduced when wearing SCBAs, it may be more conducive to overall exposure reduction to use iodine sorbent canisters in lieu of SCBAs. For these reasons, the Radiological Controls Coordinator may recommend that BVPS petition the NRC Region I Office of Inspection and Enforcement for permission to assign protection factors for iodine sorbent canisters as specified in 10 CFR 20.1703(b).

8.4 Final Conditions

8.4.1 This procedure will be terminated when initiating factors for any part of this procedure have returned to normal or at the direction of the Radiological Controls Coordinator and/or Emergency Director.

ATTACHMENT A
Page 1 of 4
INSTRUCTIONAL MATERIAL ON THE USE OF POTASSIUM IODIDE

General

Many of the Accident Scenario Reports analyzed in the Beaver Valley Power Station Final Safety Analysis postulate the sudden release of large quantities of radionuclides, which might include a large number of isotopes of radioiodines, into the environment and into plant areas.

When iodines, including radioactive and non-radioactive, are inhaled or ingested, they rapidly accumulate in the thyroid gland. Radioiodines could reside in the thyroid gland long enough to allow localized radiation damage.

In order to minimize the dose to the thyroid, some protective action must be taken to minimize the effects of this uptake. Saturating the thyroid with stable (or non-radioactive) iodine will "Block" the thyroid, preventing the uptake of additional iodine. Iodine ingested or inhaled, but not absorbed by the thyroid will be eliminated from the body in about 48 hours by normal bodily processes. Thus, if stable iodine is administered prior to or immediately after (less than 2 hours) exposure to radioiodine, the radioiodine will not be taken up, but rather, will be eliminated from the body.

Although a variety of chemical substances can block the accumulation of radioiodine in the thyroid gland, potassium iodide appears to be the most suitable:

- The blocking is essentially complete with a dosage of 100 mg iodide. (130mg potassium iodine).
- The onset of blocking occurs at about 30 minutes following administration.
- The decay of the blocking effect is relatively slow.
- The potential for side effects is very low at the dosages involved.

To be completely effective, the potassium iodide should be taken prior to exposure to radioiodine, or very shortly thereafter. Approximately 50% blocking will occur if the iodide is administered within 3 to 4 hours after exposure. Limited benefits are possible up to 12 hours following acute exposure. Because of the potential for recirculation in the body, potassium iodide should be taken for 3 to 10 days following exposure to minimize the uptake of re-circulated radioiodine.

ATTACHMENT A
Page 2 of 4
INSTRUCTIONAL MATERIAL ON THE USE OF POTASSIUM IODIDE

Side Effects

Potassium iodide has been used widely for several years in the treatment of bronchial asthma. Daily oral doses of potassium iodide ranging from 300 to 1200 mg have been administered to patients over a long time. Only the repeated administration of daily doses far in excess of those necessary for thyroid blocking have resulted in significant side effects.

Although side effects are unlikely because of the small dose and short time period that the drug would be used for thyroid blocking, effects noted have been:

- The taking of iodide has been associated with skin rashes, swelling of the salivary glands, and iodism (burning in the throat and mouth, metallic taste, soreness of mouth and gums, symptoms of a head cold, and diarrhea). Also, allergic reactions may produce symptoms such as fever and pains in the joints, or on rare occasions swelling of various parts of the body with severe shortness of breath.

- Overactivity or underactivity of the thyroid gland and/or goiter. Symptoms of thyroid overactivity include nervousness, sweating, and rapid heartbeat.

If side effects are noted, report to your supervisor for possible transfer to a hospital or consultation with a physician. Discontinue use of the potassium iodide. If the heartbeat is rapid and irregular, or if shortness of breath (associated with the iodide) is noted, seek medical attention immediately.

Usage

The only people who should not take potassium iodide are people who know that they are allergic to iodide. (Note: table salt is commonly iodized). You may take potassium iodide even if you are taking medications for a thyroid problem. Pregnant and nursing women and children may take the drug.

Potassium iodide should be taken as soon as possible after you are directed. You will probably be directed to take one dosage every 24-hours for no more than 10 days. Do not take larger doses. Larger doses do not increase the radioiodine protection, but may increase the chance of side effects. Potassium iodide for emergency use will probably be provided in 130 mg tablets (corresponds to 100 mg iodide), but liquid solutions to be added to a glass of water may be used.

ATTACHMENT A
Page 3 of 4
INSTRUCTIONAL MATERIAL ON THE USE OF POTASSIUM IODIDE

References

1. DHEW/FDA Federal Register Note FR-43 No. 232 December 15, 1978 "Potassium Iodide as a Thyroid Blocking Agent in a Radiation Emergency".

2. Commonwealth of Pennsylvania Department of Health Radiation Emergency Response Plan, Appendix J "Patient Information (on the) Use of Saturated Solution of Potassium Iodide (SSKI) for Thyroid Blocking".

3. Patient Package Insert for Thyro-Block, Wallace Laboratories.

ATTACHMENT A
Page 4 of 4
INSTRUCTIONAL MATERIAL ON THE USE OF POTASSIUM IODIDE

POTASSIUM IODIDE ISSUE ROSTER

Issue Approved By: _____ _____
Signature **Job Title**

Date: _____ **Time:** _____

NAME	SOCIAL SECURITY NO.	DOSE (mg)	TIME	DATE

Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-4.1

OFFSITE PROTECTIVE ACTIONS

Document Owner
Manager, Emergency Preparedness

Revision Number	17
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

CONTROLLED
BVPS UNIT 3

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1.0 PURPOSE

1.1 This procedure provides guidance to the Emergency Director/Emergency Recovery Manager for the recommending of offsite protective actions to State and/or County emergency services groups. The Beaver Valley Power Station is required to make recommendations for protective actions as part of the initial notification or follow-up process if the nature and magnitude of the actual or potential radioactivity release warrants protective actions for the public.

2.0 SCOPE

2.1 None

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 Beaver Valley Power Station Emergency Preparedness Plan and Implementing Procedures.

3.1.2 USEPA 520/8-75-001 (and subsequent revisions) "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents".

3.1.3 USEPA 570/9-75-003 "National Interim Primary Drinking Water Regulations".

3.1.4 County and State Emergency Plans.

3.1.5 Title 10 Code of Federal Regulations Part 50, Appendix E.

3.1.6 NUREG-0654/FEMA-REP-1 Draft Supplement 3 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."

3.1.7 NRC Response Technical Manual - 92 Vol. 1, Rev. 2.

3.1.8 EPA Manual of Protective Action Guides and Protective Actions For Nuclear Incidents (EPA 400-R-92-001).

3.1.9 Condition Reports

- CR# 981499
- CR# 00-2221
- CR# 00-2343
- CR# 02-00533
- CR# 02-04054-2
- CR#03-07598-01
- CR#03-08038-01

- CR#03-08714-01

3.1.10 NRC Regulatory Issue Summary 2003-12

3.2 Commitments

3.2.1 None

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 None

4.2 Forms

4.2.1 None

5.0 RESPONSIBILITIES

5.1 Emergency Director/Emergency Recovery Manager

5.1.1 Are the only individuals authorized to recommend offsite protective actions on behalf of Beaver Valley Power Station (BVPS).

5.2 On-duty Shift Manager

5.2.1 In the event protective action decisions are necessary prior to the activation of the Technical Support Center, the on-duty Shift Manager, in his role as Emergency Director, will determine a Protective Action Recommendation, using Attachment A of this procedure, considering plant systems status information from shift personnel and dose projection information from the Radiation Technician (or Health Physics Supervision).

5.3 Technical Support Center Emergency Director

5.3.1 When the Technical Support Center is activated, responsibility for protective action recommendations shifts from the Shift Manager to the Technical Support Center Emergency Director.

5.3.2 The development of a BVPS Protective Action Recommendation requires input from different individuals within the emergency response organization. The Emergency Director/Emergency Recovery Manager may solicit input from the personnel identified below, and/or, from appropriate representatives of the three State governments and the NRC in arriving at his decision. Once the Emergency Director/Emergency Recovery Manager has decided upon a recommendation, it may be relayed to the offsite agencies by designated BVPS emergency response personnel.

5.4 Emergency Recovery Manager

5.4.1 When the Emergency Operations Facility is activated, responsibility for protective action recommendations shifts to the Emergency Recovery Manager with input from the Emergency Director.

5.4.2 The development of a BVPS Protective Action Recommendation requires input from different individuals within the emergency response organization. The Emergency Director/Emergency Recovery Manager may solicit input from the personnel identified below, and/or, from appropriate representatives of the three State governments and the NRC in arriving at his decision. Once the Emergency Director/Emergency Recovery Manager has decided upon a recommendation, it may be relayed to the offsite agencies by designated BVPS emergency response personnel.

5.5 EA & DP Personnel

5.5.1 When the TSC (and/or EOF) is activated, designated EA & DP personnel will perform radiological assessments, will evaluate the need for offsite protective actions based on these assessments, and will provide appropriate recommendations to the Emergency Director/Emergency Recovery Manager for consideration. EA & DP personnel will use the 1/2-EPP-IP-2 series for these determinations.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Precautions

6.1.1 PROTECTIVE ACTION GUIDES -- AIRBORNE RELEASES

NOTE:	If there are simultaneous accidents at BV-1 and BV-2 resulting in release(s) to the environment, dose projections will be required for both units. When determining the utilities' Protective Action Recommendations (PAR) under this condition, the PAR must be determined on the basis of the total dose from both units.

6.1.1.1 The Protective Action Recommendation is based on Attachment A.

6.1.1.2 Based on dose assessments, no protective action should be recommended for incidents involving actual or potential airborne releases of radioactive material which are projected to result in doses to members of the general public that are less than 1 rem to the whole body (TEDE) or 5 rem to the child thyroid (CDE).

HOWEVER, a Protective Action Recommendation may be required due to plant conditions.

NOTE: Per NUREG 0654, Supplement 3, the purpose of Sheltering is to advise the remainder of the 10-mile EPZ to go indoors to monitor Emergency Alert System (EAS) broadcasts.

6.1.1.3 Sheltering or evacuation of members of the general public within the affected area shall be recommended for incidents involving actual or potential airborne releases of radioactive material which are projected to result in doses to members of the general public, greater than or equal to 1 rem to the whole body (TEDE) or 5 rem to the child thyroid (CDE).

6.1.1.4 Attachment A (Offsite Protective Action Recommendation Flowchart) is used to determine a Protective Action Recommendation due to the declaration of a General Emergency. The Protective Action Recommendation is based on an analysis of the fission product barriers via the Critical Safety Functions and/or dose projections.

6.1.1.5 Protective action decisions are primarily based on plant systems status assessments, and secondarily based on dose projections. As time and personnel availability permit, these two types of assessments may be performed simultaneously, and the results of both included in the protective action decision. Any upgrade to the protective action recommendation will be based on dose projections/assessments.

6.1.1.6 If dose assessments have been completed by the time that this decision is made and a larger affected area is indicated, then the larger recommendation shall be made. Do not delay recommendation to await dose projection results.

NOTE: The BVPS Emergency Response Organization makes every attempt to relay the utilities Protective Action Recommendation as quickly as possible. The Initial Notification Conference (INC) Call is the primary means of relaying the recommendation for onshift and TSC/EOF personnel.

The Gold Executive Conference (GEC) is the primary means for TSC/EOF personnel to discuss the recommendation with State and County management. This method provides an immediate way to discuss the Protective Action Recommendation, and ensure that the appropriate State and County Agencies understand the recommendation. The States and Counties also receive the recommendation via commercial phone line as described in Step 8.1.6 or 8.2.7. This step ensures documentation is properly completed and the GEC serves as a redundant notification.

6.1.1.7 Potassium Iodide (KI) may be approved for use by the general public by the States in the 10-mile EPZ. BVPS is required to provide a recommendation to the State/County Agencies for use of KI upon declaration of a General Emergency, or >5 REM Child Thyroid per State Emergency Plans. This guidance is also provided in Attachment A.

6.1.2 PROTECTIVE ACTION GUIDES -- WATERBORNE RELEASES

6.1.2.1 Recommendations shall be made to downstream water treatment plants (per 1/2-EPP-IP-1.1.F02, Emergency Notification Call-List) to secure taking water from the Ohio River for liquid releases projected to exceed the concentration of radionuclide that will cause a dose commitment to any organ of 48 mrem. This is equivalent to 12 times the EPA Primary Drinking Water Standard, as measured at the water treatment plant discharge (to the public distribution system). This is determined in accordance with 1/2-EPP-IP-2.7, "Liquid Release Estimate" or 1/2-EPP-IP-2.7.1, "Liquid Release Estimate - Computer Method".

6.1.3 IDENTIFICATION OF AFFECTED AREAS

NOTE:	From MIDAS capable computer or Met. Shelter. (150' wind direction is used in lieu of ground level wind direction to avoid interference from terrain adjacent to meteorological tower.)

6.1.3.1 The downwind wedge is determined using the 150' and 500' wind directions, from an ARERAS capable computer or from other sources as described in 1/2-EPP-IP-2.6.5.

6.1.3.1.1 Using the 150' and 500' elevation wind directions, identify the downwind sectors using the Downwind Wedge Determination chart on Attachment A.

6.1.3.1.2 The downwind wedge is all of the sectors identified in Step 6.1.3.1.1, including any sectors bracketed by the identified sectors (i.e., upper and lower wedges do not overlap) or if the outer edge of a wedge bisects a sector, include the entire sector.

6.1.3.2 The affected area will resemble a keyhole consisting of a circle with a 90 degree (or larger) wedge shaped sector attached in the downwind direction or depending on meteorological conditions, a circle with no downwind wedge. A downwind wedge determination chart is provided on Attachment A.

6.1.3.3 When using dose projections as a basis for recommending offsite protective actions, projected doses calculated:

- at the EAB apply to the 0-2 mile radial circle;
- at 2 miles apply to the 2-5 mile downwind wedge or radial circle and;
- at 5 miles apply to the 5-10 mile downwind wedge or radial circle.

6.2 Limitations

6.2.1 None

7.0 PREREQUISITES

7.1 None

8.0 PROCEDURE

8.1 TSC/EOF NOT ACTIVATED -- ACTIONS BY EMERGENCY DIRECTOR FOR AIRBORNE RELEASE

NOTE:	Upon declaration of a General Emergency, a Protective Action Recommendation must be provided to the State/County Agencies within 15 minutes of the declaration. This information must also be provided on the Initial Notification Form. The steps, which follow, are performed by the Emergency Director or by his designees. Recommendations by designees will be reviewed and approved by the Emergency Director.

8.1.1 Enter Attachment A with information obtained from shift personnel.

8.1.2 Determine from meteorological parameters, the wind direction and wind speed.

8.1.3 Assess plant parameters to identify or estimate how long the release will continue. If the release has not started yet, estimate when the release will start and how long it will continue, if possible.

8.1.3.1 Release duration due to LOCA's in Containment of <1 hour can be assumed if all ESF's are operable (i.e.: One Full Train of Containment sprays, etc.).

NOTE:	If dose projections are not immediately available, provide the minimum Protective Action Recommendation per Attachment A, and go to Step 8.1.6.

8.1.4 Obtain dose projection data from the Radiation Technician or Health Physics Supervision determined in accordance with 1/2-EPP-IP-2.6, "Environmental Assessment and Dose Projection Controlling Procedure" and its supporting procedures. Do not delay recommending protective actions to wait for offsite monitoring team results. The projected dose for the Exclusion Area Boundary (EAB) should be calculated first, and as necessary, for other distances.

8.1.5 Upgrade the initial protective action recommendation based on dose projections as necessary (refer to Step 8.4).

8.1.6 Direct the Onshift Communications and Records Coordinator (or other shift personnel) to document the recommendation on the Initial Notification Form and to make recommendations to the appropriate onsite personnel and/or offsite authorities in accordance with 1/2-EPP-IP-1.1, "Notifications".

8.2 TSC/EOF ACTIVATED -- ACTION BY EMERGENCY DIRECTOR/EMERGENCY RECOVERY MANAGER FOR AIRBORNE RELEASE

NOTE: Upon declaration of a General Emergency, a Protective Action Recommendation must be provided to the State/County Agencies within 15 minutes of the declaration. This information must also be provided on the Initial Notification Form. The steps, which follow, are performed by the Emergency Director until such time as the EOF is activated, after which, the steps are performed by the Emergency Recovery Manager or by their designees. Recommendations by designees will be reviewed and approved by the Emergency Director/Emergency Recovery Manager (ED/ERM).

8.2.1 Instruct the Assistant to the Emergency Recovery Manager, or designee, to activate the Gold Executive Conference (GEC) Attachment B, and inform the ED/ERM when it is activated.

8.2.2 TSC personnel will evaluate plant systems status, and provide information to the Emergency Director. The Emergency Director (Emergency Recovery Manager when activated) will develop Protective Action Recommendations considering plant systems status, meteorological conditions and dose assessments in conjunction with Attachment A.

NOTE: If dose projections are not immediately available, provide the minimum Protective Action Recommendation per Attachment A, and go to Step 8.1.6.

8.2.3 Direct EA & DP personnel to perform radiological assessments and determine forecast meteorological conditions in conjunction with appropriate 1/2-EPP-IP-2 Series procedures. EA & DP personnel are expected to evaluate potential ground contamination from plume fallout and to make appropriate recommendations for reducing exposure from this source. (Refer to 1/2-EPP-IP-2.6.10, "Ground Contamination Assessment and Protective Actions).

8.2.4 Review the recommendations developed by the TSC and EA & DP personnel.

8.2.5 As time permits, the ED/ERM should discuss the Company recommendation with the three State agencies and with the NRC with the objective of obtaining a consensus recommendation, if possible. These discussions may occur in the EOF or by teleconferences (via the GEC or other communication links, if necessary). In the absence of an agreement, the recommendation shall be based on the BVPS staff's best evaluation of the plant conditions or dose assessment information.

