



SEP 19 2014

Beaver Valley Power Station

After Action Report/ Improvement Plan

Exercise Date - June 17, 2014

Radiological Emergency Preparedness (REP) Program



FEMA

Published August 28, 2014

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EXECUTIVE SUMMARY

On June 17, 2014, a full-scale evaluated Hostile Action Based (HAB) exercise was conducted in the 10-mile plume exposure pathway, Emergency Planning Zone (EPZ) around the Beaver Valley Power Station (BVPS) by the Federal Emergency Management Agency (FEMA), Region III. An Out-of-Sequence Exercise was conducted on May 5th, 6th and 7th, 2014.

The purpose of the exercise and the Out-of-Sequence demonstrations was to assess the State and local offsite response organizations' preparedness in responding to a radiological emergency. The exercise and Out-of-Sequence demonstrations were held in accordance with FEMA's policies and guidance concerning the exercise of State and local Radiological Emergency Response Plans (RERP) and procedures.

The most recent prior full-scale exercise at this site was conducted on June 19, 2012.

FEMA wishes to acknowledge the efforts of the many individuals in the Commonwealth of Pennsylvania and State of West Virginia; the risk jurisdictions of Beaver and Hancock Counties; the four (4) support counties, Allegheny, Butler, Lawrence and Washington, and the twenty-six (26) Commonwealth of Pennsylvania participating municipalities who were evaluated during this exercise.

Protecting the public health and safety is the full-time job of some of the exercise participants and an additional assigned responsibility for others. Still others have willingly sought this responsibility by volunteering to provide vital emergency services twenty four (24) hours to the communities of which they live. Cooperation and teamwork of all the participants was observed during this exercise.

The Commonwealth of Pennsylvania, State of West Virginia, and local organizations, except where noted in this report, demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no Deficiencies, two (2) Areas Requiring Corrective Action (ARCA's) and two (2) Planning Issues identified as a result of this exercise. Both ARCAs were successfully re-demonstrated during the exercise. Also, there were no outstanding ARCAs or Planning Issues from previous exercises.

SECTION 1: EXERCISE OVERVIEW

1.1 Exercise Details

Exercise Name

Beaver Valley Power Station

Type of Exercise

Plume

Exercise Date

June 17, 2014

Program

Department of Homeland Security/FEMA Radiological Emergency Preparedness Program

Scenario Type

Radiological Emergency

1.2 Exercise Planning Team Leadership

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1.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the Beaver Valley Power Station exercise:

State Jurisdictions

Ohio Emergency Management Agency
Pennsylvania 211
Pennsylvania Air National Guard
Pennsylvania Army National Guard
Pennsylvania Department of Agriculture
Pennsylvania Department of Corrections
Pennsylvania Department of Education
Pennsylvania Department of Environmental Protection
Pennsylvania Department of Environmental Protection, Bureau of Radiation
Pennsylvania Department of Health
Pennsylvania Department of Military and Veteran Affairs
Pennsylvania Department of Public Welfare
Pennsylvania Department of Transportation
Pennsylvania Emergency Management Agency
Pennsylvania Fish and Boat Commission
Pennsylvania Public Utility Commission
Pennsylvania State Police
Pennsylvania Turnpike
West Virginia Bureau for Public Health
West Virginia Department of Agriculture
West Virginia Department of Environmental Protection
West Virginia Department of Health and Human Resource

West Virginia Department of Transportation
West Virginia Division of Homeland Security and Emergency Management
West Virginia Division of Natural Resources
West Virginia Intelligence Fusion Center
West Virginia State Police

Risk Jurisdictions

Aliquippa Bureau of Fire
Aliquippa Police Department
Aliquippa Mayor's Office
Armstrong County Emergency Management Agency
Beaver County Animal Response Team
Beaver County Assessor's Office
Beaver County Behavioral Health
Beaver County Board of Commissioners
Beaver County Courthouse
Beaver County Department of Public Works
Beaver County District Attorney's Office
Beaver County Emergency Management Agency
Beaver County Emergency Services
Beaver County Hazardous Materials Team
Beaver County Law Department
Beaver County Sheriff's Department
Beaver County Transit Authority
Bethany Pike Fire Department
Brighton Township Board of Supervisors
Brighton Township Emergency Management Agency
Brighton Township Fire Department
Brighton Township Police Department
Brighton Township Public Works
Brooke County Community Emergency Response Team
Brooke County Emergency Management Agency
Chippewa Township Fire Department
Chippewa Township Police Department
City of Pittsburgh Emergency Management

City of Pittsburgh Hazardous Materials Team
Colliers Volunteer Fire Department
Darlington Volunteer Fire Department
Fayette County Emergency Management
Frankfort Springs Fire Department
Georgetown Fire Department
Greene Fire Department
Hancock County 911 Center
Hancock County Department of Health
Hancock County Emergency Medical Services
Hancock County Office of Emergency Management
Hancock County Senior Services
Hanover Fire Department
Hookstown Fire Department
Hopewell Fire Department
Independence Fire Department
Indiana County Emergency Management
Manchester Volunteer Fire Department
Marshall County Emergency Management Agency
Medic Rescue Emergency Medical Services
Mercer County Department of Public Safety
Midland Borough Emergency Management Agency
Midland Borough Fire Department
Midland Borough Police Department
Monaca Borough Emergency Management Agency
Monaca Borough Emergency Medical Services
Monaca Borough Police Department
Monaca Borough Public Works
Monaca Borough Volunteer Fire Department
New Castle Fire Department
New Cumberland Volunteer Fire Department
Oakland Volunteer Fire Department
Shippingport Fire Department
Ohio County Emergency Management Agency

Shippingport Police Department
Slippery Rock Emergency Medical Services
Slippery Rock Fire Department
Slippery Rock School District
South Heights Emergency Management Agency
South Heights Police Department
Tri-County South Emergency Medical Services

Support Jurisdictions

Allegheny County 911 Center
Allegheny County Airport Authority
Allegheny County Division of Computer Services
Allegheny County Emergency Services
Allegheny County Executive
Allegheny County Fire Academy
Allegheny County Fire Marshall's Office
Allegheny County Hazardous Materials Team
Allegheny County Health Department
Allegheny County Local Emergency Planning Committee
Allegheny County Office of Behavioral Health
Allegheny County Police Department
Allegheny County Port Authority
Allegheny County Sanitation Department
Butler County Commissioners
Butler County Department of Public Health
Butler County Emergency Management Agency
Butler County Public Works
Butler County Radiological, Oil and Hazardous Materials Response
Butler County Sherriff's Office
Lawrence County 911 Center
Lawrence County Department of Mental Health
Lawrence County Department of Public Safety
Lawrence County Emergency Management Agency
Lawrence County Sheriff's Office
North Beaver Volunteer Fire Department

Washington County Ambulance and Chair Service
Washington County Animal Response Team
Washington County Department of Public Safety
Washington County Department of Public Works

Private Organizations

American Red Cross
Beaver Valley Intermediate Unit
Bettis Atomic Power Laboratory
Canonsburg Hospital
Emergency Medical Services Institute
First Energy Nuclear Operating Company
Hospital Association of Pennsylvania
John D. Rockefeller Vo-Tech Career Center
Knowledge Center
Marshall University
Metropolitan Medical Response System
Penn State Extension
Radio Amateur Civil Emergency Services
Radio Emergency Associated Communication Team
Salvation Army Disaster Services
Slippery Rock University
Triple "A" Amateur Radio Association
University of Pittsburg Medical Center

Federal Jurisdictions

Federal Bureau of Investigation
National Weather Service - Charleston WV Forecast Office

SECTION 2: EXERCISE DESIGN SUMMARY

2.1 Exercise Purpose and Design

On December 7, 1979, the President directed the Federal Emergency Management Agency (FEMA) to assume the lead responsibility for all off-site nuclear planning and response. FEMA's activities were conducted pursuant to 44 Code of Federal Regulations (CFR) Parts 350, 351 and 352. These regulations are a key element in the Radiological Emergency Preparedness (REP) Program that was established following the Three Mile Island Nuclear Station accident in March, 1979.

44 CFR 350 establishes the policies and procedures for FEMA's initial and continued approval of State, and local governments' radiological emergency planning and preparedness for commercial nuclear power plants. This approval is contingent, in part, on State and local government participation in joint exercises with licensees.