8.2.6 If the minimum recommendation is being provided, go to Step 8.2.7. If dose projections indicate upgrading the recommendation, refer to Step 8.4, if not continue.

8.2.7 Direct the Communications and Records Coordinator to document the recommendation on the Initial Notification Form and to make recommendations to the appropriate onsite personnel and/or offsite authorities in accordance with 1/2-EPP-IP-1.1, "Notifications".

8.2.8 Notify FirstEnergy Corporate Communications personnel of the recommendation, but direct them not to include the content of the Company's recommendation in any news announcements. Such announcements should only indicate that BVPS has made a recommendation to offsite authorities and that these agencies are considering the recommendation. This prohibition is intended to prevent confusion that might result if the action implemented differs from that recommended by BVPS.

8.3 WATERBORNE RELEASE

8.3.1 Using Attachment C, notify downstream Water Treatment Plants and other Agencies as appropriate, of any recommendations as soon as possible, via the Communications & Records Coordinator.

8.4 UPGRADING PROTECTIVE ACTION RECOMMENDATIONS

NOTE:	The initial Protective Action Recommendation is based on operational assessments. Any upgrades to the Recommendation will be based on dose projections exceeding the EPA PAG's at greater than 2 miles, or meteorological conditions.

8.4.1 Dose assessments should be performed in conjunction with operational assessments, if possible.

8.4.2 A Protective Action Recommendation developed without dose assessment input (Attachment A) is the minimum initial recommendation and shall be instituted immediately, unless:

- available dose projections indicate a more restrictive Protective Action Recommendation (e.g.: dose projection at 2 miles exceeds the EPA PAG's) or,
- the release has not started, the start time is not known AND the meteorological forecast for a consistent wind direction is not known. In this case the determination of a "downwind wedge" is meaningless since the wind direction may change prior to the release. (Example: For the evacuate 2 mile, 360° and 5 mile downwind wedge for this condition, a Protective Action Recommendation of 0-5 mile evacuation, 360 degrees would be required.). Refer to Attachment A.

8.4.3 In the event that EA&DP dose projections indicate an upgrade of the Protective Action Recommendation from Attachment A (i.e.: dose projections at 2 miles exceed the EPA PAG's, etc.), the Emergency Director (Emergency Recovery Manager, if activated) SHALL:

8.4.3.1 Discuss the upgraded Protective Action Recommendation, and its dose projection basis, with the three State agencies and with the NRC with the objective of obtaining a consensus recommendation, if possible.

8.4.3.2 Discussions may occur in the EOF or by teleconferences (via the GEC or other communication links, if necessary).

8.4.3.3 Provide PAR's beyond the 10-mile EPZ, if the projected dose based on field measurement data would exceed the EPA PAG's beyond this distance.

8.4.3.3.1 If necessary, the evacuation area should be expanded in 5-mile increments such that the EPA PAG's are not expected to be exceeded outside the recommended radius (e.g., if PAG's are expected to be reached at 17 miles, the PAR would include 20 miles).

8.4.3.4 In the absence of an agreement, the recommendation shall be based on the BVPS staff's best evaluation of the plant conditions or dose assessment information.

8.4.4 If a PAR is upgraded, or changed due to plant/radiological/meteorological conditions, and it affects an initial or previous PAR, an initial evacuation recommendation of an area over rides an upgraded/changed shelter recommendation for the same area.

8.4.5 Notify the Offsite Agencies of the Upgraded PAR by performing the following:

Note:	An Upgraded PAR does not change emergency classification status. The Upgraded PAR determination must be completed within 15 minutes of the assessment being available (i.e.: dose projection, change in wind direction ,etc.) and must be provided to the appropriate offsite agencies in accordance with 1/2-EPP-IP-1.1 "Notifications".

8.4.5.1 Complete a new Initial Notification Form using the information from the General Emergency declaration, except PAR and meteorological information.

8.4.5.2 Complete the Initial Notification Form using the Upgraded PAR information, and Meteorological Data.

8.4.5.3 Sign, date and time the Initial Notification Form for the Upgraded PAR.

8.4.5.4 Provide the Initial Notification Form to the TSC Communications & Records Coordinator to transmit to appropriate offsite agencies in accordance with 1/2-EPP-IP-1.1 "Notifications".

8.5 Final Conditions

8.5.1 All appropriate agencies have been notified of the Beaver Valley Power Station Offsite Protective Action Recommendation.

8.5.2 The GEC has been relinquished to the State and County agencies for coordination of siren activation or other discussions.

8.5.3 The emergency condition has been terminated and recovery has begun.

8.5.4 All Emergency Termination Notifications per 1/2-EPP-IP-1.1 have been completed.

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OFFSITE PROTECTIVE ACTION

GENERAL EMERGENCY DECLARATION

Continue assessments. Expand the affected area if subsequent assessments, including the results of field measurements, indicates the need. *If a new Upgraded PAR is identified, an Initial Notification Form SHALL be completed and appropriate offsite agencies notified within 15 minutes (this does not change the emergency classification status).*

Obtain the following information:

1)	35' wind speed	_____ MPH
2)	150' wind direction	_____ degrees
3)	500' wind direction	_____ degrees

IS AT LEAST ONE OF THE FOLLOWING TRUE?

- 35' wind speed LESS than 2 MPH (or unavailable)?
- Is either the 150' or 500' wind directions unavailable?
- The difference between the 150' and 500' wind directions is ≥ 165 and ≤ 195 degrees? (opposite wind directions) or unavailable?
- Release has started or is imminent. (within one hour)
- Release transport will span sunrise or sunset hours.

TSC/EOF ONLY:

- NWS forecast indicates a weather front will pass thru EPZ during release transport.

YES

NO

Dose projection results available (FSAR, monitor data, etc.)?

YES

Projected dose at EAB >1 REM TEDE or >5 REM CDE

YES

NO

NO

Recommend EVACUATE 0-5 miles, 360 degrees AND SHELTER the remainder of the 10 mile EPZ AND advise the general public to administer KI in accordance with the State Plan. *(Minimum Recommendation)*

Dose projection results available (FSAR, monitor data, etc.)?

YES

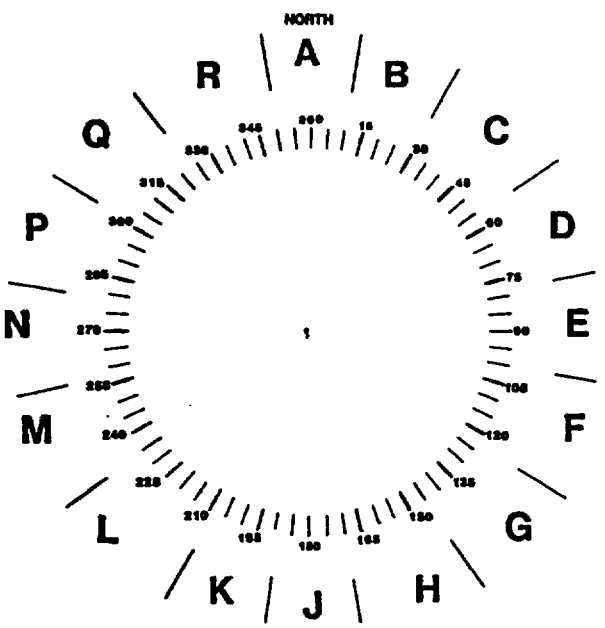
NO

Projected dose at EAB >1 REM TEDE or >5 REM CDE

YES

NO

Recommend EVACUATE 2 miles, 360 degrees and 5 mile downwind wedge AND SHELTER the remainder of the 10 mile EPZ. AND advise the general public to administer KI in accordance with the State Plan. *(Minimum Recommendation)*



DOWNWIND WEDGE DETERMINATION

1) Obtain 150' and 500' Wind Direction
2) Using each wind direction, determine Sectors per the Chart below
3) Combine Sectors for PAR

Sector	Wind From	Downwind Wedge Sectors
A	350 - 11	GHJKL
B	12 - 34	HJKLM
C	35 - 56	JKLMN
D	57 - 79	KLMNP
E	80 -101	LMNPQ
F	102 -124	MNPQR
G	125 -146	NPQRA
H	147 -169	PQRAB
J	170 -191	QRABC
K	192 -214	RABCD
L	215 -236	ABCDE
M	237 -259	BCDEF
N	260 -281	CDEFG
P	282 -304	DEFGH
Q	305 -326	EFGHJ
R	327 -349	FGHJK

RECOMMENDATION FLOWCHART

Final PAR Approval

ED/ERM Name Date/Time

TEDE is less than 10 REM at EAB.

YES

Release has started, or is expected to start within one hour.

YES

Projected release duration is less than one hour (i.e.: LOCA with at least one full train of sprays.)

YES

Recommend SHELTER for the 0-10 mile EPZ.

NO

NO

NO

Projected dose at 5 miles:

>1 REM TEDE
or
>5 REM CDE

YES

Recommend EVACUATE 0-10 miles, 360 degrees. AND advise the general public to administer KI in accordance with the State Plan,. *If projected dose based on field measurements is expected to exceed the PAG's beyond 10 miles, refer to Step E.4.3 of this procedure.*

NO

Projected dose at 2 miles
>1 REM TEDE
or
>5 REM CDE

YES

Recommend EVACUATE 0-5 miles, 360 degrees AND SHELTER the remainder of the 10 mile EPZ AND advise the general public to administer KI in accordance with the State Plan.

NO

Recommend EVACUATE
0-2 miles, 360 degrees, AND SHELTER the remainder of the 10 mile EPZ.
AND advise the general public to administer KI in accordance with the State Plan.

TEDE is less than 10 REM at EAB.

YES

Release has started, or expected to start within one hour.

YES

Projected release duration is less than one hour (i.e.: LOCA with at least one full train of sprays.)

YES

Recommend SHELTER for the 0-10 mile EPZ.

NO

NO

NO

Projected dose at 5 miles
>1 REM TEDE
or
>5 REM CDE

YES

Recommend EVACUATE 2 miles, 360 degrees and 10 mile downwind wedge AND SHELTER the remainder of the 10 mile EPZ.
AND advise the general public to administer KI in accordance with the State Plan.
If projected dose based on field measurements is expected to exceed the PAG's beyond 10 miles, refer to Step E.4.3 of this procedure.

NO

Projected dose at 2 miles
>1 REM TEDE
or
>5 REM CDE

YES

Recommend EVACUATE
2 miles, 360 degrees and
5 mile downwind wedge
AND SHELTER
the remainder of the 10 mile EPZ.
AND advise the general public to administer KI in accordance with the State Plan.

NO

Recommend EVACUATE
0-2 miles, 360 degrees, AND SHELTER the remainder of the 10 mile EPZ.
AND advise the general public to administer KI in accordance with the State Plan.

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ATTACHMENT B
Page 1 of 3
A5.715FZ

ACTIVATION OF THE GOLD EXECUTIVE CONFERENCE (GEC) CALL INSTRUCTIONS (EXAMPLE)

NOTE:	The Gold Executive Conference (GEC) is a function of the Beaver Valley Emergency Response System (BVERS). The GEC is the method that the On-Call Emergency Response Organization (ERO), particularly the Emergency Director, or Emergency/Recovery Manager if activated, shall use to establish a conference call for the purpose of discussing a Protective Action Recommendation (PAR) with the Offsite Agencies. This call shall be initiated by the Assistant to the E/RM.

NOTE:	This procedure should be implemented prior to, or in anticipation of, a General Emergency declaration to ensure timely discussion of plant conditions with the State and County agencies.

A. INITIATING GEC

1.0 Obtain the PASSCODE and SCENARIO NUMBER from the Assistant to the E/RM Workbook in the EOF to activate the Gold Executive Conference (GEC) call.

2.0 From a touch tone phone, dial 9-724-643-4370 to access the Beaver Valley Emergency Response System (BVERS) and do the following:

2.1 **IMMEDIATELY** enter the **BVERS PASSCODE XXXX** when system answers.

2.1.1 If GEC is unavailable, go to Section B of this Attachment, otherwise, continue with this Section.

2.2 When prompted, enter **SCENARIO NUMBER XXXX**.

2.3 When prompted, verify the **SCENARIO NUMBER** by pressing **9** for **YES OR 6** for **NO**.

2.4 When prompted, "You will cue **SCENARIO XXXX**. It will now be sent. Are you sure this is what you want to do?" Press **9** for **YES OR 6** for **NO**.

2.5 Hang up.

ATTACHMENT B
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ACTIVATION OF THE GOLD EXECUTIVE CONFERENCE (GEC) CALL INSTRUCTIONS
(EXAMPLE)

NOTE:	You must dial the prefix "9" to obtain an outside line to enter the GEC call. This number is NOT a PAX extension.

3.0 To enter the GEC call:

3.1 From a touch tone phone, dial "9-724-682-1900".

3.2 At the voice prompt "Please enter your passcode followed by the "#" sign" enter the **PASSCODE XXXX #.**

3.3 There will be a short delay while the system connects the Offsite Agencies into the conference call. A "Beep" will be heard as each Agency enters the GEC call.

4.0 Upon hearing an individual enter the Conference Bridge:

4.1 State the following:

"This is _____ at Beaver Valley
NAME

Power Station. Please remain on the line for a roll-call and an update.

(log individual names and time contacted below):

	NAME	TIME
BCEMA		
CCEMA		
HCOES		
PEMA		
OEMA		
WVOES		
PA DEP/BRP		

NAME: _____ DATE: _____

ATTACHMENT B
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ACTIVATION OF THE GOLD EXECUTIVE CONFERENCE (GEC) CALL INSTRUCTIONS (EXAMPLE)

NOTE:	Any person disconnected, or any additional personnel, may enter the GEC at any time, once the system is activated, by dialing 724-682-1900 and providing the GEC PASSCODE.

5.0 The Assistant to the E/RM shall then turnover the phone to the ED, or E/RM if activated, to provide the PAR.

6.0 If an Offsite Agency does not respond, call the agency using the contact phone number from 1/2-EPP-IP-1.1, "Notifications", and request they call into the GEC by dialing 724-682-1900 and providing the State/County GEC PASSCODE.

7.0 Upon providing the PAR, the ED, or E/RM if activated, shall answer any questions from the Offsite Agencies then turn over command of the GEC to the Offsite Agencies for discussions and siren coordination.

B. **GEC UNAVAILABLE**

1.0 If GEC is unavailable, utilize commercial lines.

1.1 Contact the State/County agencies per Form 1/2-EPP-IP-1.1.F02 "Emergency Notification Call-List" and provide the PAR.

1.2 PA DEP/BRP may be contacted using the "Blue" Hotline in the EOF.

2.0 If commercial phone systems are unavailable, the BVPS Radio System is the alternate method for providing the PARs to the Counties. 1/2-EPP-IP-1.2, Attachment C (Step 6.0) provides direction for using the radio system. The Counties should then contact their respective States.

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ATTACHMENT C
Page 1 of 3
OFFSITE LIQUID RADIOACTIVE RELEASE RECOMMENDATION INSTRUCTIONS

NOTE:	A recommendation to downstream Water Treatment Plants (WTP) to stop the intake of water from the Ohio River does not isolate water from the general public. Downstream WTPs may suspend drawing water from the river for processing without affecting public water supply.

NOTE:	This is a recommendation to the WTP, not a Protective Action Recommendation for evacuation or shelter of the public, and should not be included as a Protective Action Recommendation on the Initial Notification Form, or Follow-up Notification Form.

NOTE:	The EA&DP Coordinator performs Steps 1-3, and the Communications & Records Coordinator performs Step 4.

1.0 The EA&DP Coordinator shall obtain data in accordance with 1/2-EPP-IP-2.7, "Liquid Release Estimate" or 1/2-EPP-IP-2.7.1, "Liquid Release Estimate - Computer Method".

2.0 Per dose projections, for liquid releases corresponding to > 12 times EPA MPC, first notify the Midland Water Treatment Plant and recommend the Plant stop taking water from the Ohio River until notified by the Pa. DEP/BRP by performing the following:

2.1 Notify the Emergency Director (Emergency Recovery Manager, if activated) of the need to recommend to the Midland Water Treatment Plant to stop their intake of water due to a radioactive liquid release to the Ohio River and they should be notified as soon as possible.

2.2 Obtain approval from the Emergency Director (Emergency Recovery Manager if activated) to notify the Water Treatment Plant of the recommendation.
ED/ERM (name)_____ (time)_____

2.3 Contact the Communications & Records Coordinator to perform offsite notifications per Step 4 of this Attachment as soon as possible. (Assist in completing the Follow-up Notification Form section for LIQUID release as necessary).

2.4 Provide a copy of this Attachment to the Communication & Records Coordinator, and inform them of updates, as necessary.

ATTACHMENT C
Page 2 of 3
OFFSITE LIQUID RADIOACTIVE RELEASE RECOMMENDATION INSTRUCTIONS

3.0 If actual sample analyses at Midland indicates activity in excess of EPA limits, additional sampling should be performed at East Liverpool, Ohio, and Chester, WV and a similar recommendation made for these Plants.

NOTE: The Ohio EPA will determine when East Liverpool can resume taking water from the Ohio River, and the WV Bureau of Public Health will determine when Chester can resume taking water from the Ohio River.

3.1 Notify the Communications & Records Coordinator to follow the same protocol in Step 4 for contacting these Water Treatment Plants.

4.0 The Communications & Records Coordinator shall perform the following as soon as possible after being notified of a radioactive liquid release to the Ohio River by the EA&DP Coordinator:

4.1 Notify the Organizations below, using 1/2-EPP-IP-1.1.F02, Emergency Notification Call-List phone numbers.

4.1.1 For each Organization to notify per the EA&DP Coordinator:

Inform them that "This is the Beaver Valley Power Station Communicator (Name) _____. There has been a liquid radioactive release to the Ohio River. BVPS is recommending that the Midland / East Liverpool / Chester Water Treatment Plant stop intake of water from the Ohio River until contacted by your State. BVPS is also contacting the State about the liquid radioactive release. May I please have your name (enter below)?

*NOTIFY	ORGANIZATION	CONTACT NAME	TIME	INIT.
Yes	**Midland Water Treatment Plant**			
	Beaver County EMA (9-1-1 Center)			
	PEMA			

* EA&DP Coordinator to circle appropriate Organizations to notify per dose projection results/sampling.

4.1.2 Answer appropriate questions, and thank them for their cooperation.

ATTACHMENT C
Page 3 of 3
OFFSITE LIQUID RADIOACTIVE RELEASE RECOMMENDATION INSTRUCTIONS

Contact the following Organizations ONLY upon notification by the EA&DP Coordinator.

*NOTIFY	ORGANIZATION	CONTACT NAME	TIME	INIT.
Yes / No	**East Liverpool Water Treatment Plant**			
	Columbiana County EMA			
	Ohio EMA			
Yes / No	**Chester Water Treatment Plant**			
	Hancock County OES			
	West Virginia OES			

* EA&DP Coordinator to circle appropriate Organizations to notify per dose projection results/sampling

4.1.3 Answer appropriate questions, and thank them for their cooperation.

5.0 Complete 1/2-EPP-IP-1.1.F02, Emergency Notification Call-List, for Liquid Radioactive Releases, notify additional offsite authorities including the Coast Guard, the US Corp. of Engineers, etc.

Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-5.3

EMERGENCY EXPOSURE CRITERIA AND CONTROL

Document Owner
Manager, Emergency Preparedness

Revision Number	9
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

CONTROLLED
BVPS UNIT 3

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1.0 PURPOSE

1.1 This procedure provides guidance and criteria for dose limitation in situations where it may be necessary for individuals to exceed established exposure limits to save a life or to minimize the consequences of an accident. Authorization for such exposures is provided by 10 CFR 50.47(B)(11).

2.0 SCOPE

2.1 Accident Exposure:

2.1.1 Exposure to radiation or radioactive materials that results from an unexpected event. Accident exposure refers to the immediate consequences of the unexpected event and the immediate corrective/mitigative actions of personnel present at the scene when the event occurred.

2.1.2 Accident exposures are not controlled by the Radiation Protection (RP) procedures or the Emergency Preparedness Plan (EPP), but may be reportable to the NRC under 10 CFR 20 and/or 10 CFR 50.72.

2.2 Emergency Exposure:

2.2.1 Exposure to radiation or radioactive materials that is the result of actions taken in response to an emergency condition classified and declared pursuant to the BVPS Emergency Preparedness Plan. Emergency exposure refers to radiation exposure caused by those assessment, corrective, and mitigative actions that are required on an immediate basis to save human lives, or to prevent or minimize the collective exposure of large populations.

2.2.2 Such activities are directed by the Control Room or by the TSC/EOF. Planned Special Exposures (see Step 2.4) are not considered emergency exposures.

2.3 Life Saving Action:

2.3.1 Those actions related to the search and rescue of injured persons.

2.4 Planned Special Exposure (PSE):

2.4.1 As defined in 10 CFR 20, an infrequent exposure to radiation, separate from and in addition to the annual dose limits.

2.4.2 The RP procedures delineates requirements to be met in classifying an exposure as a PSE. PSEs might be warranted in the recovery phase. However, it is unlikely that the PSE requirements could be met during the initial phases of the emergency.

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 Beaver Valley Power Station Emergency Preparedness Plan and Implementing Procedures.

3.1.2 ICRP Publication 26, "Recommendation of the International Commission on Radiological Protection"

3.1.3 ICRP Publication 28, "The Principals and General Procedures for Handling Emergency and Accidental Exposures of Workers"

3.1.4 EPP 400-R-92/01 (and subsequent revisions), "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents"

3.1.5 Title 10, Code of Federal Regulations Part 20

3.1.6 Title 10, Code of Federal Regulations Part 50

3.1.7 NUREG-0654/FEMA-REP-1 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."

3.1.8 BVPS Health Physics Manual

3.1.9 NUMARC, Implementation of the New EPA Protective Action Guides in Existing Emergency Programs

3.2 Commitments

3.2.1 None

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 Attachment B, Emergency Exposure Authorization Form

4.2 Forms

4.2.1 None

5.0 RESPONSIBILITIES

5.1 Emergency Director

5.1.1 Has the responsibility and authority to ensure that the radiation exposure of personnel performing functions necessary to contend with the emergency condition, are maintained As Low As Reasonably Achievable (ALARA) and in keeping with the provisions of this EPP/IP. The Emergency Director is the only individual who may authorize dose extensions in excess of 10 CFR 20.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Precautions

6.1.1 Emergency exposure limits apply only to BVPS and contractor personnel who are qualified as radiation workers at the Beaver Valley Power Station and have been issued BVPS dosimetry.

6.1.2 The establishment of these emergency exposure controls in no manner suggests that the exposures are acceptable. Although 10 CFR 50.47(b)(11) requires that the EPP contain emergency exposure control measures, any exposure greater than 10 CFR 20 provisions is reportable to the NRC.

6.2 Limitations

6.2.1 All emergency exposure extensions are subject to the following conditions:

6.2.1.1 All exposures shall be maintained such that the TEDE is as low as reasonably achievable during emergencies, noting that it may be necessary to tradeoff individual personal exposure against collective population exposure offsite, or in the interest of saving human lives.

6.2.1.2 Emergency exposure limits apply only during emergencies declared pursuant to the Emergency Preparedness Plan.

6.2.1.3 The Emergency Director, with the advice of the Radiological Controls Coordinator, shall approve all emergency exposures in excess of 10 CFR 20 limits. This approval shall be documented. However, the approval may be relayed verbally and documented later.

6.2.1.4 Emergency Exposure limits apply only to BVPS and contractor personnel who are qualified as radiation workers at the Beaver Valley Power Station and have been issued BVPS dosimeters.

6.2.1.5 Personnel who have received previous accident or emergency exposure in excess of 25 rem TEDE shall not participate in further emergency exposure situations.

6.2.1.5.1 Since accident and emergency exposures are not required to be included in personnel exposure histories, it may be necessary to interview contractor and visitor personnel regarding such exposures.

6.2.1.6 Personnel, who have declared pregnancy in accordance with the RP procedures, shall not participate in emergency exposure situations.

6.2.1.7 With the exception of emergency exposures in excess of 25 rem TEDE, participation in emergency exposure situations need not be voluntary on the part of the individual emergency worker.

6.2.1.8 The dose of personnel authorized to receive emergency exposures shall be monitored and recorded as provided in the RP procedures.

6.2.2 Exposure Limitation

6.2.2.1 Except as provided below, control of radiation exposures during an emergency shall be governed by the RP procedures.

6.2.2.2 The exposure of emergency response organization personnel should be maintained such that routine radiation exposure limits and administrative controls contained within the RP procedures are met. These routine exposure limits may be exceeded during the performance of emergency activities identified in steps 6.2.2.3, 6.2.2.4 and 6.2.2.5, provided that the conditions of Step 6.2.1 are met.

6.2.2.3 For activities performed on an immediate basis to prevent the failure of equipment necessary to protect the public health and safety, the TEDE of personnel directly involved shall not exceed 10 rem. This limit is applicable only if actions establishing adequate or equivalent protection, with a lower dose consequence, are not readily available.

6.2.2.4 For activities necessary on an immediate basis (1) to save human life, (2) to restore equipment necessary to maintain critical safety functions or to establish and maintain a safe shutdown, or (3) to prevent or mitigate a release of radioactivity to the environment for which offsite protective measures may be required, the TEDE of personnel directly involved shall not exceed 25 rem. This limit is applicable only if actions establishing adequate or equivalent protection, with less dose, are not readily available.

6.2.2.5 For activities necessary on an immediate basis (1) to save human life, (2) to restore equipment necessary to maintain critical safety functions or to establish and maintain a safe shutdown, or (3) to prevent or mitigate a release of radioactivity to the environment for which offsite protective measures may be required, the TEDE of personnel directly involved may exceed 25 rem, provided:

6.2.2.5.1 This limit is applicable only if actions establishing adequate or equivalent protection, with less dose, are not readily available, and,

6.2.2.5.2 Personnel assigned to these activities shall be volunteers, and,

6.2.2.5.3 Personnel assigned to these activities shall be briefed on, and understand, the risks associated with the estimated radiation exposure. For life saving activities, this briefing shall include a discussion on the probability of a successful rescue, and,

6.2.2.5.4 Concurrence of the Senior Vice President, or designee, shall be obtained for any exposure projected to exceed 75 rem TEDE.

6.2.2.6 In addition to the TEDE limits established above, the dose equivalent to the lens of the eye shall be limited to three (3x) the limits specified in Step 6.2.2.3 and 6.2.2.4 above. The CDE to any organ (including the skin and body extremities) shall be limited to ten (10x) the limits specified in Steps 6.2.2.3 and 6.2.2.4 above.

6.2.3 The internal exposure of BVPS emergency workers performing activities in the environment (i.e., outside plant buildings) is monitored and controlled as follows:

6.2.3.1 Monitoring of internal exposure and assessment of CEDE may be waived for BVPS field monitoring team members under the following conditions:

6.2.3.1.1 The emergency involves a substantial core melt sequences with actual or potential early containment failure or bypass, and,

6.2.3.1.2 The release plume is present in the areas where the personnel are assigned, and,

6.2.3.1.3 An evacuation of the public has been ordered, but is incomplete, and,

6.2.3.1.4 The field monitoring team is assigned tasks out-of-doors associated with quantifying an unmonitored release from the plant in support of decisions related to the need for extending protective measures, and,

6.2.3.1.5 If the DDE is likely to exceed 5 rem (i.e., assumes DDE to TEDE ratio of 5) for the duration of the exposure, personnel involved shall be volunteers, and, shall have been briefed on, and understand, the risks associated with the estimated radiation exposure and the uncertainty regarding the unmonitored CEDE, and,

6.2.3.1.6 If the DDE is likely to exceed 5 rem (i.e., assumes DDE to TEDE ratio of 5) potassium iodide shall be issued, and,

6.2.3.1.7 Conditions for emergency exposure delineated in Step 6.2.1 apply to these individuals.

6.2.3.2 Monitoring of internal exposure and assessment of CEDE of emergency personnel working out-of-doors shall be accomplished by establishing dosimetry administrative guides set at that value of DDE that would maintain the sum of the DDE and CEDE below limits specified in Step 6.2.2. In addition:

6.2.3.2.1 These adjustments should be made using EDE to TEDE ratios determined from dose projections performed during the emergency using actual release source terms, if available. Ratios determined prior to the release from default source terms may be useful as bounding values.

6.2.3.2.2 These dosimeter administrative guides shall be adjusted on the basis of actual field monitoring data, as these data become available, and,

6.2.3.2.3 Conditions for emergency exposure delineated in Step 6.2.1 apply to these individuals.

6.2.3.3 Monitoring of internal exposure and assessment of CEDE is not required if the release has not started, or if plume is no longer present, as this reduces the potential for uptake such that CEDE is negligible. In this case, emergency worker administrative guides are based on DDE.

6.2.4 Post-Exposure Evaluations

6.2.4.1 Personnel receiving emergency or accident exposures should be restricted from further occupational exposure pending the outcome of exposure evaluations and, if necessary, medical surveillance.

6.2.4.2 An exposure evaluation shall be performed to determine the individual dose. This dose may include assessment of the following dose quantities as applicable to the exposure situation: SDE, DE, DDE, ALI, CDE, CEDE, and TEDE. This evaluation should be based on observed area dose rates, airborne activity measurements, and dosimetry results. This evaluation shall be documented in an appropriate format and filed with the individual's exposure records. Appropriate reports shall be submitted to the Onsite Safety Committee and the USNRC.

6.2.4.3 If an individual's external dose exceeds 10 rem DDE, 30 rem dose equivalent to the lens of eye, and/or 100 rem dose equivalent skin or an extremity, the details of the exposure incident shall be brought to the attention of a physician. The physician shall determine the need, extent, and nature of any clinical, biological, or biochemical examinations.

6.2.4.4 If an individual's external dose exceeds 25 rem DDE, 150 rem dose equivalent to the lens of eye, and/or 250 rem dose equivalent skin or an extremity, the individual shall be examined by a physician. The physician shall determine the need, extent, and nature of any clinical, biological, or biochemical examinations, or necessary medical surveillance.

6.2.4.5 If an individual's intake exceeds 1.0 ALI, the details of the exposure incident shall be brought to the attention of a physician. The physician shall determine the need, extent, and nature of any clinical, biological, biochemical examinations, or necessary medical treatment.

7.0 PREREQUISITES

7.1 An emergency condition at the Beaver Valley Power Station has resulted in radiation levels within the Station greatly in excess of normal levels, which require special considerations for exposure control.

8.0 PROCEDURE

8.1 In the event emergency exposure is necessary, the following actions should be performed. Although it is preferable to perform and document these steps prior to the exposure, if necessary the Emergency Director may verbally authorize the increased exposure and complete the documentation at a later time.

8.1.1 Per Attachment A, determine the appropriate Emergency Exposure Authorization Limit.

8.1.2 Complete Section A of the Emergency Exposure Authorization Form (Attachment B). Line 6 of the form must be signed by the Emergency Director.

8.1.3 The individual to receive the increased exposure will complete Section B.

8.1.4 The individual will be briefed on the radiological and other conditions in the area (or expected in the area), the tasks to be performed, ALARA measures applicable to the task, and contingency measures, prior to entry to the affected area. Included in this briefing shall be a discussion of the biological risks associated with the exposure to be incurred.

8.1.5 The individual performs the assigned tasks.

8.1.6 Following the exposure, the Radiological Controls Coordinator, or designee, will complete and sign Section C and D of the Emergency Exposure Authorization Form.

8.2 Final Conditions

8.2.1 This procedure will be terminated when all sections of Attachment B, "Emergency Exposure Authorization Form" have been completed and/or assignments are made for necessary exposure reports. The original of Attachment B should be filed in the individual's personnel exposure history records and a copy sent to the Manager, EPP for inclusion in event records.

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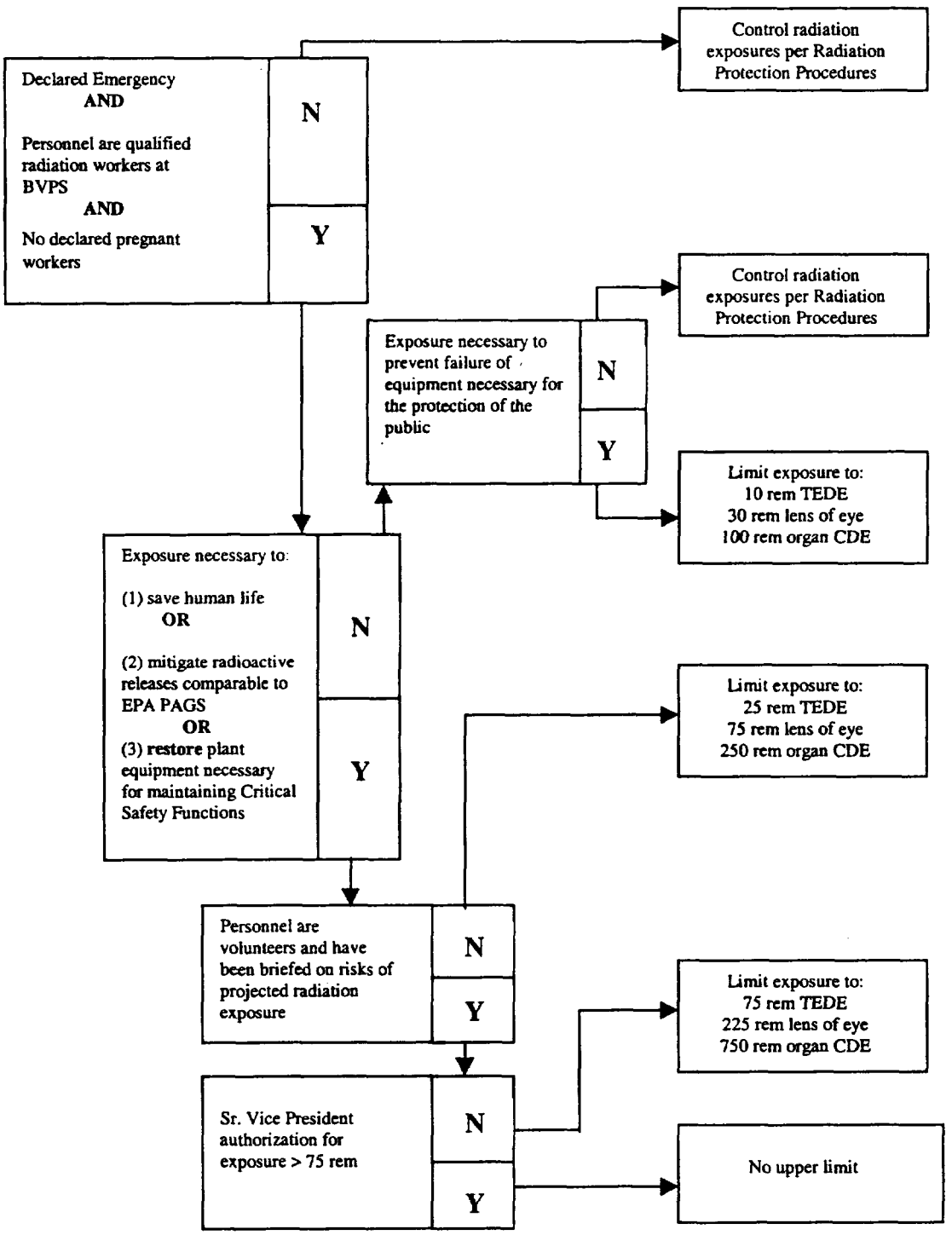
ATTACHMENT A
Page 1 of 1
EMERGENCY EXPOSURE AUTHORIZATION LIMITS



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ATTACHMENT B
Page 1 of 3
A5.715G

EMERGENCY EXPOSURE AUTHORIZATION FORM

SECTION A

1. Name (to receive exposure): _____

   Soc. Sec. No.: _____

2. Individual Badge Number: _____ Employer/BVPS Dept.: _____

3. Task(s) to be Performed: _____

   _____

4. Date of Authorization: _____ Authorized Limit: _____

5. Conditions:

   ___ Individual is a volunteer or professional rescue person for exposure >25 rem.

   ___ Individual is broadly familiar with radiological consequences of exposure.

   ___ Individual has not declared pregnancy.

   ___ Individual has not received a previous emergency exposure in excess of 25 rem TEDE.

   ___ Dose rates in area known/measurable.

   ___ Life Saving Action?

   ___ Corrective action that will <u>prevent failure</u> of equipment necessary for public health & safety?

   ___ Corrective action that will <u>restore</u> equipment necessary for maintaining critical safety functions?

6. Emergency Director: _____ Date: _____
   (Signature)

ATTACHMENT B
Page 2 of 3
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EMERGENCY EXPOSURE AUTHORIZATION FORM

SECTION B

I have been briefed in the radiological consequences of the proposed emergency exposure, and I have volunteered to perform the emergency measures during which I will receive the emergency exposure.