FEMA's responsibilities in radiological emergency planning for fixed nuclear facilities include the following:

Taking the lead in offsite emergency planning and in the review and evaluation of Radiological Emergency Response Plans (RERPs) and procedures developed by State and local governments;

Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by State and local governments;

Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and coordinating the activities of the following Federal agencies with responsibilities in the radiological emergency planning process:

- U.S. Department of Commerce,
- U.S. Nuclear Regulatory Commission,
- U.S. Environmental Protection Agency,

- U.S. Department of Energy,
- U.S. Department of Health and Human Services,
- U.S. Department of Transportation,
- U.S. Department of Agriculture,
- U.S. Department of the Interior, and
- U.S. Food and Drug Administration.

Representatives of these agencies serve on the Region III Radiological Assistance Committee (RAC), which is chaired by FEMA.

A Radiological Emergency Preparedness (REP) exercise was conducted on June 17, 2014, to assess the capabilities of State and local emergency preparedness organizations in implementing their RERPs and procedures to protect the public health and safety during a radiological emergency involving Beaver Valley Power Station (BVPS). The purpose of this exercise report is to present the exercise results and findings on the performance of the off-site response organizations (OROs) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluator team, with final determinations made by the FEMA Region III RAC Chairperson and approved by FEMA Headquarters. These reports are provided to the NRC and participating States. State and local governments utilize the findings contained in these reports for the purposes of planning, training, and improving emergency response capabilities.

The criteria utilized in the FEMA evaluation process are contained in the following:

A. NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980;

B. “Radiological Emergency Preparedness Manual,” June 2013;

Section 1 of this report, entitled "Exercise Overview", presents the “Exercise Planning Team” and the “Participating Organizations”.

Section 2 of this report, entitled “Exercise Design Summary”, and includes the “Purpose and Design”, “Exercise Objectives, Capabilities, and Activities”, and the “Scenario Summary”.

Section 3 of this report, entitled “Analysis of Capabilities”, presents detailed “Exercise Evaluation and Results” information on the demonstration for each jurisdiction or functional entity evaluated in a jurisdiction-based, issue-only format (Criteria Evaluation Summaries).

Section 4 of this report, entitled "Conclusion" presents detailed information on the demonstration of applicable exercise evaluation areas at each jurisdiction or functional entity evaluated in a jurisdiction-based, issues-only format.

The final section of the report is comprised of the appendices, which present the following supplementary information: Exercise Timeline, Exercise Evaluators and Team Leaders List, Acronyms and Abbreviations, Exercise Plan and Improvement Plan as required.

2.2 Exercise Objectives, Capabilities and Activities

The objective of the 2014 Beaver Valley Power Station (BVPS) Hostile Action Based Exercise was to demonstrate the capabilities of State and local emergency management agencies to mobilize emergency management and emergency response personnel, to activate emergency operations centers and support facilities, and to protect the health, lives, and property of the citizens residing within the 10 - mile Emergency Planning Zone (EPZ).

To demonstrate the ability to communicate between multiple levels of government and provide timely, accurate, and sufficiently detailed information to the public, the emergency management agencies use a variety of resources, including radios, telephones, the Internet, the media, the Emergency Alert System (EAS), and the utility Alert and Notification System (ANS) Sirens. All of these communication resources were employed and evaluated. The EAS and ANS were simulated and media information was prepared but not actually released.

An essential capability of the Radiological Emergency Preparedness Program (REPP) is to evacuate, monitor and decontaminate, if necessary, and provide temporary care and shelter to displaced residents from the EPZ. The ability of the risk/support counties to mobilize personnel and resources to establish reception, monitoring and decontamination, and mass care centers was demonstrated.

The protection of school children is also a vital mission of the REPP. School districts and selected schools demonstrated the capability to communicate and coordinate the collection, evacuation, transportation and shelter of students attending schools within the EPZ. Provisions for students who live within the EPZ, but attend school outside were also evaluated.

2.3 Scenario Summary

The following is a summary of the postulated events for the Beaver Valley Power Station 2014 Evaluated Exercise. These events did NOT occur. All times are approximate.

Tuesday, June 17, 2014 – backshift staffing

Unit 1 at 100%, MOL, Protected Train B

- 20 days online

Unit 2 at 100%, BOL, Protected Train B

- 27 days online
- Boron Conc. is 1550 ppm
- RCS Leak Rate Identified - 0.10 gpm Unidentified Leak Rate - 0.01 gpm
- RCS activity – 0.144 uCi/ml with a DEI-131 of 1.00E-4 ?Ci/ml

An operations crew will be in the Unit 2 Simulator, all drill data for the emergency response facilities will be provided by controllers or by the simulator.

At 1700, the 2014 Beaver Valley Blue Team Evaluated Exercise will begin.

At 1708, a call from the NRC via the ENS line is received providing notification of a track of interest from NORAD. This track of interest is a large aircraft and is 28 minutes from Beaver Valley, which meets the criteria to be classified as an AIRCRAFT PROBABLE THREAT. The control room crew will enter the Airborne Threat procedure 100. At approximately 1713 the

Shift Manager is expected to declare an Alert under EAL HA1 and notify the states and counties. Both Unit 1 and Unit 2 will manually trip the reactors. All ERO personnel will be directed to report to their Alternative Facility – Site Inaccessible. Due to time of day and the fact that there is no outage in progress, 100.3 directs that normal egress methods continue for those personnel directed to evacuate the site. As a result of the aircraft being within 30 minutes, the control room is directed to call Beaver County 911 to place fire departments and medic rescue on standby.

Updates are provided to the control room (Unit 2 Simulator) that the aircraft is a Fed Ex cargo aircraft, Boeing 777F, with approximately 100 tons of cargo on board and a pilot and co-pilot aboard. The aircraft took off from Indianapolis, IN in route to Newark, NJ and is no longer communicating with any air traffic control personnel. The National Operations Center (NOC) will provide similar information to the State of Pennsylvania, Ohio, and West Virginia (simulated).

At approximately 1726 the NRC will inform the Unit 2 Simulator Control Room that the aircraft is within 10 minutes of the site. As a result all remaining personnel on site are told to TAKE COVER immediately. At 1731 the NRC will inform the Unit 2 Simulator Control Room that the aircraft is within 5 minutes of the site and has descended to 10,000 ft.

At approximately 1736 the Boeing 777F impacts the Unit 2 fuel building on the north side above and to the east of the roll-up door. The building sustains heavy damage and a small leak develops from the fuel pool. As the plane approached the left wing struck the overhead lines that supply the 'A' System Station Service Transformer (SSST, one supply of offsite power to Unit 2). This wing impacted the Protected Area boundary on the north west side of the site resulting in a section of the Protected Area fencing being completely destroyed. A fire burns in this area.

Debris from the impact strikes the 'B' SSST (remaining supply of offsite power to Unit 2), which is on fire, and the Service Water Valve Pit which is now inaccessible. Unit 2 has no offsite power available which results in the Unit 2 emergency diesel generators supplying both Unit 2 emergency buses.

There are additional fires burning on the roof of the remaining portion of the fuel building and on the north end of the Decon Building. After the impact, personnel are expected to assess the extent of the damage. Unit 1 is not directly affected by the impact.

The plane striking inside the Protected Area is a Hostile Action and meets the threshold for the declaration of a Site Area Emergency under HS1 at approximately 1746. Notifications are performed.

By approximately 1750 the Incident Command Post is fully established and communicating with the Emergency Director via the Central Alarm Station (CAS). Unit 2 will enter 100.4 Spent Fuel Pool, in addition to 100.3 Airborne Threat procedure, which calls for an inspection of the Spent Fuel Pool to assess damage.

Unit 2 will be assessing the damage and establishing make up flow to the fuel pool. Due to damage to the fire header in several places due to the impact and the loss of normal power, the only source of make up will be from the blender. The crew will attempt to line up this system but will encounter a problem with a manually operated valve. There will be no make-up source available until the ERO isolates damaged portions of the fire header to restore pressure. However, adequate fuel pool level exists and the fuel is not challenged at this time.

Firefighting efforts continue until approximately 1940 when damage to the fuel pool results in a large crack forming in an exposed portion of the fuel pool liner. This leak is very large and drains the pool rapidly to a height approximately 2 feet above the fuel. Radiation levels rise quickly in and around the spent fuel pool due to the loss of shielding. With no make up source available, the threshold for HG1.2 A HOSTILE ACTION has caused failure of spent fuel pool cooling systems and IMMEDIATE fuel damage is likely. No fuel damage will occur, nor will there be a radioactive release. The ED is expected to declare a General Emergency at approximately 1954 and provide a Protective Action Recommendation of "Shelter 2 miles, 360 degrees and 5 mile downwind wedge [FGHJK] AND advise the general public to administer KI in accordance with the State Plan."

At 2030, Operations personnel are able to isolate the damaged portion of the fire loop and supply a make up source of water for the fuel pool as well as for fire fighting.

At 2100, the 2014 Beaver Valley Evaluated Exercise will end.

SECTION 3: ANALYSIS OF CAPABILITIES

3.1 Exercise Evaluation and Results

The matrix presented in Table 3.1, on the following pages, presents the status of the exercise evaluation area criteria from the REP Exercise Evaluation Methodology that was scheduled for demonstration during this exercise by all participating jurisdictions and functional entities.

Exercise evaluation area criteria are listed by number and the demonstration status of the criteria is indicated by the use of the following letters:

(A) Area Requiring Corrective Action (ARCA): an observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety.

(D) Deficiency: an observed or identified inadequacy of organizational performance in an exercise that could cause a finding that offsite emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency to protect the health and safety of the public living in the vicinity of a nuclear power plant.

(M) Met: state of a REP exercise Evaluation Area Criterion indicating that participating ORO demonstrated all demonstration criteria for the Evaluation Area Criterion to the level required in the Extent-of-Play Agreement with no Deficiencies or ARCAs assessed in the current exercise and no unresolved prior ARCAs.

(N) Not Demonstrated: term applied to the states of a REP exercise Evaluation Area Criterion indicating that the ORO, for a justifiable reason, did not demonstrate the Evaluation Area Criterion, as required in the Extent-of-Play Agreement or at the two-year, six-year, or eight-year interval required in the FEMA REP Program Manual.

(P) Plan Issues: an observed or identified inadequacy in the ORO's emergency plan or implementing procedures, rather than in the ORO's performance. Plan Issues are not exercise issues and are required to be corrected through the revision of the appropriate plan or procedures during the next annual plan review and update, submitted for FEMA review, and reported in the State Annual Letter of Certification.

3.2 Summary Results of Exercise Evaluation

Contained in this section are the results and findings of the evaluations of all jurisdictions and locations that participated in the June 17, 2014, Hostile Action Based Radiological Emergency Preparedness (REP) Exercise. Also included are the Out-of-Sequence demonstrations which were conducted on May 5th, 6th and 7th, 2014. The exercise was conducted to demonstrate the ability of State, County and local jurisdictional Offsite Response Organizations (ORO) to respond to radiological anomalies within the 10 mile Emergency Planning Zone (EPZ) associated with the Beaver Valley Power Station (BVPS).

Each jurisdiction and functional entity was evaluated on the basis of its demonstration of the Exercise Evaluation Area Criteria contained in the REP Exercise Evaluation Methodology. Detailed information on the exercise evaluation area criteria and the Extent-of-Play Agreement are found in Appendix E. All activities were based on the plans and procedures and completed as they would have been in an actual emergency except as noted in the Extent-of-Play Agreement.

Table 3.1 - Summary of Exercise Evaluation (8 pages)

DATE: 2014-06-17 SITE: Beaver Valley Power Station, PA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		PA EOC	PAAACSEOCBRP	BRP BV EOF	PA JIC/RumCon	BV JPIC	BRP R3V	SFMT A SWR	SFMT B SWR	PA TACP	BC EOC	BC AEOC
Emergency Operations Management												
Mobilization	1a1	N	N		N	M	M	M	M		M	M
Facilities	1b1										M	M
Direction and Control	1c1	N	N	N			M				M	M
Communications Equipment	1d1	N	N	N	N	M	M	M	M	M	M	M
Equipment and Supplies to Support Operations	1e1	N	N	N		M	M	M	M	M	M	M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1		N	N							M	
Accident Assessment and PARs for the Emergency Event	2b1		N	N								
PAD decision-making process and coordination for the General Public	2b2	N	N									
PADs for disabilities & access/functional needs people	2c1	N									M	
Radiological Assessment & Decision-making for Ingestion Pathway	2d1											
Radiological Assessment & Decision-making for Relocation/Reentry/Return	2e1											
Protective Action Implementation												
Implementation of Emergency Worker Exposure Control	3a1						M	M	M	M	M	M
Implementation of KI PAD for Institutionalized Individuals/Public	3b1	N									M	M
Implementation of PADs for disabilities & access/functional needs people	3c1										M	M
Implementation of PADs for Schools	3c2										M	M
Implementation of Traffic & Access Control	3d1									M	M	M
Impediments to Evacuation	3d2									M	M	M
Availability & use of Commodity & Resource Information	3e1											
Preprinted Materials for Implementing PADs for Commodities & Resources	3e2											
Implementation of Relocation/Reentry/Return Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2		N	N			M					
Plume Phase Field Measurement, Handling, & Analyses	4a3							P	P			
Post Plume Phase Field Measurements & Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Activation of the Prompt Alert & Notification System	5a1	N									M	
RESERVED	5a2											
Activation of the Back-up ANS	5a3										M	
Activation of the Exception Area ANS	5a4											
Emergency Information & Instructions for the Public/Media	5b1	N			N	M					M	
Support Operations/Facilities												
Monitoring, Decontamination, & Registration of Evacuees	6a1											
Monitoring/Decontamination of Emergency Workers/Equipment/Vehicles	6b1											
Temporary Care of Evacuees	6c1											
Transportation/Treatment of Contaminated Injured Individuals	6d1											

Table 3.1 - Summary of Exercise Evaluation (Continued, page 2/8)

DATE: 2014-06-17 SITE: Beaver Valley Power Station, PA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		BC BBrBgBrVtwp EOC	BC BBrVpt TACP	BC BB BuRA	BC BrtnTwp EOC	BC CtrTwp EOC	BC CtrTwp TACP	BC ChpwaTwp EOC	BC ChTwp BuRA	BC Big6 EOC	BC HanTwp BuRA	BC IBr EOC
Emergency Operations Management												
Mobilization	1a1	M		M	M	M		M	M	M	M	M
Facilities	1b1	M			M	M		M		M		M
Direction and Control	1c1	M			M	M		M		M		M
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M	M	M
Equipment and Supplies to Support Operations	1e1	M	M	M	M	M	M	M	M	M	M	M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1											
Accident Assessment and PARs for the Emergency Event	2b1											
PAD decision-making process and coordination for the General Public	2b2											
PADs for disabilities & access/functional needs people	2c1											
Radiological Assessment & Decision-making for Ingestion Pathway	2d1											
Radiological Assessment & Decision-making for Relocation/Reentry/Return	2e1											
Protective Action Implementation												
Implementation of Emergency Worker Exposure Control	3a1	M	M	M	M	M	M	M	M	M	M	M
Implementation of KI PAD for Institutionalized Individuals/Public	3b1	M			M	M		M		M		M
Implementation of PADs for disabilities & access/functional needs people	3c1	M			M	M		M		M		M
Implementation of PADs for Schools	3c2	M			M	M		M		M		M
Implementation of Traffic & Access Control	3d1	M	M		M	M	M	M		M		M
Impediments to Evacuation	3d2	M	M		M	M	M	M		M		M
Availability & use of Commodity & Resource Information	3e1											
Preprinted Materials for Implementing PADs for Commodities & Resources	3e2											
Implementation of Relocation/Reentry/Return Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2											
Plume Phase Field Measurement, Handling, & Analyses	4a3											
Post Plume Phase Field Measurements & Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Activation of the Prompt Alert & Notification System	5a1											
RESERVED	5a2											
Activation of the Back-up ANS	5a3			M					M		M	
Activation of the Exception Area ANS	5a4											
Emergency Information & Instructions for the Public/Media	5b1											
Support Operations/Facilities												
Monitoring, Decontamination, & Registration of Evacuees	6a1											
Monitoring/Decontamination of Emergency Workers/Equipment/Vehicles	6b1											
Temporary Care of Evacuees	6c1											
Transportation/Treatment of Contaminated Injured Individuals	6d1											

Table 3.1 - Summary of Exercise Evaluation (Continued. page 3/8)