7. Signature: _____ Date: _____

_____

SECTION C (Attach Exposure and Medical Evaluations)

1. Dose equivalent assigned for entry: _____

_____

_____

2. TLD/Dosimeter Results: _____

_____

3. Bioassay Results: _____

_____

_____

4. Medical Evaluation/Action: _____

_____

_____

_____

Doctor _____

5. Radiological Control Coordinator: _____ Date: _____

_____

ATTACHMENT B
Page 3 of 3
EMERGENCY EXPOSURE AUTHORIZATION FORM

A5.715G

SECTION D

1. Disposition (Allow additional exposure, restricted access, etc.)

_____

_____

_____

_____

_____

2. Radiological Control Coordinator _____ Date: _____

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Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-7.1

EMERGENCY EQUIPMENT INVENTORY AND MAINTENANCE PROCEDURE

Document Owner
Manager, Emergency Preparedness

Revision Number	15
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

CONTROLLED
BVPS UNIT 3

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ATTACHMENT A EMERGENCY EQUIPMENT INVENTORY TYPE/LOCATIONS 7

1.0 PURPOSE

1.1 This procedure provides instructions for maintaining and inventorying emergency cabinets and equipment.

2.0 SCOPE

2.1 Inventories are performed quarterly (routine inventory) or after each applicable equipment usage (drills, exercises, etc.)

2.2 Monthly respirator inspections of respirators maintained for emergency preparedness SHALL be performed and documented by Radiation Protection using appropriate Radiation Protection procedures.

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 Beaver Valley Power Station Radiation Protection Procedures

3.1.2 Beaver Valley Power Station Emergency Preparedness Plan

3.1.3 Title 10, Code of Federal Regulation Part 50

3.1.4 Condition Reports

- 972288
- 02-06579
- 02-06579
- 03-02034

3.2 Commitments

3.2.1 BVPS Unit 1 Licensing Commitment 2.C (7) (CATS A970524P)

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 Records generated by this procedure are listed in the Forms section.

4.2 Forms

4.2.1 Form, 1/2-EPP-IP-7.1.F01, Emergency Inventory Checklist – Control Room Emergency Cabinet No. 1

4.2.2 Form, 1/2-EPP-IP-7.1.F02, Emergency Inventory Checklist – Water Monitoring Team Kit

4.2.3 Form, 1/2-EPP-IP-7.1.F03, Emergency Inventory Checklist – Field Monitoring Team Kit No.

4.2.4 Form, 1/2-EPP-IP-7.1.F04, Emergency Inventory Checklist – Offsite Communication Equipment

4.2.5 Form, 1/2-EPP-IP-7.1.F05, Emergency Inventory Checklist – Alternate EOF Emergency Cabinet No. 2

4.2.6 Form, 1/2-EPP-IP-7.1.F06, Emergency Inventory Checklist – SPING (U1) Emergency Sampling Kit

4.2.7 Form, 1/2-EPP-IP-7.1.F07, Emergency Inventory Checklist – WRGM (U2) Emergency Sampling Kit

4.2.8 Form, 1/2-EPP-IP-7.1.F08, Emergency Inventory Checklist – Near Site Assembly Areas

4.2.9 Form, 1/2-EPP-IP-7.1.F09, Emergency Inventory Checklist – Primary Assembly Areas

4.2.10 Form, 1/2-EPP-IP-7.1.F10, Emergency Inventory Checklist – Technical Support Center (TSC) Cabinet No. 1, 2 and 3

4.2.11 Form, 1/2-EPP-IP-7.1.F11, Emergency Inventory Checklist – Emergency Operations Facility (EOF) Cabinet No. 1, 2 and Cabinet No.3 – Environmental Assessment & Dose Projection (EA&DP)

4.2.12 Form, 1/2-EPP-IP-7.1.F12, Emergency Inventory Checklist – Personnel Decontamination Cabinet

4.2.13 Form, 1/2-EPP-IP-7.1.F13, Emergency Inventory Checklist – Personnel Decontamination Kit

4.2.14 Form, 1/2-EPP-IP-7.1.F14, Emergency Inventory Checklist – ERF Access Area Supplies

4.2.15 Form, 1/2-EPP-IP-7.1.F15, Emergency Inventory Checklist – EOF Equipment Cart No. 1

4.2.16 Form, 1/2-EPP-IP-7.1.F16, Emergency Inventory Checklist – EPP Air Sample Cart No.

4.2.17 Form, 1/2-EPP-IP-7.1.F17, Emergency Inventory Checklist – Operations Support Center (OSC)

4.2.18 Form, 1/2-EPP-IP-7.1.F18, Emergency Inventory Checklist – Alternate Operations Support Center (OSC)

4.2.19 Form, 1/2-EPP-IP-7.1.F12, Emergency Inventory Checklist – Medical Kit

4.2.20 Form, 1/2-EPP-IP-7.1.F12, Emergency Inventory Checklist – RCT Response Kit No.

5.0 RESPONSIBILITIES

5.1 Manager, Emergency Preparedness

5.1.1 Is responsible for ensuring that the emergency cabinets and facilities have the proper equipment and procedures required at that location.

5.2 EPP Lead Nuclear Technologist

5.2.1 Is responsible for ensuring that the quarterly inventory or post use inventories are completed and that appropriate corrective actions have been implemented.

5.3 Radiation Protection

5.3.1 Is responsible for performing and documenting the inventory, ensuring calibrated dosimetry and survey instruments are maintained in appropriate locations, and that the monthly respirator inspection is completed.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Precautions

6.1.1 During inventory, if an item is missing or if the minimum required number is not present, the item shall be replaced as soon as possible (within two weeks).

6.1.2 Items whose calibration expiration date is prior to the next scheduled inventory will be replaced prior to their expiration date.

6.1.3 For additions/deletions/revisions to the facility/cabinet/kit items a Condition Report SHALL be generated.

6.2 Limitations

6.2.1 None

7.0 PREQUISITES

7.1 None

8.0 PROCEDURE

8.1 General Inventory Actions

8.1.1 After a drill, actual emergency event, or if emergency facilities are disturbed, all effected cabinets, facilities and kits will be inventoried by RP Technicians or Emergency Response Organization personnel as assigned by Radiation Protection or Emergency Preparedness supervision.

NOTE: All inventory locations are listed on Attachment A.

8.1.1.1 Radiation Protection supervision will inform the Rad Protection Technician of what areas are to be inventoried

NOTE: Current Forms, E-Plan Appendix C and Implementing Procedure Effective Index are located on FYI.

8.1.1.2 The appropriate inventory forms and applicable E-Plan Appendix C and/or Implementing Procedure Effective Index will be provided to the Radiation Protection Technician.

8.1.1.3 The Radiation Protection Technician will proceed to the appropriate locations and using the form for that location as guidance, perform and document the inventory on the form.

8.1.1.3.1 Any items that are missing, out of calibration, or need replaced for any reason shall be documented on the inventory form.

8.1.1.3.2 The Radiation Protection technician should replace any item needing replaced. The Radiation Protection Supervisor should be notified of any items that need replaced but were not.

8.1.1.3.3 Replacement of items by the Radiation Protection technician shall be documented on the inventory forms including the date of replacement.

8.1.1.4 All completed inventory forms will be signed and returned to a Radiation Protection Supervisor.

8.1.1.5 The Radiation Protection Supervisor shall make arrangements to replace any items that need replaced as soon as possible. A Condition Report should be generated when replacement is delayed for greater than two weeks.

8.1.1.6 The Radiation Protection Supervisor shall forward all completed and reviewed inventory forms to Emergency Preparedness.

8.2 Specific Inventory Instructions

8.2.1 Radiation survey meters

8.2.1.1 Perform inventory check, replace missing or out of calibration meters with a meter with a calibration due date that will not expire before the next quarterly inventory.

8.2.1.2 Record serial number(s) and calibration due dates(s) on the meter(s) or replacement(s) on the inventory form.

8.2.2 Air sampler

8.2.2.1 Perform inventory check, replace missing or out of calibration air samplers with an air sampler with a calibration due date that will not expire before the next quarterly inventory.

8.2.2.2 Record serial number(s) and calibration due dates(s) on the air sampler(s) or replacement(s) on the inventory form.

8.2.2.3 Operate for at least five minutes and check for proper functioning, recording the flow rate in "Remark" column.

8.2.3 Radios

8.2.3.1 Check that the proper number of radios are present in designated locations.

8.2.3.2 Check for proper operation, send and receive with an operating radio of the same frequency.

8.2.4 Dosimetry

8.2.4.1 During routine or special inventories of cabinets containing dosimeters, it is necessary to only verify quantify, type (or range), and that the calibration due date has not been exceeded. Dosimeters should be rezeroed when necessary.

NOTE:	The Dosimetry Lab will calibrate the dosimeters and replace dosimeters when appropriate to maintain calibrated dosimeters in appropriate locations.

8.2.4.2 If discrepancies are noted, report these to the Dosimetry supervisor and if necessary obtain replacement dosimeters.

8.2.5 Respirators and cartridges

8.2.5.1 Emergency cabinet/kit respirators will be inspected as described in Step 2.2 of this procedure. During quarterly and special inventories, personnel need only to verify that the correct number of respirators are present and expiration dates have not been exceeded. If replacements are required, Radiation Protection personnel shall obtain them and record serial numbers on the inventory forms. Ensure that replacements have an inspection that will not expire before next scheduled monthly inspection.

8.2.6 Batteries

8.2.6.1 Perform operability check of battery powered equipment.

8.2.6.2 Replace batteries, including spare batteries, as needed or as specified on the inventory form.

8.2.7 Anti-C's (including coveralls, hoods, gloves, shoe covers) and other cloth or plastic suits/equipment

8.2.7.1 During inventory check and replace any item that appears to be ripped, torn, badly soiled, cracked, or otherwise exhibiting signs of deterioration.

8.2.8 Maps, lists, data sheets office supplies.

NOTE:	Procedures are supplied and updated by Beaver Valley Records Center Section.

8.2.8.1 Perform inventory check and check that all items are current, in order, and in good condition.

8.2.8.2 Verify that Controlled copies of the Emergency Preparedness Plan and of the Implementing Procedures (IP's) are in the locations indicated on the inventory forms.

8.2.8.3 For sectionalized copies of the IP's verify the correct revision by comparing to the Effective Index list.

8.2.8.4 Notify Radiation Protection Supervisor of outdated or damaged procedures.

8.2.8.5 Radiation Protection supervision shall notify BVRC of procedures that need updated.

8.3 Final Conditions

8.3.1 Each cabinet/kit/facility inventoried is complete as indicated on inventory form or deficiency is documented on inventory form and a Condition Report has been generated where appropriate.

8.3.2 All inventory forms are reviewed and forwarded to Emergency Preparedness.

8.3.3 A report of each inventory and inspection, including documented deficiencies has been prepared and submitted to the Manager, Emergency Preparedness.

ATTACHMENT A
Page 1 of 1
EMERGENCY EQUIPMENT INVENTORY TYPE/LOCATIONS

Name/Type	Location	Minimum
Control Room Emergency Cab. #1	Control Room	1
Water Monitoring Team Kit	ERF Decon Room	1
Field Monitoring Team Kit	ERF Decon Room/AEOF (JPIC)	3
Offsite Communications Equipment	ERF Decon Room Cabinet	3
Alternate EOF Emergency Cabinet #2	Alternate EOF (JPIC)	1
SPING (U1) Emergency Sampling Kit	U1-752' PAB	1
WRGM (U2) Emergency Sampling Kit	U2-773' PAB	1
Near Site Assembly Areas	QA Bldg., Training Bldg., WH-B	1 each
Primary Assembly Area	NCD-2, NCD-3, SOSB-3, SOSB-4	1 each
TSC Cabinet #1 through 3	ERF-TSC	1
EOF Cabinet #1 through 3	ERF-EOF	1
Personnel Decon Cabinet	ERF Decon Shower, U2-773' Waste Handling Bldg., U1-735' Decon Shower	1
Personnel Decon Kit	ERF Decon Shower Room Cabinet	3
ERF Access Area Supplies	ERF-Decon Shower Room	1
EOF Equipment Cart	ERF-EOF Hallway	1
EPP Air Sampling Cart No.	U1 Turbine Deck 735, U2 SOSB West Stairwell 730'	2
OSC Cabinets 1 through 5	OSC (Outage Central)	1 each
Alternate OSC Cabinets 1 through 3	Emergency Shutdown Panel Area	1 each
Medical Kit	Beaver County Medical Center	1
RCT Response Kit No.	Primary Access Control Point (U2)/ Alternate Access Control Point (U1)	1 each location

Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-9.1

Emergency Public Information Emergency Response Organization Controlling Procedure

Document Owner
Manager, Emergency Preparedness

Revision Number	12
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

CONTROLLED
BVPS UNIT 3

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1.0 PURPOSE

1.1 This procedure provides instructions to the Emergency Public Information Emergency Response Organization for the performance of tasks associated with the Public Information function. This controlling procedure is the entry point to other EPP/IP's related to Emergency Public Information.

2.0 SCOPE

2.1 FirstEnergy is responsible for the preparation and issuance of all news announcements related to plant conditions at the Beaver Valley Power Station. State and county emergency management agencies are responsible for the issuance of public announcements relating to offsite conditions, including recommended emergency measures and evacuation requirements.

2.2 An emergency condition, classified as a Site Area or General Emergency has been declared at Beaver Valley Power Station Unit 1, Unit 2 or as requested by the Emergency Director, or...

2.3 As deemed necessary by the Senior Nuclear Communications Representative or designee in consultation with the Vice President – Nuclear, or designee.

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 Beaver Valley Power Station Emergency Preparedness Plan.

3.1.2 Title 10, Code of Federal Regulations, Part 50.

3.1.3 NUREG-0654/FEMA-REP-1 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.

3.1.4 NPDAP 5.3, News Release and Notification

3.1.5 1/2-EPP-IP-1.7, Emergency Response Organization Teams.

3.1.6 Condition Reports

- 01-4230

3.2 Commitments

3.2.1 None

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 None

4.2 Forms

4.2.1 None

5.0 RESPONSIBILITIES

5.1 FirstEnergy Corporate Communications

5.1.1 Has the responsibility to assure the notifications described in this procedure are completed, as necessary.

5.2 On-Call Personnel Assigned a Beeper

5.2.1 Shall respond to their designated emergency facility upon beeper activation.

5.3 Senior Nuclear Communications Representative or designee

5.3.1 In consultation with the Vice President - Nuclear or designee has the responsibility for determination of activation of the JPIC.

5.4 Chief Company Spokesperson

5.4.1 When the JPIC is activated, is the official source of verbal information to the news media regarding an emergency condition at Beaver Valley Power Station.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Precautions

6.1.1 All news announcements shall be approved by either the designated Emergency Director (prior to Emergency Operations Facility (EOF) activation) or the Emergency/Recovery Manager (after EOF activation), prior to Chief Company Spokesperson, or designee, review.

6.2 Limitations

6.2.1 None

7.0 PREREQUISITES

7.1 None

8.0 PROCEDURE

8.1 Notification of Emergency Public Information Organization (EPIO)

8.1.1 Upon declaration of an Alert, or greater emergency, the Emergency Response Organization Beepers will be activated. EPIO "On-Call" beeper holders will call in and respond accordingly to the instruction provided.

8.1.2 Control Room personnel will notify the Senior Nuclear Communications Representative, or designated alternate, of an emergency per EPP/IP 1.1 "Notifications". The information is recorded on 1/2-EPP-IP-1.1.F01, Initial Notification Form.

8.1.3 After completing the Initial Notification Form, the information should be forwarded to the Senior Nuclear Communications Representative who will disseminate information as deemed necessary.

8.1.4 Upon designated EPIO personnel arrival at the JPIC, personnel will determine the necessity of notifying and mobilizing other EPIO personnel via call-trees.

8.2 Organization

8.2.1 When activated, BVPS members of the EPIO are assigned to one of two locations: The Beaver Valley Power Station Emergency Operations Facility (EOF) or the Joint Public Information Center (JPIC) according to the organizational structure in Section 5 of the BVPS Emergency Preparedness Plan.