DATE: 2014-06-17 SITE: Beaver Valley Power Station, PA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated													
			BC Hpw/Twp EOC	BC MdndBr EOC	BC MncaBr EOC	BC MncaBr TACP	BC PTwpPHBrFBr EOC	BC FB BuRA	BC PT BuRA	BC PTwpPHBrFBr TACP	BC RcnTwpPttR Twp ShpBr EOC	BC RcnTwp BuRA	BC RcnTwp/Ptt Twp TACP
Emergency Operations Management													
Mobilization	1a1	M	M	M		M	M	M			M	M	
Facilities	1b1	M	M	M		M					M		
Direction and Control	1c1	M	M	M		M					M		
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M	M	M	M
Equipment and Supplies to Support Operations	1e1	M	M	M	M	M	M	M	M	M	M	M	M
Protective Action Decision Making													
Emergency Worker Exposure Control	2a1												
Accident Assessment and PARs for the Emergency Event	2b1												
PAD decision-making process and coordination for the General Public	2b2												
PADs for disabilities & access/functional needs people	2c1												
Radiological Assessment & Decision-making for Ingestion Pathway	2d1												
Radiological Assessment & Decision-making for Relocation/Reentry/Return	2e1												
Protective Action Implementation													
Implementation of Emergency Worker Exposure Control	3a1	M	M	M	M	M	M	M	M	M	M	M	M
Implementation of KI PAD for Institutionalized Individuals/Public	3b1	M	M	M		M					M		
Implementation of PADs for disabilities & access/functional needs people	3c1	M	M	M		M					M		
Implementation of PADs for Schools	3c2	M	M	M		M					M		
Implementation of Traffic & Access Control	3d1	M	M	M	M	M				M	M		M
Impediments to Evacuation	3d2	M	M	M	M	M				M	M		M
Availability & use of Commodity & Resource Information	3e1												
Preprinted Materials for Implementing PADs for Commodities & Resources	3e2												
Implementation of Relocation/Reentry/Return Decisions	3f1												
Field Measurement and Analysis													
RESERVED	4a1												
Field Team Management	4a2												
Plume Phase Field Measurement, Handling, & Analyses	4a3												
Post Plume Phase Field Measurements & Sampling	4b1												
Laboratory Operations	4c1												
Emergency Notification and Public Info													
Activation of the Prompt Alert & Notification System	5a1												
RESERVED	5a2												
Activation of the Back-up ANS	5a3						M	M				M	
Activation of the Exception Area ANS	5a4												
Emergency Information & Instructions for the Public/Media	5b1												
Support Operations/Facilities													
Monitoring, Decontamination, & Registration of Evacuees	6a1												
Monitoring/Decontamination of Emergency Workers/Equipment/Vehicles	6b1												
Temporary Care of Evacuees	6c1												

Unclassified
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Beaver Valley Power Station

Transportation/Treatment of Contaminated Injured Individuals	6d1																			
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Table 3.1 - Summary of Exercise Evaluation (Continued. page 4/8)

		BC ShpPuBr TACP	BC SBOG EOC	BC SBTOhvIBrGIBr BuRA	BC SHtsBr EOC	BCEWMDSDVFD	AC EOC (S)	AC RC SPFG	ACMDC SPFG	AC MCC SPHS	BiCo EOC (S)	BiCo RC SRU
<p align="center">DATE: 2014-06-17 SITE: Beaver Valley Power Station, PA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated</p>												
Emergency Operations Management												
Mobilization	1a1	M	M	M			M					M
Facilities	1b1		M		M	M	M					M
Direction and Control	1c1		M		M		M					M
Communications Equipment	1d1	M	M	M	M	M	M					M
Equipment and Supplies to Support Operations	1e1	M	M	M	M	M	M	M	M	M	M	M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1											
Accident Assessment and PARs for the Emergency Event	2b1											
PAD decision-making process and coordination for the General Public	2b2											
PADs for disabilities & access/functional needs people	2c1											
Radiological Assessment & Decision-making for Ingestion Pathway	2d1											
Radiological Assessment & Decision-making for Relocation/Reentry/Return	2e1											
Protective Action Implementation												
Implementation of Emergency Worker Exposure Control	3a1	M	M	M	M	M			M			
Implementation of KI PAD for Institutionalized Individuals/Public	3b1		M		M							
Implementation of PADs for disabilities & access/functional needs people	3c1		M		M							
Implementation of PADs for Schools	3c2		M		M							
Implementation of Traffic & Access Control	3d1	M	M		M							
Impediments to Evacuation	3d2	M	M		M							
Availability & use of Commodity & Resource Information	3e1											
Preprinted Materials for Implementing PADs for Commodities & Resources	3e2											
Implementation of Relocation/Reentry/Return Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2											
Plume Phase Field Measurement, Handling, & Analyses	4a3											
Post Plume Phase Field Measurements & Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Activation of the Prompt Alert & Notification System	5a1											
RESERVED	5a2											
Activation of the Back-up ANS	5a3			M								
Activation of the Exception Area ANS	5a4											
Emergency Information & Instructions for the Public/Media	5b1						M				M	
Support Operations/Facilities												
Monitoring, Decontamination, & Registration of Evacuees	6a1							M	M			M
Monitoring/Decontamination of Emergency Workers/Equipment/Vehicles	6b1					M						
Temporary Care of Evacuees	6c1									M		
Transportation/Treatment of Contaminated Injured Individuals	6d1											

Table 3.1 - Summary of Exercise Evaluation (Continued, page 5/8)

DATE: 2014-06-17 SITE: Beaver Valley Power Station, PA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		BiCo MCC SRHS	BiCo MDC SRHS	LrCo EOC (S)	LrCo RC MAHS	LrCo MDC MHS	LrCo MCC MAHS	WaCo EOC (S)	WaCo RC CFG	WaCo MDC THS	WaCo MCC THS	BC ASD
Emergency Operations Management												
Mobilization	1a1			M				M				
Facilities	1b1			M				M				
Direction and Control	1c1			M				M				
Communications Equipment	1d1			M				M				
Equipment and Supplies to Support Operations	1e1	M	M	M	M	M	M	M	M	M	M	
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1											
Accident Assessment and PARs for the Emergency Event	2b1											
PAD decision-making process and coordination for the General Public	2b2											
PADs for disabilities & access/functional needs people	2c1											
Radiological Assessment & Decision-making for Ingestion Pathway	2d1											
Radiological Assessment & Decision-making for Relocation/Reentry/Return	2e1											
Protective Action Implementation												
Implementation of Emergency Worker Exposure Control	3a1		M			M				M		
Implementation of KI PAD for Institutionalized Individuals/Public	3b1											
Implementation of PADs for disabilities & access/functional needs people	3c1											
Implementation of PADs for Schools	3c2											M
Implementation of Traffic & Access Control	3d1											
Impediments to Evacuation	3d2											
Availability & use of Commodity & Resource Information	3e1											
Preprinted Materials for Implementing PADs for Commodities & Resources	3e2											
Implementation of Relocation/Reentry/Return Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2											
Plume Phase Field Measurement, Handling, & Analyses	4a3											
Post Plume Phase Field Measurements & Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Activation of the Prompt Alert & Notification System	5a1											
RESERVED	5a2											
Activation of the Back-up ANS	5a3											
Activation of the Exception Area ANS	5a4											
Emergency Information & Instructions for the Public/Media	5b1			M				M				
Support Operations/Facilities												
Monitoring, Decontamination, & Registration of Evacuees	6a1		M		M	M			M	M		
Monitoring/Decontamination of Emergency Workers/Equipment/Vehicles	6b1											
Temporary Care of Evacuees	6c1	M					M				M	
Transportation/Treatment of Contaminated Injured Individuals	6d1											

Table 3.1 - Summary of Exercise Evaluation (Continued. page 6/8)

DATE: 2014-06-17 SITE: Beaver Valley Power Station, PA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		BC ASD AES	BC BASD	BC BASD BAJSHS	BC BSD	BC BSD PPS	BC HASD	BC HASD MRES	BC MdlndBrSD	BCMSDLPPAS	BC CVSD	BC CVSD CGP
Emergency Operations Management												
Mobilization	1a1											
Facilities	1b1											
Direction and Control	1c1											
Communications Equipment	1d1											
Equipment and Supplies to Support Operations	1e1											
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1											
Accident Assessment and PARs for the Emergency Event	2b1											
PAD decision-making process and coordination for the General Public	2b2											
PADs for disabilities & access/functional needs people	2c1											
Radiological Assessment & Decision-making for Ingestion Pathway	2d1											
Radiological Assessment & Decision-making for Relocation/Reentry/Return	2e1											
Protective Action Implementation												
Implementation of Emergency Worker Exposure Control	3a1											
Implementation of KI PAD for Institutionalized Individuals/Public	3b1											
Implementation of PADs for disabilities & access/functional needs people	3c1											
Implementation of PADs for Schools	3c2	M	M	M	M	M	M	M	M	M	M	M
Implementation of Traffic & Access Control	3d1											
Impediments to Evacuation	3d2											
Availability & use of Commodity & Resource Information	3e1											
Preprinted Materials for Implementing PADs for Commodities & Resources	3e2											
Implementation of Relocation/Reentry/Return Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2											
Plume Phase Field Measurement, Handling, & Analyses	4a3											
Post Plume Phase Field Measurements & Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Activation of the Prompt Alert & Notification System	5a1											
RESERVED	5a2											
Activation of the Back-up ANS	5a3											
Activation of the Exception Area ANS	5a4											
Emergency Information & Instructions for the Public/Media	5b1											
Support Operations/Facilities												
Monitoring, Decontamination, & Registration of Evacuees	6a1											
Monitoring/Decontamination of Emergency Workers/Equipment/Vehicles	6b1											
Temporary Care of Evacuees	6c1											
Transportation/Treatment of Contaminated Injured Individuals	6d1											

Table 3.1 - Summary of Exercise Evaluation (Continued, page 7/8)

DATE: 2014-06-17 SITE: Beaver Valley Power Station, PA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		BC NBASD	BC AASD	BC SSASD	BC SSASD SSMS	BC WBSD	BC WBSD WBJSHS	WVEOC	WVPIC	WVAAC	WV SFMTM	WV FAMTI
Emergency Operations Management												
Mobilization	1a1							M	M	M	M	M
Facilities	1b1							M				
Direction and Control	1c1							M		M	M	
Communications Equipment	1d1							M	M	M	M	M
Equipment and Supplies to Support Operations	1e1							M	M	M	M	M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1							M		M		
Accident Assessment and PARs for the Emergency Event	2b1							M		M		
PAD decision-making process and coordination for the General Public	2b2							M				
PADs for disabilities & access/functional needs people	2c1							M				
Radiological Assessment & Decision-making for Ingestion Pathway	2d1											
Radiological Assessment & Decision-making for Relocation/Reentry/Return	2e1											
Protective Action Implementation												
Implementation of Emergency Worker Exposure Control	3a1											M
Implementation of KI PAD for Institutionalized Individuals/Public	3b1							M				
Implementation of PADs for disabilities & access/functional needs people	3c1											
Implementation of PADs for Schools	3c2	M	M	M	M	M	M					
Implementation of Traffic & Access Control	3d1											
Impediments to Evacuation	3d2											
Availability & use of Commodity & Resource Information	3e1											
Preprinted Materials for Implementing PADs for Commodities & Resources	3e2											
Implementation of Relocation/Reentry/Return Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2										M	
Plume Phase Field Measurement, Handling, & Analyses	4a3											M
Post Plume Phase Field Measurements & Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Activation of the Prompt Alert & Notification System	5a1							M				
RESERVED	5a2											
Activation of the Back-up ANS	5a3											
Activation of the Exception Area ANS	5a4											
Emergency Information & Instructions for the Public/Media	5b1							M	M			
Support Operations/Facilities												
Monitoring, Decontamination, & Registration of Evacuees	6a1											
Monitoring/Decontamination of Emergency Workers/Equipment/Vehicles	6b1											
Temporary Care of Evacuees	6c1											
Transportation/Treatment of Contaminated Injured Individuals	6d1											

Table 3.1 - Summary of Exercise Evaluation (Continued. page 8/8)

DATE: 2014-06-17 SITE: Beaver Valley Power Station, PA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		HC EOC	HC TCP/ACP CCH	HC BuRA NFD	HCRC WHS	HC MDC WHSC	HC MCC WHS	HCEWMDC NCFD	HCHSJDRTVC	WV FAMT2	BC ICP	BC BgBr TACP
Emergency Operations Management												
Mobilization	1a1	M		M						M	M	
Facilities	1b1	M			M	M	M	M				
Direction and Control	1c1	M									M	
Communications Equipment	1d1	M	M	M				M		M	M	M
Equipment and Supplies to Support Operations	1e1	M	M	M	M	M	M	M		M		M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1	M										
Accident Assessment and PARs for the Emergency Event	2b1											
PAD decision-making process and coordination for the General Public	2b2	M										
PADs for disabilities & access/functional needs people	2c1	M										
Radiological Assessment & Decision-making for Ingestion Pathway	2d1											
Radiological Assessment & Decision-making for Relocation/Reentry/Return	2e1											
Protective Action Implementation												
Implementation of Emergency Worker Exposure Control	3a1	M	M	M		M		M		M	M	M
Implementation of KI PAD for Institutionalized Individuals/Public	3b1	M										
Implementation of PADs for disabilities & access/functional needs people	3c1	M										
Implementation of PADs for Schools	3c2	M							M			
Implementation of Traffic & Access Control	3d1	M	M									M
Impediments to Evacuation	3d2	M										M
Availability & use of Commodity & Resource Information	3e1											
Preprinted Materials for Implementing PADs for Commodities & Resources	3e2											
Implementation of Relocation/Reentry/Return Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2											
Plume Phase Field Measurement, Handling, & Analyses	4a3									M		
Post Plume Phase Field Measurements & Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Activation of the Prompt Alert & Notification System	5a1	M										
RESERVED	5a2											
Activation of the Back-up ANS	5a3	M		M								
Activation of the Exception Area ANS	5a4											
Emergency Information & Instructions for the Public/Media	5b1	M										
Support Operations/Facilities												
Monitoring, Decontamination, & Registration of Evacuees	6a1				M	M						
Monitoring/Decontamination of Emergency Workers/Equipment/Vehicles	6b1							M				
Temporary Care of Evacuees	6c1						M					
Transportation/Treatment of Contaminated Injured Individuals	6d1											

3.3 Criteria Evaluation Summaries

3.3.1 Pennsylvania Jurisdictions

3.3.1.1 Pennsylvania Emergency Operations Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: None
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.b.2, 2.c.1, 3.b.1, 5.a.1, 5.b.1.
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.2 Pennsylvania Accident Assessment Center, State Emergency Operations Center-Bureau of Radiation Protection

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: None
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 2.b.2, 4.a.2.
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.3 Pennsylvania Bureau of Radiation Protection Activities, Beaver Valley Emergency Operations Facility

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: None
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None

3.3.3.14 Washington County Monitoring and Decontamination Center, Trinity High School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.e.1, 3.a.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.3.15 Washington County Mass Care Center, Trinity High School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.e.1, 6.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.4 West Virginia Jurisdictions

3.3.4.1 State of West Virginia Emergency Operations Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 2.b.2, 2.c.1, 3.b.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.4.2 West Virginia Public Information Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 1.e.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.4.3 West Virginia Accident Assessment Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.4.4 West Virginia State Field Monitoring Team Management

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 4.a.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.4.5 West Virginia Field Air Monitoring Team 1

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 1.e.1, 3.a.1, 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.4.6 West Virginia Field Air Monitoring Team 2

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 1.e.1, 3.a.1, 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.5 Risk Jurisdictions

3.3.5.1 Hancock County Emergency Operations Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 5.a.1, 5.a.3, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.5.2 Hancock County Traffic and Access Control, County Court House

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.5.3 Hancock County Back-up Route Alerting, Newell Fire Department

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 1.e.1, 3.a.1, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.5.4 Hancock County Reception Center, Weir High School Complex

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.b.1, 1.e.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.5.5 Hancock County Monitoring and Decontamination Center, Weir High School Complex

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.b.1, 1.e.1, 3.a.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 6.a.1.

ISSUE NO.: 03-14-6a1-A-02

CRITERION: The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees.

CONDITION: The individual performing the survey did not follow the procedure in the correct sequence.

POSSIBLE CAUSE: The individual following the procedure missed a step and lead to this error.