8.3 Response

8.3.1 Following notification from Beaver Valley Power Station of any event classified as an emergency according to the BVPS Emergency Preparedness Plan, the EPIO response is as follows:

8.3.1.1 The Senior Nuclear Communications Representative, or designee, should call the Control Room in approximately 10 minutes following initial notification of the event and receive information on 1/2-EPP-IP-1.1.F03, Follow-up Notification Form.

8.3.1.2 Unusual Event and Prior to JPIC Activation

8.3.1.2.1 The Senior Nuclear Communications Representative or designee will disseminate information from the Initial and Follow-up Notification Forms, as deemed necessary.

8.3.1.3 Alert

8.3.1.3.1 Upon declaration of an Alert, or higher emergency, the ERO beepers will be activated. Designated On-Call personnel shall report to their appropriate emergency facilities.

8.3.1.3.2 Designated EPIO EOF personnel are notified and mobilized at an Alert Emergency and will activate per 1/2-EPP-IP-9.3.

8.3.1.3.3 Designated EPIO JPIC personnel are notified and mobilized at an Alert Emergency and will activate per 1/2-EPP-IP-9.4.

8.3.1.3.4 If situations warrant, additional EPIO JPIC staff may be activated per 1/2-EPP-IP-9.4 and 1/2-EPP-IP-9.5, respectively.

8.3.1.3.5 When activated, the EOF EPIO staff will begin news announcement writing responsibilities per 1/2-EPP-IP-9.3.

8.3.1.4 Site Area Emergency and General Emergency

8.3.1.4.1 The EPIO is fully activated at this level of emergency, and continues to issue news announcements after approval by the ERM and review by the CCS.

8.4 Facilities

8.4.1 The following is a description of the functions of the Nuclear Communications emergency facilities:

8.4.1.1 Emergency Operations Facility (EOF)-BVPS

8.4.1.1.1 When activated, the EOF staff is responsible for:

8.4.1.1.1.1 Gathering information and writing news announcements.

8.4.1.1.1.2 Acquiring and recording all necessary approvals of the written information to be released.

8.4.1.1.1.3 Distributing news announcements to First Energy Corporate Communications (until JPIC is activated), JPIC, ERF, and BVPS personnel.

8.4.1.1.1.4 Providing technical information for plant status updates to the JPIC.

8.4.1.1.1.5 Investigating and resolving rumored information concerning plant conditions and providing corrected information to the JPIC.

8.4.2 Joint Public Information Center (JPIC) - Coraopolis, PA

8.4.2.1 When activated, the JPIC is responsible for:

8.4.2.1.1 Issuing news announcements as significant events occur at the plant. In addition, media phone inquiries are handled at the JPIC.

8.4.2.1.2 Holding news briefings and distributing information to the news media.

8.4.2.1.3 Arranging for special requests of the news media.

8.4.2.1.4 Keeping company personnel notified of plant conditions, responding to reports of inaccurate information and distributing news announcements to all Company VP's for distribution through their respective groups.

8.4.2.1.5 Responding to calls from the general public.

8.4.2.1.6 Responding to calls from shareholders, investors and the financial community.

8.4.2.1.7 Coordinating distribution of information to local officials.

8.4.2.1.8 Participating in joint news announcements with county, state and federal government officials.

8.4.2.1.9 Maintaining liaison with information officers from the county, state and federal government agencies located at the JPIC.

8.4.2.1.10 Monitoring news media broadcasts to ensure accuracy of presented information.

8.4.2.1.11 Distributing news announcements to JPIC and Corporate Communications personnel.

8.4.2.1.12 Responding to calls from the media and the general public.

8.5 Final Conditions

8.5.1 The use of this procedure may be terminated when the situation/classification, which warranted activation of this IP, has been resolved or, as deemed appropriate per the Senior Nuclear Communications Representative and Vice President-Nuclear or designee.

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Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-9.3

Activation, Operation and Deactivation of Emergency Public Information Organization Emergency Operations Facility (EOF)

Document Owner
Manager, Emergency Preparedness

Revision Number	5
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

CONTROLLED
BVPS UNIT 3

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1.0 PURPOSE

1.1 This procedure provides guidance for the Emergency Public Information Organization (EPIO) Communications Emergency Operations Facility (EOF) staff in the activation, operation and deactivation of the EOF.

2.0 SCOPE

2.1 EOF Nuclear Communications activation is required at an emergency condition, classified as a Site Area or General Emergency at Beaver Valley Power Station Unit 1, Unit 2 or as requested by the Emergency Director or Emergency/Recovery Manager, or....

2.2 As deemed necessary by the Nuclear Communications Representative, or designee in consultation with the Vice President Nuclear, or designee.

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 Beaver Valley Power Station Emergency Preparedness Plan.

3.1.2 Title 10, Code of Federal Regulations, Part 50.

3.1.3 NUREG-0654/FEMA-REP-1 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."

3.1.4 NPDAP 5.3, News Release and Notification

3.1.5 1/2-EPP-IP-1.7, Emergency Response Organization Teams

3.1.6 Condition Reports

- 01-4230

3.2 Commitments

3.2.1 None

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 None

4.2 Forms

4.2.1 None

5.0 RESPONSIBILITIES

5.1 EOF Nuclear Communications Manager

5.1.1 Has overall responsibility for the implementation of this procedure.

5.2 EOF Support Services Manager

5.2.1 Has responsibility to arrange for clerical support and resolve equipment problems per the BVPS Emergency Preparedness Plan Section 5.0.

5.3 EOF Nuclear Communications personnel

5.3.1 Job Guidelines for are located in Attachment A.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Precautions

6.1.1 All news announcements shall be approved by either the designated Emergency Director (prior to EOF activation) or the Emergency/Recovery Manager (after EOF activation).

6.1.2 Any significant policy announcement on subjects other than plant conditions must be coordinated with First Energy Corporate Communications, in consultation with the Vice President-Nuclear.

6.1.3 News announcements concerning radioactive announcements shall be confirmed with the Radcon Coordinator and/or EA&DP Coordinator.

6.2 Limitations

6.2.1 None

7.0 PREREQUISITES

8.0 PROCEDURE

NOTE:	EOF emergency response personnel are activated in accordance with EPP/IP 1.7, "EMERGENCY RESPONSE ORGANIZATION TEAMS.

8.1 Activation

NOTE:	Designated EPIO EOF personnel will be notified and mobilized at an Alert Emergency via call-trees or beepers.

8.1.1 Upon notification, EPIO EOF personnel shall report to the EOF.

8.1.2 The EOF Nuclear Communications Manager shall determine when adequate staff has arrived.

8.1.3 The EOF Nuclear Communications Coordinator, if present, shall notify the EOF Nuclear Communications Manager of equipment and supplies status.

8.1.4 The EOF Nuclear Communications Manager shall inform the JPIC and Corporate staffs when the EOF staff is activated.

8.1.5 The EOF Nuclear Communications Manager, or designee, shall inform the Emergency/Recovery Manager or Emergency Director that the Nuclear Communications staff operation is activated.

8.2 Operation

8.2.1 Verbal Information

8.2.1.1 The Nuclear Communications Technical Advisor EOF shall collect and disseminate plant status information according to established guidelines (Attachment A).

8.2.1.2 The Nuclear Communications Coordinator shall investigate all rumored information at the request of the JPIC staff and provide follow-up.

8.2.2 Written Information

8.2.2.1 The Nuclear Communications Manager shall consult with the Senior Nuclear Communications Representative, or designee, to determine when to begin the process of writing news announcements per the guidelines in Attachment 1.

8.2.2.2 The Nuclear Communications Writers shall prepare all news announcements regarding plant conditions per Attachments A and B.

8.2.2.3 The Nuclear Communications Manager shall obtain written approval of all news announcements per Attachment 4.

8.2.2.4 The Nuclear Communications Coordinator shall ensure the distribution of all news announcements in the EOF as described in Attachment 3, "NEWS ANNOUNCEMENT DISTRIBUTION".

8.3 Deactivation

8.3.1 Upon concurrence from the JPIC Manager or designee, the EOF Nuclear Communications Staff shall be deactivated.

8.3.2 Emergency equipment/supplies shall be restored to pre-activation status.

8.4 Final Conditions

8.4.1 his procedure shall be terminated after the following conditions have been met:

8.4.1.1 Normal plant operations have been or are in the process of being restored.

8.4.1.2 News media interest has diminished to such an extent that pre-emergency media relations procedures can again be used.

8.4.1.3 The EPIO EOF staff has been relieved of all duties associated with the development and distribution of news announcements.

ATTACHMENT A
Page 1 of 4
JOB GUIDELINES

EOF NUCLEAR COMMUNICATIONS MANAGER

1. Upon beeper activation, reports to the Emergency Response Facility (ERF) or following notification from the primary Nuclear Communications contact, records emergency information, and notifies other members of the EPIO Response Team as necessary.

2. Once in the EOF, reports the arrival of the Nuclear Communications On-Site staff at the EOF to the Joint Public Information Center (JPIC) Information Coordinator (if JPIC is activated). If JPIC is not activated, contacts the Senior Nuclear Communications Representative, or designee.

3. Informs and verifies with the EPIO at the JPIC, if activated, all telephone numbers to be used in contacting the EPIO Communications On-Site staff.

4. As senior Nuclear Communications staff person in the EOF, interfaces with the Emergency Director and/or Emergency/Recovery Manager in resolving any conflicts involving news announcements from the EOF (depending on facilities activation stage).

5. Obtains approval of news announcements from the Emergency Director or Emergency/Recovery Manager (depending on facilities activation stage).

6. Furnishes all approved news announcements to EPIO staff located at the JPIC (if activated), and the EOF.

7. Investigates rumor inquiries from the JPIC Information Coordinator. If possible, provides correct information to the JPIC Information Coordinator for follow-up.

8. Maintains a working relationship with and responds to inquiries regarding news announcements from local, state and federal officials who are located on-site.

9. Maintains communications with JPIC via telephone or telephone headset, as necessary.

ATTACHMENT A
Page 2 of 4
JOB GUIDELINES

EOF NUCLEAR COMMUNICATIONS COORDINATOR

1. Following notification from the EOF Nuclear Communications Manager, reports to the ERF.
2. Reports the arrival of the EPIO On-Site staff at the EOF to the Emergency Director and/or Emergency/Recovery Manager (depending on facilities activation stage).
3. Coordinates with EOF Support Services to ensure resources and/or services are provided for any federal, state or county public information personnel operating from the EOF.
4. Assures distribution of BVPS news announcements to EOF and TSC facilities and provides all approved BVPS news announcements to EPIO staff located at the JPIC.
5. Assures transmittal of all off-site agency news announcements generated in the EOF to the JPIC Information Coordinator.
6. Investigates rumor inquiries from the JPIC Information Coordinator. If possible, provides correct information to the JPIC Information Coordinator for follow-up.
7. Maintains a working relationship with and responds to inquiries regarding news announcements from local, state and federal officials who are located on-site.
8. Coordinates with Support Services personnel for shifts as needed.
9. Collects information as necessary from EOF or TSC personnel to support the development of news announcements.
10. Assists the EOF Nuclear Communications Writer in developing news announcements, as needed.
11. Maintains a log of activities, including all significant items, events, contacts, and approvals.

ATTACHMENT A
Page 3 of 4
JOB GUIDELINES

EOF NUCLEAR COMMUNICATIONS WRITER

1. Prepares news announcements at the EOF in coordination with the Senior Nuclear Communications Representative as directed by the EOF Nuclear Communications Manager.

2. Prepares news announcements declaring any upgrading or termination of emergency classifications, (i.e., Unusual Event, Alert, Site Area and General Emergency) at BVPS.

3. Develops and writes periodic and timely news announcements based on up-to-the-minute plant conditions.

4. Uses Attachment 2, News Announcement Checklist to develop news announcements.

ATTACHMENT A
Page 4 of 4
JOB GUIDELINES

NUCLEAR COMMUNICATIONS TECHNICAL ADVISOR-EOF

1. Collects briefing and status information from appropriate TSC and EOF personnel.

2. Provides EPIO EOF staff with status and interpretation of plant conditions.

3. Provides timely technical information via telephone and frequently consults with JPIC Technical Advisor, Chief Company Spokesperson and JPIC Information Manager regarding:

   a. Emergency classification escalation and termination

   b. Status of on-going radiological conditions

   c. Current plant status

4. As necessary, provides technical review of news announcements generated at the EOF prior to review by the Emergency Director or Emergency/Recovery Manager (depending on facilities' activation stage).

ATTACHMENT B
Page 1 of 1
NEWS ANNOUNCEMENT CHECKLIST

A5.715GF

____ Date

____ Current as of: _____(Time)

____ News announcement Number

____ Contact numbers

____ Headline

____ Dateline - Shippingport, PA --

____ Current level of emergency

____ Time declared

____ Reason for declaring emergency level

____ Brief recap of situation

____ Corrective measures being taken by company

____ Occurrence/status of radiation announcement

____ Notifications made by company

____ Explanation of emergency classification

____ Inclusion of phrase "as a precautionary measure" as appropriate

____ Provide update on status of plant employees

____ Impact on health and safety of public -- only in early stages of emergency

____ Add "Additional information will be provided as it becomes available" as appropriate

____ Periodically reference the company's on-going communication with NRC and state and local emergency management agencies

____ Page Numbers (i.e., Page 1 of __, if applicable)

____ # # # to indicate end of news announcement

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ATTACHMENT C
Page 1 of 1
A5.715GN

NEWS ANNOUNCEMENT DISTRIBUTION FOR EMERGENCY OPERATIONS FACILITY

Distribution checklist for all news announcements issued by BVPS, state, county and federal agencies as a result of an emergency at BVPS.

____ Transmit to JPIC (FAX #4011/4010)

____ Transmit to First Energy Corporate Communications at 330-384-4539.

____ Post EOF

HAND CARRY TO:

____ TSC Emergency Director

____ Emergency/Recovery Manager or Assistant (EOF)

____ NRC Public Information Officer or on-site TSC/EOF Representative

____ State Emergency Management Agency Representatives

____ Pennsylvania

____ Ohio

____ West Virginia

____ Master Copy in Binder

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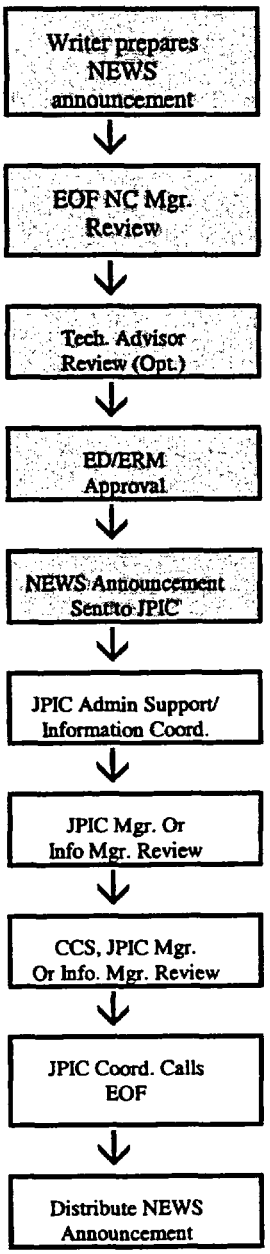
ATTACHMENT D
Page 1 of 1
NEWS ANNOUNCEMENT APPROVAL PROCESS



EOF writer develops NEWS announcement and places "Current as of" time in heading, NEWS announcement is printed out and given to the EOF Nuclear Communications Manager.

EOF Nuclear Communications Manager reviews the NEWS announcement checking for date, time, announcement number and accuracy. Nuclear Communications Manager determines if Technical Advisor review is necessary.

If requested, Technical Advisor reviews NEWS announcement.

Nuclear Communications Manager carries NEWS announcement to ED or ERM (depending on activation status) for written approval.

The EOF approved NEWS announcement is sent (FAXED) to the JPIC for review from the CCS or designated alternate (JPIC Manager or Information Manager).

The Information Coordinator receives the NEWS announcement from the JPIC Admin Support, performs a quick review and gives the announcement to the JPIC Manager.

The JPIC Manager or Information Manager reviews the NEWS announcement prior to giving to CCS for review.

The CCS, if applicable, reviews the NEWS announcement.

The JPIC Coordinator calls the EOF Nuclear Communications Coordinator and provides verbal confirmation of JPIC receiving and reviewing the NEWS announcement. The JPIC Coordinator then logs the telephone conversation for tracking purposes.

The NEWS announcement is distributed to the EOF and the JPIC.

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Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-9.4

ACTIVATION, OPERATION AND DEACTIVATION OF THE JOINT PUBLIC INFORMATION CENTER (JPIC)

Document Owner
Manager, Emergency Preparedness

Revision Number	10
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

CONTROLLED
BVPS UNIT 3

Beaver Valley Power Station	Procedure Number: 1/2-EPP-IP-9.4	
Title: ACTIVATION, OPERATION AND DEACTIVATION OF THE JOINT PUBLIC INFORMATION CENTER (JPIC)	Unit: 1/2	Level Of Use: General Skill Reference
	Revision: 10	Page Number: i of i

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1.0 PURPOSE

1.1 This procedure provides guidance for the Joint Public Information Center (JPIC) staff in the activation, operation and deactivation of the JPIC.

2.0 SCOPE

2.1 None

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 Beaver Valley Power Station Emergency Preparedness Plan.

3.1.2 Title 10, Code of Federal Regulations, Part 50.

3.1.3 NUREG-0654/FEMA-REP-1 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants".

3.1.4 NPDAP 5.3, News Release and Notification

3.1.5 1/2-EPP-IP 1.7, Emergency Response Organization Teams.