REFERENCE: NUREG-0654/FEMA-REP-1, A.3; C.4; J.10.h; J.12; Hancock County Radiological Emergency Plan, Attachment 3, Enclosure 4

EFFECT: Contamination could be spread to areas that are maintained non-contaminated, with the potential to contaminate other individuals in the clean area.

CORRECTIVE ACTION DEMONSTRATED: After retraining the individual correctly followed the procedure.

- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.5.6 Hancock County Mass Care Center, Weir High School Complex

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.b.1, 1.e.1, 6.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.5.7 Hancock County Emergency Worker Monitoring and Decontamination Station, New Cumberland Fire Department

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.b.1, 1.d.1, 1.e.1, 3.a.1, 6.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.5.8 Hancock County, Hancock County Schools, John D Rockefeller Vo-Tech Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

SECTION 4: CONCLUSION

Based on the results of the exercise and a review of the offsite radiological emergency response plans and procedures submitted, FEMA Region III has determined they are adequate (meet the planning and preparedness standards of NUREG-0654/FEMA-REP-1, Revision 1, November 1980, as referenced in 44 CFR 350.5) and demonstrated reasonable assurance that those agencies can respond and protect the health, lives, and property of the residents of the Beaver Valley Power Station Emergency Planning Zone (EPZ).

APPENDIX A: IMPROVEMENT PLAN

Issue Number: 03-14-4a3-P-		Criterion: 4a3
<p>ISSUE: Field Team Operations Procedure BRP-ER-A-6.01 Rev. 2 Section 3.4 states: "In the event that contact with the Field Team Coordinator (FTC) is lost, the field monitoring teams shall not re-enter the plume if an airborne radioiodine concentration exceeds 1.0E-5 uCi/cc Iodine. Movement should be downwind or crosswind (most direct route)."</p>		
<p>RECOMMENDATION: Change the value in Field Team Operations procedure BRP-ER-A-6.01 Rev. 2 Section 3.4 from 1.0E-5 uCi/cc calculated value to 25,600 net counts per minute actual measurement. (25,600 net counts per minute was determined using Formula 2, Attachment 2: PA BRP – Air Sampling Data Log (R3V/EOC) from procedure BRP-ER-A-6.07 Rev. 0).</p>		
<p>CORRECTIVE ACTION DESCRIPTION:</p>		
CAPABILITY:	PRIMARY RESPONSIBLE AGENCY:	
CAPABILITY ELEMENT:	START DATE:	
AGENCY POC:	ESTIMATED COMPLETION DATE:	

Issue Number: 03-14-4a3-P-		Criterion: 4a3
<p>ISSUE: Field Team Operations Procedure BRP-ER-A-6.01 Rev. 2 Section 3.4 states: "In the event that contact with the Field Team Coordinator (FTC) is lost, the field monitoring teams shall not re-enter the plume if an airborne radioiodine concentration exceeds 1.0E-5 uCi/cc Iodine. Movement should be downwind or crosswind (most direct route)."</p>		
<p>RECOMMENDATION: Change the value in Field Team Operations procedure BRP-ER-A-6.01 Rev. 2 Section 3.4 from 1.0E-5 uCi/cc calculated value to 25,600 net counts per minute actual measurement. (25,600 net counts per minute was determined using Formula 2, Attachment 2: PA BRP – Air Sampling Data Log (R3V/EOC) from procedure BRP-ER-A-6.07 Rev. 0).</p>		
<p>CORRECTIVE ACTION DESCRIPTION:</p>		
CAPABILITY:	PRIMARY RESPONSIBLE AGENCY:	
CAPABILITY ELEMENT:	START DATE:	
AGENCY POC:	ESTIMATED COMPLETION DATE:	

APPENDIX B: EXERCISE TIMELINE

Table 1 - Exercise Timeline
DATE: 2014-06-17, SITE: Beaver Valley Power Station, PA

Emergency Classification Level or Event	Time Utility Declared	PA EOC	PAAACSEOCBRP	BRP BV EOF	BV JPIC	BC EOC	BC AEOC
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	1715	1737	1735	1804	N/A	1729	1739
Site Area Emergency	1740	1755	1754	1804	1804	1749	1755
General Emergency	1958	1958	1956	1959	2004	2006	2047
Simulated Rad. Release Started	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Simulated Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		1708	1708	1825	1813	1730	1753
Declaration of State of Emergency		1845	1845	1853	1850	1845	2000
Exercise Terminated		2100	2100	2050	2118	2122	2123
Early Precautionary Actions:		1740	1740	1751	N/A	1753	N/A
Shelter (Lockdown)		N/A	N/A	N/A	N/A	N/A	N/A
Waterways/Livestock		1753	N/A	1802	N/A	1826	N/A
1st A&N Decision:		1804	1804	N/A	1830	1804	2047
1st Siren Activation		1814	N/A	N/A	N/A	1814	N/A
1st EAS Message		1817	N/A	N/A	N/A	1817	N/A
2nd A&N Decision:		2039	2039	2045	2045	2039	N/A
2nd Siren Activation		2045	N/A	N/A	N/A	2045	N/A
2nd EAS Message		2048	N/A	N/A	N/A	2048	N/A
3rd A&N Decision:		N/A	N/A	N/A	N/A	N/A	N/A
3rd Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
3rd EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
KI Administration Decision: Emergency Worker		2039	2039	2045	2045	2039	2047
KI Administration Decision: General Public		2039	2039	2045	2045	2039	2047

Table 1 - Exercise Timeline
DATE: 2014-06-17, SITE: Beaver Valley Power Station, PA

Emergency Classification Level or Event	Time Utility Declared	BC BrtnTwp EOC	BC CtrTwp EOC	BC ChpwaTwp EOC	BC Big6 EOC	BC IBT EOC	BC HpwITwp EOC
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	1715	1751	N/A	1735	1736	1750	1751
Site Area Emergency	1740	1756	1751	1754	1753	1756	1856
General Emergency	1958	2017	2016	2016	2016	2016	2017
Simulated Rad. Release Started	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Simulated Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		1751	1802	1748	1749	1702	1717
Declaration of State of Emergency		2000	1959	1959	2004	1900	1857
Exercise Terminated		2110	2116	2124	2107	2123	2125
Early Precautionary Actions:		N/A	N/A	N/A	1802	N/A	N/A
Shelter (Lockdown)		N/A	N/A	N/A	N/A	N/A	N/A
Waterways/Livestock		N/A	N/A	N/A	1826	N/A	N/A
1st A&N Decision:		1814	2047	1812	1812	N/A	1942
1st Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
1st EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
2nd A&N Decision:		2045	N/A	2047	2047	N/A	2045
2nd Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
2nd EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
3rd A&N Decision:		N/A	N/A	N/A	N/A	N/A	N/A
3rd Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
3rd EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
KI Administration Decision: Emergency Worker		2047	2047	2047	2047	N/A	2045
KI Administration Decision: General Public		2047	2047	2047	2047	N/A	2045

Table 1 - Exercise Timeline
DATE: 2014-06-17, SITE: Beaver Valley Power Station, PA

Emergency Classification Level or Event	Time Utility Declared	BC MldndBr EOC	BC Mncabr EOC	BC PTwpPHBrFBBr EOC	BC RenTwpPtrTwp ShpBr EOC	BC SBOG EOC	BC SHtsBr EOC
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	1715	1740	1752	1750	1732	1735	1752
Site Area Emergency	1740	1756	1756	1759	1749	1755	1804
General Emergency	1958	2018	2017	2046	2013	2017	2017
Simulated Rad. Release Started	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Simulated Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		1741	1752	1753	1732	1735	1753
Declaration of State of Emergency		2004	1857	1857	1849	1849	1848
Exercise Terminated		2102	2123	2111	2110	2108	2107
Early Precautionary Actions:		N/A	1832	1830	1840	1901	N/A
Shelter (Lockdown)		N/A	N/A	N/A	N/A	N/A	N/A
Waterways/Livestock		N/A	N/A	N/A	1840	1901	N/A
1st A&N Decision:		1813	1812	1810	1812	2047	1813
1st Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
1st EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
2nd A&N Decision:		2048	2047	2046	2045	N/A	2046
2nd Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
2nd EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
3rd A&N Decision:		N/A	N/A	N/A	N/A	N/A	N/A
3rd Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
3rd EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
KI Administration Decision: Emergency Worker		2048	2047	2046	2045	2047	N/A
KI Administration Decision: General Public		2048	2047	2026	2045	2047	N/A

Table 1 - Exercise Timeline
DATE: 2014-06-17, SITE: Beaver Valley Power Station, PA

Emergency Classification Level or Event	Time Utility Declared	AC EOC (S)	BtCo EOC (S)	LrCo EOC (S)	WaCo EOC (S)	WV EOC	HC EOC
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	1715	1750	1748	1744	1757	1807	1807
Site Area Emergency	1740	1804	1800	1801	1807	2025	2025
General Emergency	1958	2007	2019	2006	2020	2015	2025
Simulated Rad. Release Started	N/A	N/A	N/A	N/A	N/A	N/A	2006
Simulated Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A	On-going
Facility Declared Operational		1700	1735	1800	1758	1802	1737
Declaration of State of Emergency		1848	1853	1848	1848	1849	1849
Exercise Terminated		2100	2100	2100	2106	2056	2106
Early Precautionary Actions:		1809	1808	1809	1809	1835	1835
Shelter (Lockdown)		N/A	N/A	N/A	N/A	N/A	N/A
Waterways/Livestock		1826	1826	1826	1809	1815	N/A
1st A&N Decision:		1814	1814	1814	1814	1816	1816
1st Siren Activation		N/A	N/A	N/A	N/A	N/A	1814
1st EAS Message		N/A	N/A	N/A	N/A	N/A	1817
2nd A&N Decision:		2045	2039	2045	2045	2039	2048
2nd Siren Activation		N/A	N/A	N/A	N/A	N/A	2045
2nd EAS Message		N/A	N/A	N/A	N/A	N/A	2048
3rd A&N Decision:		N/A	N/A	N/A	N/A	N/A	N/A
3rd Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
3rd EAS Message		N/A	N/A	N/A	N/A	N/A	N/A
KI Administration Decision: Emergency Worker		2045	2039	2045	2045	2033	2048
KI Administration Decision: General Public		2045	2039	2045	2045	2033	2048

APPENDIX C: EXERCISE EVALUATORS AND TEAM LEADERS

DATE: 2014-06-17, SITE: Beaver Valley Power Station, PA

LOCATION	EVALUATOR	AGENCY
Pennsylvania Emergency Operations Center	*Robert Neff	FEMA RIII
Pennsylvania Accident Assessment Center, State Emergency Operations Center-Bureau of Radiation Protection	Daryl Thome	ICFI
Pennsylvania Bureau of Radiation Protection Activities, Beaver Valley Emergency Operations Facility	*Roger Kowieski	ICFI
Pennsylvania Joint Information Center/Rumor Control	*Robert Neff	FEMA RIII
Beaver Valley Joint Public Information Center	Paul Nied	ICFI
Pennsylvania Bureau of Radiation Protection, Radiological Rapid Response Vehicle	*Martin Vyeniolo	FEMA RIII
PA State Field Monitoring Team A, South West Region	Kent Tosch	ICFI
PA State Field Monitoring Team B, South West Region	Reggie Rodgers	ICFI
Pennsylvania State Traffic and Access Control Points	Mark Dalton	ICFI
State of West Virginia Emergency Operations Center	*Larry Broockerd Kathy Duran Kerry Holmes	FEMA HQ FEMA RIII FEMA RIII
West Virginia Public Information Center	Cheryl Weaver	ICFI
West Virginia Accident Assessment Center	Joseph Keller	ICFI
West Virginia State Field Monitoring Team Management	Roy Smith	ICFI
West Virginia Field Air Monitoring Team 1	Kenneth Wierman	FEMA HQ
West Virginia Field Air Monitoring Team 2	Gary Goldberg	ICFI
Beaver County Emergency Operations Center	Carl Bebrich *Daniel Lerch Laurel Ryan Lee Torres Stephen Watts	FEMA RV FEMA RIII FEMA RIX FEMA RIII ICFI
Beaver County, Aliquippa Emergency Operations Center	Michael Burriss	ICFI
Beaver County, Beaver Borough, Bridgewater Borough, Vanport Township Emergency Operations Center	Terry Blackmon	ICFI
Beaver County, Beaver Borough/Vanport Township, Traffic and Access Control Point	Gregg Dawkins	ICF
Beaver County, Beaver Borough Back-up Route Alerting	Kenneth Wierman	FEMA HQ
Beaver County, Brighton Township Emergency Operations Center	Thomas Gahan	ICFI
Beaver County, Center Township Emergency Operations Center	Jon Christiansen Robert Swartz	ICFI FEMA RI
Beaver County, Center Township, Traffic and Access Control Point	Robert Swartz	FEMA RI
Beaver County, Chippewa Township Emergency Operations Center	Robert Lemeshka	ICFI
Beaver County, Chippewa Township, Back-up Route Alerting	John Price	FEMA RIII
Beaver County, Frankfort Springs Borough, Hanover Township, Georgetown Borough, Greene Township, Hookstown Borough, Independence Township Emergency Operations Center	David Jacobson	ICFI
Beaver County, Hanover Township Back-up Route Alerting	Robert Neff	FEMA RIII
Beaver County, Industry Borough Emergency Operations Center	Brenda Rembert	ICFI
Beaver County, Hopewell Township Emergency Operations Center	Debra Schneck	ICFI
Beaver County, Midland Borough Emergency Operations Center	Rosemary Samsel	ICFI
Beaver County, Monaca Emergency Operations Center	Michael Henry Danny Loomis	ICFI ICFI
Beaver County, Monaca Borough, Traffic and Access Control Point	Mark Dalton	ICFI

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Beaver County, Patterson Township, Patterson Heights Borough, Fallston Borough Emergency Operations Center	Carol D. Shepard Michele Skiermont	ICFI ICFI
Beaver County, Fallston Borough Back-up Route Alerting	Larry Broockerd	FEMA HQ
Beaver County, Patterson Township Back-up Route Alerting	Barton Freeman	FEMA RIII
Beaver County, Patterson Township/Patterson Heights Borough/Fallston Borough Traffic and Access Control Point	Michele Skiermont	ICFI
Beaver County, Raccoon Township/Potter Township/Shippingport Borough Emergency Operations Center	Joseph Lischinsky David Petta	ICFI ICFI
Beaver County, Raccoon Township Backup Route Alerting	Helen LaForge	FEMA RI
Beaver County, Raccoon Township/Potter Township Traffic and Access Control	David Petta	ICFI
Beaver County, Shippingport Borough, Traffic and Access Control	Don Daniel	FEMA RV
Beaver County, South Beaver Township/Ohioville Borough/Glasgow Borough Emergency Operations Center	Clayton Spangenberg John Wieczjorek	ICFI ICF
Beaver County, South Beaver Township/Ohioville Borough/Glasgow Borough Backup Route Alerting	Alonzo McSwain	FEMA HQ
Beaver County, South Heights Borough Emergency Operations Center	Mario Vigliani	ICFI
Beaver County Emergency Worker Monitoring and Decontamination Station, Darlington Volunteer Fire Department	*Martin Vyenielo	FEMA RIII
Lawrence County Mass Care Center, Mohawk Area High School	Danny Loomis	ICFI
Beaver County, Aliquippa School District	Daniel Lerch	FEMA RIII
Beaver County, Aliquippa School District, Aliquippa Elementary School	Daniel Lerch	FEMA RIII
Beaver County, Beaver Area School District	Kenneth Wierman	FEMA HQ
Beaver County, Beaver Area School District, Beaver Area Junior Senior High School	Kenneth Wierman	FEMA HQ
Beaver County, Blackhawk School District	John Price	FEMA RIII
Beaver County, Blackhawk School District, Patterson Primary School	John Price	FEMA RIII
Beaver County, Hopewell Area School District	Ryan Jones	FEMA - RI
Beaver County, Hopewell Area School District, Margaret Ross Elementary School	Ryan Jones	FEMA - RI
Beaver County, Midland Borough School District	Alonzo McSwain	FEMA HQ
Beaver County, Midland Borough School District, Lincoln Park Performing Arts School	Alonzo McSwain	FEMA HQ
Beaver County, Central Valley School District	Larry Broockerd	FEMA HQ
Beaver County, Central Valley School District, Center Grange Primary	Larry Broockerd	FEMA HQ
Beaver County, New Brighton Area School District	*Michael Shuler	FEMA RIII
Beaver County, Ambridge Area School District	*Michael Shuler	FEMA RIII
Beaver County, South Side Area School District	Helen LaForge	FEMA RI
Beaver County, South Side Area School District, South Side Middle School	Helen LaForge	FEMA RI
Beaver County, Western Beaver School District	Kathy Duran	FEMA RIII
Beaver County, Western Beaver School District, Western Beaver Junior/Senior High School	Kathy Duran	FEMA RIII
Hancock County Emergency Operations Center	Brian Hasemann *Tina Lai-Thomas Miriam Weston	FEMA RII FEMA RIII FEMA RII
Hancock County Traffic and Access Control, County Court House	Robert Neff	FEMA RIII
Hancock County Back-up Route Alerting, Newell Fire Department	Barton Freeman	FEMA RIII