3.1.6 Condition Reports

- 01-3198
- 01-4230
- 01-4236
- 02-03981
- 02-03982
- 02-03983
- 02-03678
- 02-03713
- 02-04004
- 02-04855
- 02-04905
- 02-04919
- 03-07344-1

3.2 Commitments

3.2.1 None

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 None

4.2 Forms

4.2.1 Attachment C and F

5.0 RESPONSIBILITIES

5.1 JPIC Manager

5.1.1 Has overall responsibility for the implementation of this procedure.

5.2 JPIC Personnel

5.2.1 Job Guidelines for JPIC personnel are located in Attachment A.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Precautions

6.1.1 All news announcements must be approved by either the designated Emergency Director (prior to Emergency Operations Facility (EOF) activation) or the Emergency/Recovery Manager (after EOF activation).

6.1.2 Any significant policy announcement on subjects other than plant conditions must be coordinated with First Energy Corporate Communications, in consultation with the Senior Vice President-Nuclear.

6.1.3 Representatives of the State and the County emergency response agencies are encouraged to participate at the news briefings. BVPS may issue joint news announcements with these agencies.

6.1.4 The County and the State emergency management agencies have been asked to advise the Senior Nuclear Communications Representative of announcements issued to the news media or the Emergency Alert Stations.

6.2 Limitations

6.2.1 JPIC activation is required at an emergency condition, classified as a Site Area or General Emergency at Beaver Valley Power Station Unit 1, Unit 2, **or** as requested by the Emergency Director, or ...

6.2.2 As deemed necessary by the Senior Nuclear Communications Representative, or designee, in consultation with the Senior Vice President-Nuclear, or designee.

7.0 PREREQUISITES

7.1 None

8.0 PROCEDURE

NOTE:	JPIC personnel are activated in accordance with EPP/IP 1.7, "EMERGENCY RESPONSE ORGANIZATION TEAMS."

8.1 Activation

NOTE:	Designated JPIC personnel (beeper holders) shall be notified and mobilized at an Alert Emergency via beeper activation. Once the designated personnel arrive at the JPIC, additional personnel may be called-in, as necessary.

8.1.1 Upon notification, JPIC personnel shall report to the JPIC and sign the staffing board.

8.1.2 The Information Coordinator shall notify the JPIC Manager when adequate staff has arrived.

8.1.3 The Logistics Coordinator shall notify the JPIC Manager when sufficient equipment and supplies are available for operation of the JPIC.

8.1.4 The Security Coordinator shall establish and maintain adequate security in accordance with Attachment D of this procedure.

8.1.5 The JPIC Manager shall make a formal activation announcement of the JPIC over the JPIC public address system.

8.1.6 Via telephone, the Information Coordinator shall inform the EPIO staff at the EOF and the Penn Power Customer Accounts Services Department that the JPIC has been activated.

8.2 Operation

8.2.1 News Announcements

8.2.1.1 The Information Coordinator shall collect all news announcements that were approved prior to JPIC activation.

8.2.1.2 Administrative Support personnel shall ensure the distribution of all news announcements as described in Attachment B of this procedure.

8.2.1.3 The Information Coordinator shall continue to obtain current news announcements from the EOF in accordance with the guidelines in Attachment A.

8.2.1.4 The Information Coordinator shall ensure JPIC review and distribution of subsequent news announcements in accordance with the guidelines in Attachment A.

8.2.1.5 The Information Coordinator shall verbally notify the EOF Nuclear Communication Manager of the JPIC receiving and reviewing of news announcements.

8.2.2 News Briefings

8.2.2.1 Via telephone, the JPIC Technical Advisor shall contact the EOF Technical Advisor to discuss plant related information.

8.2.2.2 Via telephone conferencing, the JPIC Technical Advisor shall ensure the participation of the Chief Company Spokesperson and Information Manager in discussions per 6.1.1, as appropriate.

8.2.2.3 Information gathered during the conference call may be presented at news briefings by the Chief Company Spokesperson.

8.2.2.4 The JPIC Manager shall arrange for a pre-briefing meeting with the governmental Public Information Officers (PIOs) present at the JPIC, in preparation for the news briefing.

8.2.2.5 The Chief Company Spokesperson and the JPIC Manager, in consultation with the governmental PIOs, will determine the frequency of news briefings at the JPIC.

8.2.2.6 The Media Relations Coordinator will inform the news media of the time of upcoming news briefings.

8.2.2.7 The JPIC Manager will preside over news briefings. The Chief Company Spokesperson and governmental PIOs will provide information and answer news media questions regarding the status of the emergency.

8.2.2.8 JPIC personnel will record questions that could not be answered and provide answers for subsequent news briefings.

8.2.2.9 The JPIC Technical Briefer will provide generic information regarding plant systems to the news media.

8.2.3 Information Management and Control

8.2.3.1 The Media Contact Representatives shall receive and respond to telephone calls from the news media in accordance with the guidelines in Attachment A.

8.2.3.2 The Media Monitoring Representatives shall monitor TV and radio news broadcasts in accordance with the guidelines in Attachment A.

8.2.3.3 The Rumor Control Coordinator shall report any apparent misinformation received to the Information Coordinator in accordance with the guidelines in Attachment A.

8.2.3.4 The EMA Contact Representatives shall provide information to and receive information from the governmental PIOs at the JPIC in accordance with the guidelines in Attachment A.

8.3 Deactivation

8.3.1 Upon concurrence from the JPIC Manager, the Chief Company Spokesperson and governmental PIO's, the JPIC shall be deactivated.

8.3.2 Emergency equipment/supplies shall be restored to preactivation status, by the Logistics Coordinator.

8.4 Final Conditions

8.4.1 This procedure shall be terminated after the following conditions have been met:

8.4.1.1 Normal plant operations have been or are in the process of being restored.

8.4.1.2 News media interest has diminished to such an extent that pre-emergency media relations procedures can again be used.

8.4.1.3 The JPIC staff has been relieved of all duties associated with the development and presentation of news information.

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JOB GUIDELINES

CHIEF COMPANY SPOKESPERSON

1. Reports to the JPIC and signs the staffing board.

2. Briefs and consults with the EPIO staff and governmental PIOs at the JPIC.

3. Presents regular, timely information at news briefings at the JPIC regarding the status of the plant.

4. Announces plant status and actions being taken to achieve plant stability, using current news announcements and information regarding plant status provided by the Technical Advisor.

5. Reviews news announcements.

6. Announces any company policy decisions coming from the EOF regarding the protection and safety of on-site personnel.

7. Announces any upgrading or termination of emergency classification of the plant and the reason for the change.

8. Participates in interviews with the local, regional and national news media.

9. Frequently consults with the Emergency/Recovery Manager regarding present status of plant conditions and when possible participates in EOF briefings via phone.

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JOB GUIDELINES

JPIC MANAGER

1. Reports to the JPIC and signs the staffing board.

2. Mobilize the remainder of the JPIC staff by directing the Information Manager, Information Coordinator, Media Relations Coordinator and the Logistics Coordinator to begin the call out of additional personnel, as necessary.

3. Announces the activation of the JPIC via the public address system once sufficient staff and equipment is in place as communicated by the Information and Logistics Coordinators.

4. Ensures JPIC logistical needs are met through interface with the Logistics Coordinator.

5. Continually observes the operation of the JPIC and recommends changes or improvements to facilitate media briefings.

6. Reviews news announcements if Chief Company Spokesperson unavailable.

7. During news briefings, compiles a list of items that need to be followed up in subsequent briefings. This includes questions that need to be answered, evaluation of the effectiveness of each news briefing, and follow-up of incorrect information that was released to the public from whatever source.

8. Advises The Chief Company Spokesperson and points out potential questions to be answered in upcoming news briefings.

9. Deactivates the JPIC as outlined in Section 8.3, Deactivation and Section 8.4, Final Conditions of this procedure.

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JOB GUIDELINES

INFORMATION MANAGER

1. Reports to the JPIC and signs the staffing board.

2. As necessary, call-out additional personnel as follows:

   - EMA Contact Reps. (3) Three
   - Rumor Control Coordinator (2) Two
   - Media Monitoring Reps. (3) Three

3. In the absence or unavailability of the Chief Company Spokesperson and JPIC Manager, reviews news announcements.

4. Participates in telephone discussions between the Chief Company Spokesperson and the Technical Advisors at the JPIC and EOF.

5. Maintains communications with the Information Coordinator to assure that news announcement approval, rumor control, media monitoring, and news media contact functions are being conducted properly and effectively. Also, reviews and signs, "Rumor Inquiry Form" (Attachment C).

6. Prior to any joint news briefings arranges a coordination meeting with the Chief Company Spokesperson and the State and County officials located at the JPIC.

7. Coordinates the issuing of news announcements with those of the State and County to ensure timeliness and consistency.

8. Oversees the EMA Contact Representatives to assure that the needs of the State and County representatives at the JPIC are being met.

9. Provide feedback to Media Monitoring Representatives, Media Contact Representatives, or Rumor Control Coordinator concerning how rumors or mis-information is addressed.

10. Review and approve JPIC News Briefing Summary Sheet (Attachment F) and give to the Rumor Control Coordinator for distribution.

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JOB GUIDELINES

INFORMATION COORDINATOR

1. Reports to the JPIC and signs the staffing board.

2. As necessary, call-out additional personnel as follows:

   - Information Coordinator Assistant
   - CASD Reps., Penn Power
   - Media Contact Reps. (3) Three

3. Serves as Information Manager until the Information Manager arrives.

Prior to JPIC activation:

1. Ensures staff has signed-in with Security.
2. Ensures staff completes the staffing board.
3. Notifies the JPIC Manager when the JPIC is fully staffed and can be activated.
4. Requests that the Nuclear Communications Manager at the EOF transmit the Initial Notification Form and all news announcements that have been approved and distributed.

JPIC activation:

1. Informs the ERM or Assistant, Sr. Nuclear Communications Representative and EOF staffs via telephone that the JPIC is activated.
2. Obtains current news announcements from the EOF and verbally notifies EOF Nuclear Communications Manager of JPIC receiving and reviewing of news announcement.
3. Collects all news announcements that were approved prior to JPIC activation and ensures distribution to JPIC staff.
4. Continually ensures that news announcements are being provided to the State, County and Federal agencies either through telephone communications or hard copy transmission.
5. Ensures that the status boards in the Government and Work Rooms are continuously updated with emergency events.
6. Maintains ongoing communications with First Energy Corporate Communications informing them of emergency events. (Listed in Attachment B)
7. Continually directs rumor control activities and investigates rumors. Assures the Information Manager reviews and approves responses to rumors per Attachment C.

   a. After review and approval by the Information Manager, provide a copy of approved Rumor Inquiry form to the Rumor Control Coordinator.

INFORMATION COORDINATOR (CONTINUED)

JPIC activation:

8. Consults with the Information Manager and fulfills requests as needed.

9. If necessary, ensures that a second shift is called-out, in conjunction with Support Services (EOF).

10. Maintains an event log of all communications and activities and issues the log to the Emergency Preparedness Section at the conclusion of the emergency.

11. Collects event logs from JPIC at the conclusion of the emergency and forwards the logs to the Emergency Preparedness Section.

12. Ensures distribution of news announcements to JPIC staff.

13. Via telephone, inform the EPIO staff at the EOF and the Penn Power Customer Services Department that the JPIC has been activated.

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JOB GUIDELINES

INFORMATION COORDINATOR - ASSISTANT

1. Reports to the JPIC and signs the staffing board.

2. Ensures the staff completes the staffing board and notifies the Information Coordinator when the JPIC is fully staffed.

3. Maintains and updates the status boards in the Government and Work Rooms with emergency events.

4. Maintains a log of the Information Coordinator's activities.

5. Ensures Media Monitors, Media Contact Representatives, and the Rumor Control Coordinator receive all news announcements.

6. Collects event logs from JPIC staff at the conclusion of the emergency and forwards the logs to the Information Coordinator.

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JOB GUIDELINES

JPIC TECHNICAL ADVISOR

1. Reports to the JPIC and signs the staffing board.

2. Maintains frequent contact with the EOF Technical Advisor to obtain up-to-the-minute information on plant status.

3. Keeps the Chief Company Spokesperson, JPIC Manager and Information Manager informed of the plant status and actions being taken to achieve plant stability and recovery.

4. Ensures that the Chief Company Spokesperson and the Information Manager are included in telephone discussions of plant status information with the EOF, as appropriate.

5. Takes written notes as needed to accurately convey information from the EOF Technical Advisor to the Chief Company Spokesperson, Information Manager or Information Coordinator.

6. Seeks information from the EOF Technical Advisor as requested by the Chief Company Spokesperson, JPIC Manager or Information Manager.

7. Consults with JPIC staff, as requested, in the interpretation and clarification of news announcements and other information regarding plant status and actions being taken to achieve plant stability and recovery.

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JOB GUIDELINES

EMERGENCY MANAGEMENT AGENCY (EMA) CONTACT REPRESENTATIVE

NOTE:

ONLY approved news announcements are to be available to the Media.

1. Reports to the JPIC and signs the staffing board.

2. Contacts the designated EMA State and County Public Information Officers, listed in the EP Resource Manual, and informs them that the Joint Public Information Center has been activated.

3. Provides a call-back number (use your phone number) for the EMA's use to obtain information regarding plant and on-site status.

4. Provides plant status information via news announcements to the County or State Public Information Officers at the JPIC.

5. Keeps the Information Manager apprised of County and State public announcements and news announcements.

6. Provides liaison between Company and County and State Public Information Officers for logistical and ongoing administrative needs within the JPIC.

7. Keeps EMA's apprised of relevant rumor control activity as directed by the Information Coordinator.

8. Maintains a log during an emergency of all contacts, time of contact, along with any other pertinent information.

9. Following an emergency, issues a report to the Information Manager regarding emergency response activities.

10. Ensures that News Announcements issued by the States are distributed at the JPIC. (Same distribution as FENOC News Announcements.

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JOB GUIDELINES

MEDIA CONTACT REPRESENTATIVES

1. Reports to the JPIC and signs the staffing board.

2. Provides logistical information (location of plant, lodging near plant, etc.) to the media.

3. Answers basic media inquiries related to the emergency. Detailed inquiries are logged and given to the Information Coordinator for follow-up. Information regarding station events/activities should be given to the media only after it has been released via a news announcement or News Briefing.

4. Directs the media on where to obtain news announcements issued to the wire service.

5. Reports rumor information to the Rumor Control Coordinator using the Rumor Inquiry Form (Attachment C).

6. Maintains a log during an emergency of all contacts, time of contact, along with any other pertinent information.

7. Refers all inquiries regarding protective measures for public to appropriate County emergency management agency, per EPP/IP 9.5, Attachment 2.

8. Refers all industry calls requesting news announcements to the INPO Nuclear Network (Attachment B).

9. Rumor Control Coordinator to assign a number to form before processing.

10. At the conclusion of the emergency, provides recorded information and logs to the Information Coordinator.

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JOB GUIDELINES

MEDIA MONITORING GUIDELINES

1. Reports to the JPIC and signs the staffing board.

2. Monitors local radio and TV stations and reports to the Information Coordinator through the Rumor Control Coordinator any information, which appears to be misleading or incorrect. Stations to be periodically monitored are:

RADIO	TV
KDKA - 1020 AM (Pittsburgh)	KDKA-TV Channel 2 (Pgh, Pa)
WKQV - 1410 AM (Pittsburgh)	WKBN - Channel 27 (Youngstown, OH)
WBVP - 1230 AM (Beaver Falls)	CNN (Atlanta, GA)
WMBA - 1460 AM (Ambridge)	
WWVA – 1170 AM (Wheeling)	
WVNP – 89.9 FM (WV Public Radio)	
WKBN - 570 AM (Youngstown, OH)	

3. Completes Rumor Inquiry Form (Attachment C) and submits it to the Rumor Control Coordinator.

4. Receives rumor control information from the Information Coordinator, or designee, through the Rumor Control Coordinator, as appropriate, and monitors media accordingly.

5. Maintains a log of all incorrect information with time and source.

6. Receives information from written news announcements and from Media Relations Coordinator on upcoming interviews and coverage and monitors accordingly.

7. At the conclusion of the emergency, provides recorded information and logs to the Information Coordinator.

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JOB GUIDELINES

RUMOR CONTROL COORDINATOR - JPIC

1. Reports to the JPIC and signs the staffing board.

2. Receives and records all requests for information, points of clarification, and rumored information and assigns a number to the Rumor Inquiry Form.

3. Reports information to the Information Coordinator using the Rumor Inquiry Form (Attachment C) for follow-up.

4. Receives corrected, approved "Rumor Inquiry Forms", (Attachment C) from the Information Coordinator for distribution to the Media Contact Reps. and the Media Monitoring Reps.

5. Maintains a log of all rumors received and sources.

6. Records News Briefing Summary Sheets.

7. Obtains Information Manager's approval on News Briefing Summary Sheets.

8. Provides the approved JPIC News Briefing Summary Sheet (Attachment F) to the Media Contact Representatives and the Media Monitoring Representatives.

9. At the conclusion of the emergency, provides recorded information and logs to the Information Coordinator.

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JOB GUIDELINES

MEDIA RELATIONS COORDINATOR

1. Reports to the JPIC and signs the staffing board.

2. Calls out the Technical Briefer to report to the JPIC, if needed.

3. Continually observes the operation of the Joint Public Information Center and recommends changes or improvements to facilitate media briefings.

4. Advises Chief Company Spokesperson (through the JPIC Manager, if available) and points out potential questions to be answered in upcoming news briefings.

5. Coordinates requests from news media. This may include:

   a. Arranging media tours to designated locations near the plant for photographic and filming purposes;
   b. Recommending spokespersons and arranging media interviews with company officials;
   c. Coordinating special parking requirements for national network or other trailers, etc.
   d. Obtaining permission from plant security for aerial photography;
   e. Providing press kits, photos, diagrams, etc., as requested.