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Hancock County Reception Center, Weir High School Complex	*Joseph Suders	FEMA RIII
Hancock County Monitoring and Decontamination Center, Weir High School Complex	*Martin Vyeniolo	FEMA RIII
Hancock County Mass Care Center, Weir High School Complex	*Joseph Suders	FEMA RIII
Hancock County Emergency Worker Monitoring and Decontamination Station, New Cumberland Fire Department	Patrick Taylor	ICFI
Hancock County, Hancock County Schools, John D Rockefeller Vo-Tech Center	Lee Torres	FEMA RIII
Beaver County, Incident Command Post	*Bridget Ahlgrim	FEMA HQ
Beaver County, Bridgewater Borough Traffic and Access Control	Gregg Dawkins	ICF
Allegheny County Emergency Operations Center	Barton Freeman	FEMA RIII
Allegheny Co Reception Center South Park Fair Grounds	Kathy Duran	FEMA RIII
Allegheny County Monitoring and Decontamination Center, South Park Fair Grounds	Michael Shuler	FEMA RIII
Allegheny County Mass Care Center, South Park High School	Kathy Duran	FEMA RIII
Butler County Emergency Operations Center	Michael Shuler	FEMA RIII
Butler County Reception Center, Slippery Rock University	Tina Lai-Thomas	FEMA RIII
Butler County Mass Care Center, Slippery Rock High School	Tina Lai-Thomas	FEMA RIII
Butler County Monitoring and Decontamination Center, Slippery Rock High School	*Joseph Suders	FEMA RIII
Lawrence County Emergency Operations Center	*Joseph Suders	FEMA RIII
Lawrence County Reception Center, Mohawk Area High School	Danny Loomis	ICFI
Lawrence County Monitoring and Decontamination Center, Mohawk High School	Patrick Taylor	ICFI
Washington County Emergency Operations Center	Lisa Hamilton	FEMA HQ
Washington County Reception Center County Fair Grounds	Ryan Jones	FEMA - RI
Washington County Monitoring and Decontamination Center, Trinity High School	Daniel Lerch	FEMA RIII
Washington County Mass Care Center, Trinity High School	Daniel Lerch	FEMA RIII
* Team Leader		

APPENDIX D: ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
AAC	Accident Assessment Coordinator
ACEOC	Allegheny County Emergency Operations Center
ACP	Access Control Points
AEOC	Aliquippa Emergency Operations Center
ALARA	As Low As Reasonable Achievable
ARC	American Red Cross
ARCA	Area Requiring Corrective Action
BAMS	Beaver Area Middle School
BAMSP	Beaver Area Middle School Principal
BASD	Beaver Area School District
BASDEOP	Beaver Area School District Emergency Operations Plan
BC	Beaver County
BCEMA	Beaver County Emergency Management Agency
BCEMD	Beaver County Emergency Management Director
BCEOC	Beaver County Emergency Operations Center
BT	Brighton Township
BVFD	Beaver Volunteer Fire Department
BVPP	Beaver Valley Power Plant
BVPS	Beaver Valley Power Station
CART	County Animal Response Team
CTPD	Center Township Police Department
CTVFD	Chippewa Township Volunteer Fire Department
DAD	Digital Alarming Dosimeter
DEMD	Deputy Emergency Management Director
DRD	Direct Reading Dosimeters
DVFD	Darlington Volunteer Fire Department
EAL	Emergency Action Level
EAS	Emergency Alert System
ECL	Emergency Classification Level
EMA	Emergency Management Agency
EMC	Emergency Management Coordinator
EMD	Emergency Management Director
EMS	Emergency Medical Services
EOC	Emergency Operations Center

EOF	Emergency Operation Facility
EOP	Emergency Operations Plan
EPLO	Emergency Preparedness Liaison Officer
EPZ	Emergency Planning Zone
ESF	Emergency Support Function
EVI	Emergency Vehicle International
EW	Emergency Workers
EWDS	Emergency Worker Decontamination Stations
EWMD	Emergency Worker Monitoring Decontamination
FD	Fire Department
FEMA	Federal Emergency Management Agency
FENOC	First Energy Nuclear Operating Company
FMT	Field Monitoring Team
FSO	Fire Services Officer
FTC	Field Team Coordinator
FTL	Field Team Leader
GE	General Emergency
GMRS	General Mobile Radio System
GPS	Global Positioning System
HAB	Hostile Action Based
HCEOC	Hancock County Emergency Operations Center
HCVFD	Hancock County Volunteer Fire Departments
HVFC	Hanover Volunteer Fire Company
IC	Incident Commander
ICP	Incident Command Post
IU	Intermediate Unit
JIC	Joint Information Center
JPIC	Joint Public Information Center
KC	Knowledge Center
MBPD	Monaca Borough Police Department
MCC	Mass Care Center
MSO	Medical Services Officer
MVFD	Manchester Volunteer Fire Department
NA	News Announcements
NBVFD	North Beaver Volunteer Fire Department
NCVFD	New Cumberland Volunteer Fire Department
NVFD	Newell Volunteer Fire Department
ORO	Offsite Response Organization
OSLD	Optically Stimulated Luminescent Dosimeter
OVFD	Oakland Volunteer Fire Department

Unclassified
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Beaver Valley Power Station

PA	Public Address
PAD	Protective Action Decision
PAR	Protection Action Recommendation
PD	Police Department
PEMA	Pennsylvania Emergency Management Agency
PEMARS	Pennsylvania Emergency Management Agency Radio System
PIO	Public Information Officer
PRD	Permanent Record Dosimeters
PSO	Police Services Officer
PSP	Pennsylvania State Police
PW	Public Works
PWO	Public Works Officer
RACES	Radio Amateur Civil Emergency Services
RC	Radiological Coordinator
REACT	Radio Emergency Associated Communications Team
REP	Radiological Emergency Preparedness
REPP	Radiological Emergency Preparedness Plan
RERP	Radiological Emergency Response Plan
RO	Radiological Officer
RSO	Radiological Services Officer
SAE	Site Area Emergency
SBVFD	South Beaver Volunteer Fire Department
SEOC	State Emergency Operations Center
SEVAN	Satellite Emergency Voice Alert Network
SHO	State Health Officer
SOP	Standard Operating Procedures
SR	State Road
SSRERC	School System Radiological Emergency Response Checklist
TAC	Technical Assessment Center
TC	Transportation Coordinator
TCP	Traffic Control Points
TEDE	Total Effective Dose Equivalent
TLD	Thermo Luminescent Dosimeter
TO	Transportation Officer
TSO	Transportation Services Officer
UC	Unified Command
VFD	Volunteer Fire Department
WV	West Virginia
WVEMA	West Virginia Emergency Management Agency
WVSEOC	West Virginia State Emergency Operations Center

APPENDIX E: EXERCISE PLAN

The enclosed Exercise Plan was created as an overall tool for facilitation and implementation of the 2014 Beaver Valley Power Station Hostile Action Based Exercise and to integrate the concepts and policies of the Homeland Security Exercise Evaluation Program with the Radiological Emergency Preparedness Program Exercise Methodology. The Exercise Plan was originally drafted and published by the Pennsylvania Emergency Management Agency (PEMA) and the West Virginia Department of Homeland Security and Emergency Management (WVDHSEM) as an independent document and is annexed here.

The "2014 Beaver Valley Power Station Hostile Action Based Exercise Extent-of- Play" was negotiated and agreed upon by FEMA Region III, PEMA, WVDHSEM and the Emergency Management Agencies of the Risk Counties. It is included as an Appendix of the Exercise Plan.