6. Works with the Logistics Coordinator to ensure that the media briefing area at the JPIC is fully functional.

7. Semi-annually reviews and updates press kits at the JPIC.

8. Ensures that news announcements and biographies are distributed in the JPIC media briefing area.

9. Maintains a log of all news announcements, (Federal, State, County and Utility) distributed to the mass media from the JPIC and maintains a copy of each news announcement.

10. Ensures that microphones are turned on prior to each news briefing.

11. Compiles and issues a report to the Information Coordinator at the conclusion of the emergency.

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JOB GUIDELINES

TECHNICAL BRIEFER

1. Reports to the JPIC and signs the staffing board.

2. Attends all news briefings to obtain information on the current status of various plant systems.

3. Consults with the JPIC Technical Advisor as needed on questions and requests for information related to systems affected by an emergency.

4. Answers media questions between news briefings concerning descriptions of plant systems and operating characteristics of these systems.

NOTE:

INFORMATION GIVEN TO THE NEWS MEDIA IS LIMITED TO DESCRIPTIONS OF THE OPERATION OF PLANT SYSTEMS. SINCE THE DISCUSSION ON ACTUAL PLANT CONDITIONS AND ACTIONS BEING TAKEN TO ACHIEVE PLANT STABILITY IS THE RESPONSIBILITY OF THE CHIEF COMPANY SPOKESPERSON, THE TECHNICAL BRIEFER WILL NOT SPECULATE ON SUCH MATTERS OR POTENTIAL FUTURE EVENTS.

5. Explains plant systems by using the plant visual schematics that are available in the Media Presentation Room.

6. Serves as advisor to the JPIC Staff on any technical matter.

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JOB GUIDELINES

LOGISTICS COORDINATOR

1. Reports to the JPIC and signs the staffing board.

2. As necessary, call out additional personnel as follows:

   - Administrative Support (JPIC)
   - Engineering Communications Representative
   - Security Coordinator (JPIC)

3. Assures the timely delivery and set-up of all equipment and display material required for emergency response operation, including equipment that is stored at other locations.

4. Notifies Security Coordinator to initiate security measures at the JPIC properties.

5. Arranges for the accommodation of news trailers, and other media or corporate transportation equipment.

6. Assures the set-up of sufficient communications equipment at the JPIC.

7. Maintains supervision of all logistics during an emergency at the JPIC properties and acts as a liaison with the management of the JPIC.

8. Maintains a quarterly check and test of all JPIC equipment and reports any changes or problems to the Emergency Preparedness Section.

9. Maintains up-to-date checklists and procedures for JPIC set-up and operation, revising quarterly. Also maintains current forms for JPIC use during emergency response.

10. Coordinates with the EOF Support Services Manager for JPIC clerical support and 24 hour staffing.

11. Coordinates synchronizing the JPIC clock with the EOF/TSC clocks.

12. Compiles and issues a report of all emergency response logistics to the JPIC Manager at the conclusion of the emergency.

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JOB GUIDELINES

SECURITY COORDINATOR

1. Reports to the JPIC and signs the staffing board.

2. Implements security requirements for JPIC.

3. Assures that security officers are stationed at proper locations as outlined in Attachment D of this procedure.

4. Assures that only individuals with proper credentials as outlined in the EPIO Emergency Preparedness Plan are admitted to the JPIC.

5. Contacts local or State law enforcement officials should their assistance be required.

6. Maintains a log of personnel entering and leaving the JPIC.

7. Compiles and issues a report to the Logistics Coordinator at the conclusion of the emergency.

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JOB GUIDELINES

ENGINEERING COMMUNICATIONS REPRESENTATIVE

1. Reports to the JPIC and signs the staffing board.

2. Provides technical expertise and resolves telecommunication problems associated with emergency response operations.

3. Assists with the set-up, operation, and maintenance of all telecommunications equipment, as required.

4. Coordinates operation and maintenance of the necessary telecommunications channels and equipment that is required between the JPIC and outside governmental facilities (i.e., PEMA, Harrisburg Office).

5. Assures the timely acquisition of additional emergency telecommunications engineering support personnel, if necessary.

6. Compiles and issues a report to the Logistics Coordinator at the conclusion of the emergency.

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JOB GUIDELINES

ADMINISTRATIVE SUPPORT

NOTE:

ONLY approved news announcements are to be available or given to the media.

1. Reports to the JPIC and signs the staffing board.

2. Operates-facsimile and copy equipment.

3. Requests necessary materials, resources, personnel from Logistics Coordinator to ensure the smooth flow of information within and from the JPIC.

4. Distributes Company news announcements to JPIC staff and external locations in accordance with Attachment B.

5. Aid the State, County and NRC in distributing their news announcements at the JPIC in accordance with Attachment B.

6. Compiles and issues a report to the Logistics Coordinator at the conclusion of the emergency.

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ATTACHMENT B
Page 1 of 3
NEWS ANNOUNCEMENT DISTRIBUTION FOR: JOINT PUBLIC INFORMATION CENTER

NOTE:

ONLY approved news announcements are to be available or given to the media.

Distribution checklist for all news announcements issued by BVPS, state, county and federal agencies as a result of an emergency at BVPS.

News Announcement # _____

_____ Revision received _____ Revision Distributed
_____ Time received _____ Time Distributed

FAX TO:

_____	PR Newswire	888-568-0898
_____	EOF Nuclear Communications Staff	724-682-5994
_____	First Energy Corporate Communications	330-384-4539
_____	Beaver County EMA	724-775-1163
_____	Columbiana County EMA	330-424-9267
_____	Hancock County OES	304-564-4031
_____	Pennsylvania EMA	717-651-2021
_____	Ohio EMA	614-889-7183
_____	West Virginia OES	304-344-4538
_____	NRC (Region I, Public Affairs)	610-337-5241
_____	NRC (Washington D.C.)	301-415-2234
_____	INPO	770-644-8549
_____	Nuclear Energy Institute	202-739-8000

ATTACHMENT B
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NEWS ANNOUNCEMENT DISTRIBUTION FOR: JOINT PUBLIC INFORMATION CENTER

NOTE:

ONLY approved news announcements are to be available or given to the media.

Distribution checklist for all news announcements issued by BVPS, state, county and federal agencies as a result of an emergency at BVPS.

News Announcement # _____

_____ Revision received _____ Revision Distributed
_____ Time received _____ Time Distributed

HAND CARRY TO:

_____ Information Manager
_____ Information Coordinator
_____ Information Coordinator Assistant
_____ Technical Advisor
_____ Chief Company Spokesperson
_____ Rumor Control Coordinator
_____ Media Relations Coordinator
_____ Media Monitoring Reps. (3)
_____ Post in JPIC (1)
_____ Copies For Reporters (as needed)
_____ Technical Briefer
_____ Emergency Management Contact Representatives (11)
- _____ Pennsylvania Rep. (5)
- _____ Ohio Rep. (3)
- _____ West Virginia Rep. (3)

ATTACHMENT B
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NEWS ANNOUNCEMENT DISTRIBUTION FOR: JOINT PUBLIC INFORMATION CENTER

TELEPHONE CONTACTS

1. NRC REGION 1 PUBLIC AFFAIRS 610-337-5330
   General Office number 610-337-5000
   WASHINGTON D.C. PUBLIC AFFAIRS 310-415-8200
   Weekends 310-415-7000
2. PENNSYLVANIA EMERGENCY MANAGEMENT AGENCY
   General Number 717-651-2001
3. BEAVER COUNTY EMERGENCY MANAGEMENT AGENCY
   ..... 724-775-1049 or
   724-775-1700
   Public Information (Site Area or General Emergency) 724-775-0344
4. OHIO EMERGENCY MANAGEMENT AGENCY .....
   614-889-7153
   Public Affairs Officer 614-889-7000
5. COLUMBIANA COUNTY EMERGENCY MANAGMENT AGENCY
   ..... 330-424-9725 or
   330-424-7005
   Public Information (Site Area or General Emergency) 330-424-0861
6. WEST VIRGINIA OFFICE OF EMERGENCY SERVICES
   304-558-5380
7. HANCOCK COUNTY OFFICE OF EMERGENCY SERVICES
   304-564-4040
   ..... or 4041
8. FIRST ENERGY CORPORATE
   Todd Schneider, Mgr., FENOC Communications 330-315-7290
   Pager 440-733-0728
   Home 330-659-6216
   Ralph J. DiNicola, FE Corporate Public Relations 330-384-5939
   Home 330-896-3380
   Fax 330-384-4539
   Corporate Communications On-Call
   Answering (Evenings and Weekends) 888-900-5200
9. INSTITUTE OF NUCLEAR POWER OPERATIONS (INPO)
   Communications Division 770-644-8216
   EP Command Center 1-800-321-0614
10. Nuclear Energy Institute (NEI) 202-739-8000
    Fax 202-785-4113
11. EDISON ELECTRIC INSTITUTE 24-hr. Press Hotline 800-424-8897
    General Switchboard 202-778-6400

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ATTACHMENT C
Page 1 of 1
A5.715GH

RUMOR INQUIRY FORM JOINT PUBLIC INFORMATION CENTER

Rumor Received by: Number: _____

☐ Media Monitoring Rep.

☐ Media Contact Reps. ☐ Other _____

Date:_____ Time Received:_____

Rumor Source: ☐ News Media ☐ Employee ☐ Public ☐ Other _____

Name of Source:_____

Affiliation, if any:_____

Nature of Rumor:_____

_____

_____

Person Recording Rumor: _____

Response: _____

_____

Source of Response: _____

Information Mgr. (or designee)
Approval Signature:_____

Forward copy to: ☐ Rumor Control Coordinator. ☐ Information Coordinator.

☐ Media Monitoring Reps. ☐ Media Contact Reps.

☐ JPIC Mgr. ☐ Inform. Mgr.

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ATTACHMENT D
Page 1 of 2
SECURITY PROCEDURES

A. PURPOSE:

This procedure provides guidance for controlling access and maintaining order within the Joint Public Information Center (JPIC) in support of the BVPS Emergency Preparedness Plan.

B. SCOPE:

These procedures shall apply to all individuals, both employees and non-employees, who are present at the JPIC when that facility is operated in support of the BVPS Emergency Preparedness Plan.

C. PROCEDURES:

1.0 The Security Coordinator for the JPIC shall be directly responsible for implementing and enforcing these procedures when the JPIC is activated in support of the BVPS Emergency Preparedness Plan, as well as during appropriate periods immediately prior to such activation when these procedures are deemed necessary to establish and maintain order at the JPIC.

2.0 To assist the Security Coordinator in implementing and enforcing these procedures, if needed, security officers will be positioned at various locations to control access and to help maintain order. All personnel within the JPIC must adhere to these procedures, and must accept the authority of the security officers to restrict access in compliance with these procedures.

3.0 Disorderly persons shall be removed from the JPIC, if such action is necessary to maintain proper order, and the Security Coordinator shall establish liaison with local law enforcement agencies to provide appropriate support for this purpose.

4.0 Properly identified Beaver Valley Power Station employees will be allowed access to the JPIC as necessary for the performance of their duties, but all BVPS employees must wear their company ID cards in the chest area in a visible manner whenever they are inside the JPIC when these procedures are in effect. Any questions regarding employee access or the proper display of company ID cards should be referred to the Security Coordinator.

ATTACHMENT D
Page 2 of 2
SECURITY PROCEDURES

5.0 All non-employees must enter through the marked doors at the front (North side) of the JPIC, and must be logged-in at the appropriate registration desk after presenting proper credentials from the organizations they represent. Any non-employees without proper credentials must have their access authorized by an appropriate Beaver Valley Supervisor. Each non-employee will be issued one of the following types of access badges when he or she is logged-in, and must wear the badge in the chest area in a visible manner at all times while within the JPIC:

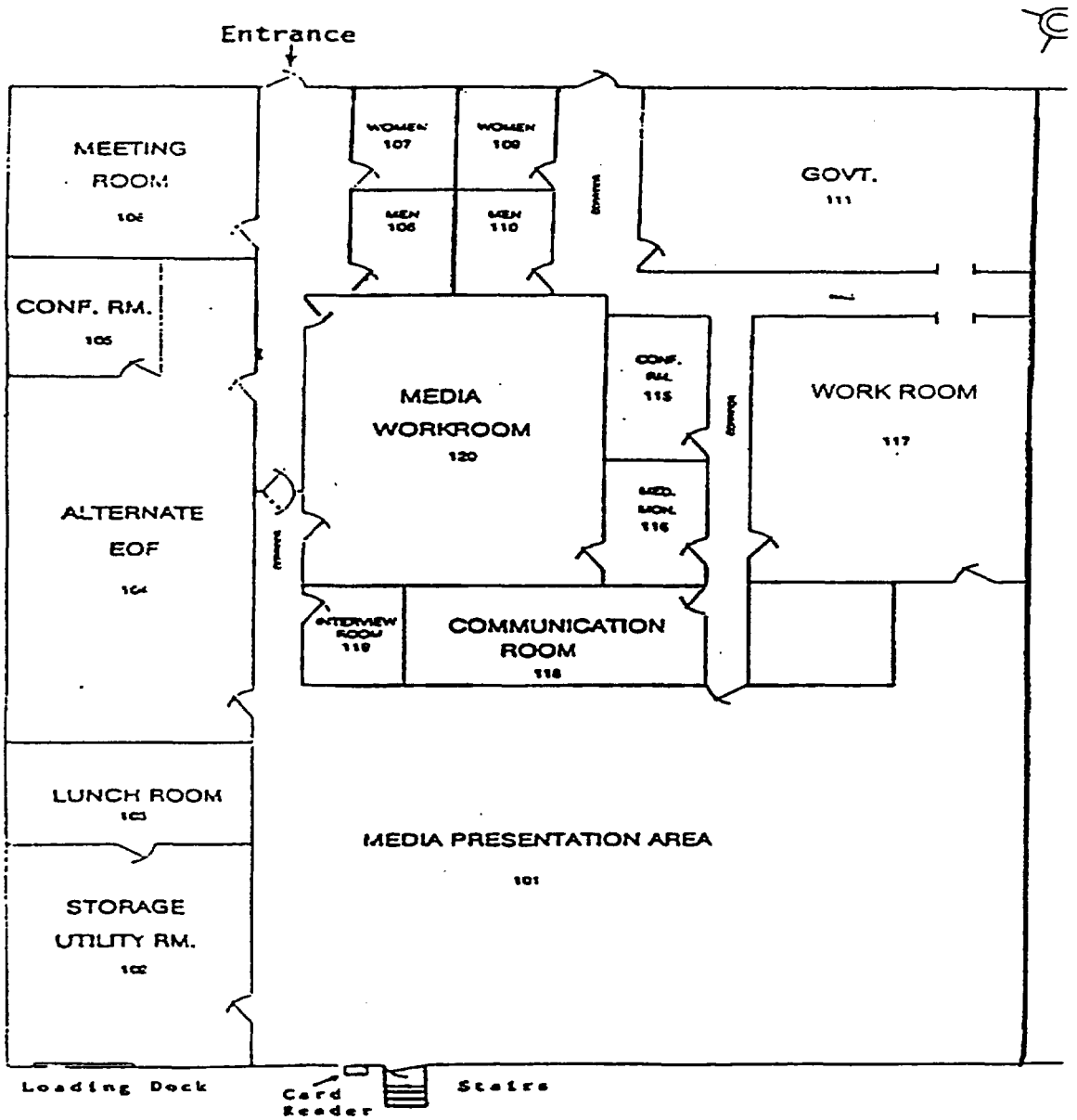
a) News Media Representatives - pink cards
b) Governmental Representatives - blue cards
c) Visitors - white cards

6.0 Prior to departing the JPIC for any reason, all non-employees must return their access badges and be logged-out. Any lost access badges must be reported to the Security Coordinator as soon as the loss is noticed.

7.0 Certain non-employees may be authorized limited access to the JPIC loading dock and adjacent Lunch Room for logistical purposes (i.e., delivery and removal of food, supplies, trash, etc.), without being logged-in or issued access badges, but such access must be specifically authorized by the Security Coordinator. A security officer or other designated representative of the Security Coordinator must accompany such persons at all times while they are within the JPIC. Under no circumstances will such persons be admitted to any areas of the JPIC other than the loading dock and adjacent Lunch Room.

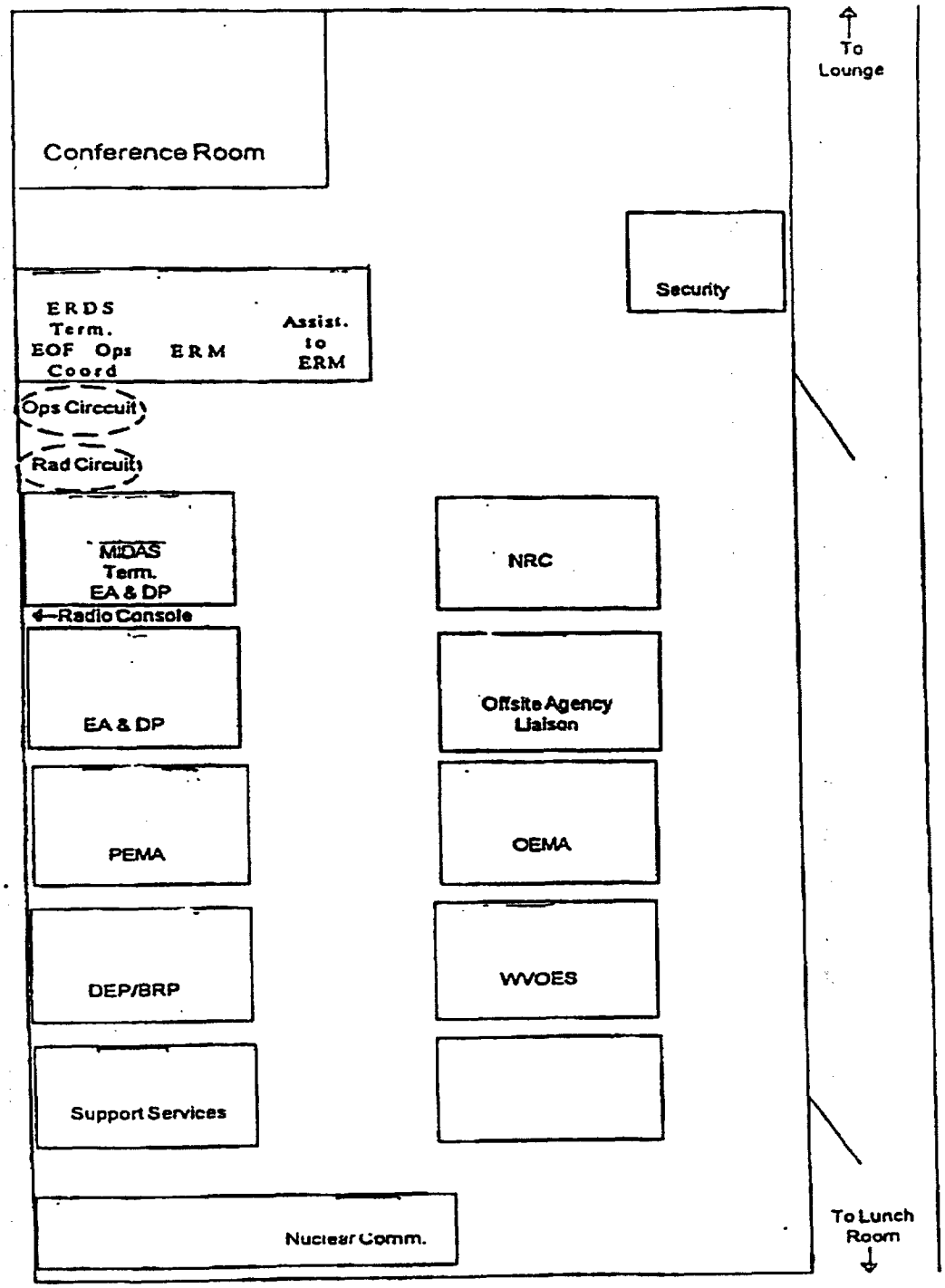
8.0 If the Alternate EOF is activated, Alternate EOF personnel will enter the JPIC Building per EPP/IP 1.6, Attachment 2. BVPS Security will send a representative to be stationed inside the JPIC Building, but outside the Alternate EOF door. BVPS Security will control access to the Alternate EOF.

ATTACHMENT E
Page 1 of 4
JPIC FLOOR PLANS



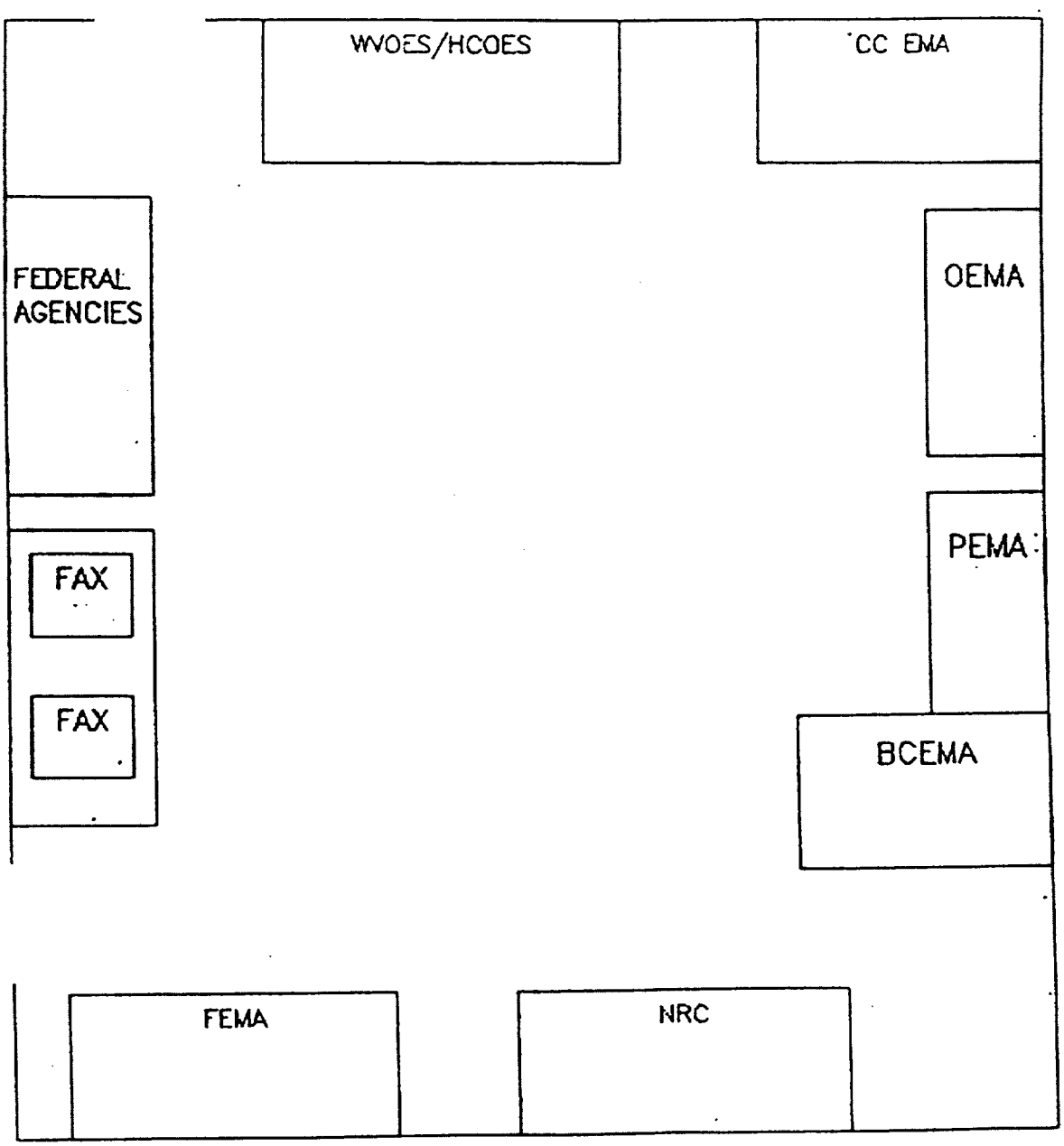
ATTACHMENT E
Page 2 of 4
JPIC FLOOR PLANS

JPIC AEOF



ATTACHMENT E
Page 3 of 4
JPIC FLOOR PLANS

JPIC GOVERNMENT ROOM



ATTACHMENT E
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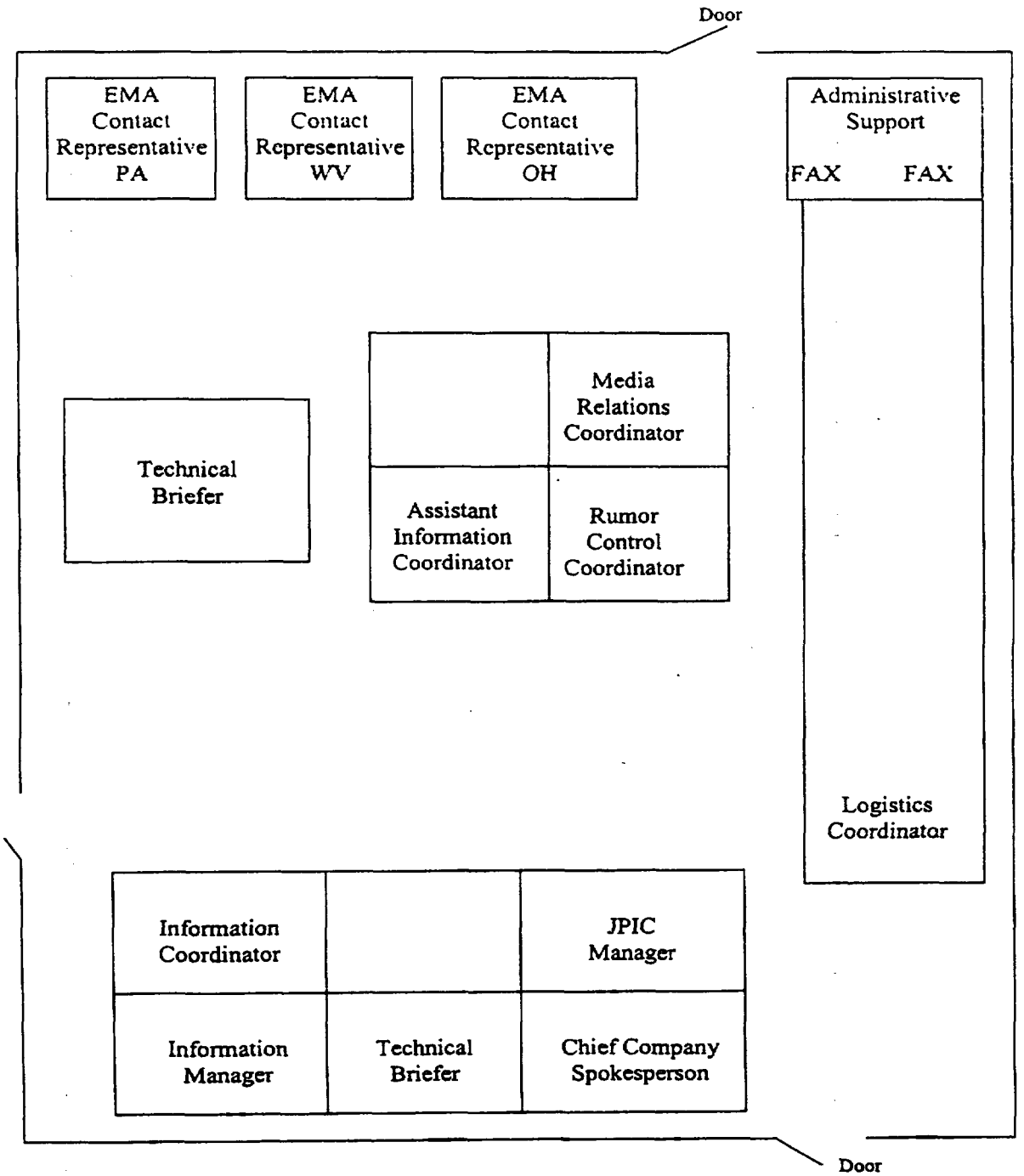
JPIC FLOOR PLANS

JPIC WORK ROOM



ATTACHMENT F
Page 1 of 2
JPIC NEWS BRIEFING SUMMARY SHEET

Beaver Valley Unit No. 1 ☐ **Unit No. 2** ☐ **(Check one)**

Date: _____ **Time:** _____ **News Briefing Number:** _____

Chief Company Spokesperson: _____

Event Classification: **Category:** _____

Time Declared: _____

Cause: _____

Radiation Being Released? ☐ Yes ☐ No

Refer all questions regarding offsite radiation readings to respective County/State Emergency Operations Center.

Injured Person: **Name:** _____ **Time of Injury:** _____

Injury: _____

Where: _____

Present Condition: _____

Why Occurred: _____

Where is Injured Taken _____

Significant Plant Equipment Failure: _____

What/When/Why _____

_____

_____

Significant Noteworthy Item: _____

_____

_____

Rumor Control Coordinator Preparer: _____

JPIC Information manager Approval: _____

ATTACHMENT F
Page 2 of 2
JPIC NEWS BRIEFING SUMMARY SHEET

- This form is to be used by the JPIC Rumor Control Coordinator to document major or significant new information being provided by the JPIC Chief Company Spokesperson or JPIC Manager during a JPIC News Briefing that has changed since the last JPIC News Briefing. This information will be provided to the JPIC Media Contact Representative at the conclusion of a JPIC News Briefing for their use in disseminating event information over the telephones.

- The information needs to be **ACCURATE** and **CONCISE**. If you are unsure of the information, either confirm the information or omit the information.

- Only fill out the applicable information. Don't include information, which you would not expect to see in a News Announcement.

- This information is a secondary method to the written News Announcements as the way that Media Contact Representatives obtain information to be released over the telephones. This information may provide early summary notification to Media Contact Representatives before the issue is available on a written News Announcement. The written News Announcements will normally provide the details or additional extent of condition information on issues for the Media Contact Representatives to use.

  NOTE: This is not intended to be a substitute for the News Release Information, just an early warning of significant changes which you should see coming in a future News Announcement.

- Information should never be supplied to the Media Contact Representatives for their use over a telephone UNTIL AFTER it has been released via a written News Announcement or via a JPIC News Briefing.

- Any questions on this form or on the information to be supplied with this form should be brought to the JPIC Manager or JPIC Information Manager.

Beaver Valley Power Station

Unit 1/2

1/2-EPP-IP-9.5

ACTIVATION, OPERATION AND DEACTIVATION OF THE PENN POWER CUSTOMER ACCOUNT SERVICES DEPARTMENT

Document Owner
Manager, Emergency Preparedness

Revision Number	8
Level Of Use	General Skill Reference
Safety Related Procedure	Yes

CONTROLLED
BVPS UNIT 3

Beaver Valley Power Station	Procedure Number: 1/2-EPP-IP-9.5	
Title: ACTIVATION, OPERATION AND DEACTIVATION OF THE PENN POWER CUSTOMER ACCOUNT SERVICES DEPARTMENT	Unit: 1/2	Level Of Use: General Skill Reference
	Revision: 8	Page Number: i of i

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1.0 PURPOSE

1.1 This procedure provides guidance on the activation, operation and deactivation of the Penn Power Customer Account Services Department (CASD).

2.0 SCOPE

2.1 Penn Power Customer Account Services Department activation is required at an emergency condition, classified as a Site Area or General Emergency at Beaver Valley Power Station Unit 1, Unit 2 or as requested by the Emergency Director or Emergency/Recovery Manager, or...

2.2 As deemed necessary by the Senior Nuclear Communications Representative, or designee, in consultation with the Vice President, Nuclear or designee.

3.0 REFERENCES AND COMMITMENTS

3.1 References

3.1.1 Beaver Valley Power Station Emergency Preparedness Plan.

3.1.2 Title 10, Code of Federal Regulations, Part 50.

3.1.3 NUREG-0654/FEMA-REP-1 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."

3.1.4 NPDAP 5.3, News Release and Notification

3.1.5 1/2-EPP-IP-1.7 Emergency Response Organization Teams.

3.1.6 Condition Reports

- 01-4236
- 01-4230

3.2 Commitments

3.2.1 None

4.0 RECORDS AND FORMS

4.1 Records

4.1.1 None

4.2 Forms

4.2.1 None

5.0 RESPONSIBILITIES

5.1 CASD Representative

5.1.1 Is responsible for addressing incoming phone calls to the Company service board regarding an emergency condition at Beaver Valley Power Station as outlined in Attachment 1.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Precautions

6.1.1 All news announcements must be approved by either the designated Emergency Director (prior to Emergency Operations Facility (EOF) activation) or the Emergency/Recovery Manager (after EOF activation).

6.1.2 Any significant policy announcement on subjects other than plant conditions must be coordinated with First Energy Corporate Communications or designee in consultation with the Vice President, Nuclear, or designee.

6.2 Limitations

6.2.1 None

7.0 PREREQUISITES

8.0 PROCEDURE

8.1 Activation

8.1.1 Upon notification, CASD staff shall report to their respective offices.

8.2 Operation

8.2.1 The Customer Account Services Representative shall direct their staff to refer calls to the appropriate organization (Attachment 2).

8.3 Deactivation

8.3.1 Upon concurrence from the JPIC Manager, the CASD Staff shall be deactivated.

8.4 Final Conditions

8.4.1 This procedure shall be terminated after the following conditions have been met:

8.4.1.1 Normal plant operations have been or are in the process of being restored.

8.4.1.2 News media interest has diminished to such an extent that pre-emergency media relations procedures can again be used.

8.4.1.3 The CASD staff has been relieved of all duties associated with the development and distribution of news announcements.

ATTACHMENT A
Page 1 of 1
JOB GUIDELINES

CUSTOMER ACCOUNT SERVICES DEPARTMENT REPRESENTATIVE

1. Following notification from the EPIO contact, reports to the Customer Account Services Department.

2. Assures that the telephone service board is adequately staffed.

3. Following an emergency, issues a report of activities to BVPS Emergency Preparedness

ATTACHMENT B
Page 1 of 1
BVPS RESPONSE TO TELEPHONE INQUIRIES

DO NOT GIVE INFORMATION ON PLANT STATUS

IF CALLER IS:

- **MEDIA** → **Refer them to FirstEnergy Corporate Communications at (724) 682-5201.**
- **If JPIC is activated** → **Refer them to the Media Contact Representatives at:**

  (412) 604-4937, (412) 604-4938, (412) 604-4939, (412) 604-4940, OR (412) 604-4941
- **PUBLIC** → **Non-Emergency**

  Refer them to FirstEnergy Corporate Communications at (724) 682-5201

  → **Emergency Event – Questions about What to Do**

  - **Ask What State they are located in.**
  - **Refer them to the County Emergency Center:**
    - **Columbiana County, OH: (330) 424-7139**
    - **Hancock County, WVA: (304) 564-4054**
    - **Beaver County, PA: (724) 775-1700/ (724) 728-2421**

  → **EPP Event – Questions on Plant Status**

  Tell them to tune to their local television and radio stations for updates.

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