



Davis-Besse Nuclear Power Station After Action Report/ Improvement Plan

Exercise Date – May 2, 2017

Radiological Emergency Preparedness (REP) Program



FEMA

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EXECUTIVE SUMMARY

On May 2, 2017, a Radiological Emergency Preparedness (REP), Partial-Participation, Plume Exposure Pathway Exercise was conducted in the 10-Mile Emergency Planning Zone (EPZ) around the Davis-Besse Nuclear Power Station (DBNPS) by the U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA), Region V. The purpose of the exercise was to assess the level of preparedness of State and local jurisdictions in responding to a radiological emergency. This exercise was held in accordance with the DHS/FEMA policies and guidance concerning the exercise of State and local Radiological Emergency Response Plans (RERPs) and procedures.

The previous exercise at this site was conducted on May 5, 2015. The qualifying emergency preparedness exercise was conducted on November 28, 1984.

The DHS/FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. The State of Ohio, the Counties of Ottawa and Lucas, local municipalities, as well as various non-government entities and volunteers all contributed to the success of the 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 to their communities.

Cooperation and teamwork on the part of all participants was evident during this exercise.

This Final After Action Report/Improvement Plan contains the evaluation of the biennial exercise and the evaluation of the in sequence and out of sequence activities which are listed in the table of contents.

Except where noted in this report, the State and local organizations demonstrated knowledge of their emergency response plans and procedures and adequately implemented them.

The exercise resulted in no Level 1 Findings, no Level 2 Findings, and no Plan Issues for the State of Ohio and the Counties of Ottawa, Lucas, and Sandusky.

Section 1 describes the exercise basis and the State of Ohio portion of the 10-Mile EPZ around the Davis-Besse Nuclear Power Station. Section 2 provides an overview of the exercise, including details, the exercise planning team, and participating organizations.

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Section 3 summarizes the exercise design, including purpose, objectives, capabilities, and activities, and criteria-based evaluation summaries. Sections 4 and 5 of this report, provide detailed information regarding the Findings and Plan Issues and the Schedule of Corrective Actions.

SECTION 1: INTRODUCTION

1.1 Exercise Basis

On December 7, 1979, the President directed the FEMA to assume the lead responsibility for all offsite nuclear planning and response. The DHS/FEMA activities are conducted pursuant to 44 Code of Federal Regulations (CFR) Parts 350 "Review and Approval of State and Local Radiological Emergency Plans and Preparedness", 351 "Radiological Emergency Planning and Preparedness" and 352 "Commercial Nuclear Power Plants: Emergency Preparedness Planning". 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.

The FEMA Rule 44 CFR 350 establishes the policies and procedures for the DHS/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 governments' participation in joint exercises with Licensees.

The DHS/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 Preparedness 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 December 7, 2015 (Federal Register, Vol. 82, No. 88, May 9, 2017); and
- Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:
 - U.S. Department of Agriculture;
 - U.S. Department of Commerce;
 - U.S. Department of Energy;
 - U.S. Department of Health and Human Services;

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- U.S. Department of the Interior;
- U.S. Department of Transportation;
- U.S. Environmental Protection Agency;
- U.S. Food and Drug Administration; and
- U.S. Nuclear Regulatory Commission.

Representatives of these agencies serve on the DHS/FEMA Region V Regional Assistance Committee (RAC), which is chaired by DHS/FEMA.

Formal submission of the RERPs for the Davis-Besse Nuclear Power Station to FEMA Region V by the State of Ohio and involved local jurisdictions occurred on May 24, 1989. Formal approval of these RERPs was granted by FEMA on March 15, 1991, under 44 CFR 350.

A REP Partial-Participation Plume Exposure Pathway Exercise was conducted on May 2, 2017, and evaluated by DHS/FEMA to assess the capabilities of State and local offsite emergency preparedness organizations in implementing their RERPs and procedures to protect the public's health and safety during a radiological emergency involving the Davis-Besse Nuclear Power Station. The purpose of this exercise report is to present the exercise results and findings on the performance of the Offsite Response Organizations (ORO) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluation team, with final determinations made by the DHS/FEMA Region V RAC Chair, and approved by the DHS/FEMA Headquarters.

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

- 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; and
- FEMA P-1028 REP Program Manual, dated January 2016.

Section 1 of this report, entitled "Introduction", describes the exercise basis and the State of Ohio portion of the 10-Mile and 50-mile Emergency Planning Zones around the Davis-Besse Nuclear Power Station.

Section 2 of this report, entitled "Exercise Overview", presents information pertaining to the team that planned and coordinated the exercise. This section also provides a listing of all participating jurisdictions and functional entities that were evaluated.

Section 3 of this report, entitled "Exercise Design Summary", contains the purpose and design of the exercise, a description of the plume pathway EPZ and presents basic information and data relevant to the exercise scenario.

Section 4 of this report, entitled "Analysis of Capabilities," presents detailed information on the demonstration of applicable exercise criteria at each jurisdiction or functional entity evaluated in a jurisdiction-based, issues-only format. This section also contains: (1) descriptions of all Level 1 Findings, Level 2 Findings and/or Plan Issues (if any) assessed during this exercise, recommended corrective actions, and the State and local government's schedule of corrective actions, if applicable, for each identified exercise issue; and (2) descriptions of unresolved Level 2 Findings assessed during previous exercises and the status of the OROs efforts to resolve them.

Section 5 of this report, entitled "Conclusion" presents the DHS/FEMA summary of overall exercise conduct and results, as evaluated against the requirements of 44 CFR 350.

1.2 Emergency Planning Zone Description

The Davis-Besse Nuclear Power Station is located in Northwestern Ohio on the south shore of Lake Erie, within Ottawa County, near Oak Harbor, approximately 21 miles east-south-east of Toledo. The facility is located on 954 acres flanking Lake Erie; 733 acres of the site have been designated as protected wetlands called the Navarre Marsh; 582 acres of the site, consisting of dike marsh areas are leased to the U.S. Bureau of Sport Fisheries and Wildlife and form the Navarre unit of the Ottawa National Wildlife Refuge.

The area encompassing the 10-Mile Emergency Planning Zone (EPZ) includes part, or all, of the following communities: City of Port Clinton, Carroll, Erie, Bay, Benton, Harris, and Salem Townships in Ottawa County and Jerusalem Township in Lucas County. The 2010 permanent population of the 10-Mile EPZ was approximately 20,403. The lakeshore within the EPZ, with the exception of the plant site, is primarily devoted to recreational activities. The area is home to many marinas serving Lake Erie boaters and has significant amounts of land reserved for public use in the form of parks and wildlife refuges. Areas away from the lakefront are primarily agricultural in nature.

Commercial centers exist in Oak Harbor and Port Clinton. Industrial activity can be found at the Erie Industrial Park in Erie Township, the Lakewinds Industrial Park in Salem Township, the City of Port Clinton as well as in some smaller facilities throughout the EPZ.

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SECTION 2: EXERCISE OVERVIEW

2.1 Exercise Details

Exercise Name

Davis-Besse Nuclear Power Station

Type of Exercise

Plume Exposure Pathway

Exercise Date

May 2, 2017

Program

Department of Homeland Security/Federal Emergency Management Agency
Radiological Emergency Preparedness Program

Scenario Type

Radiological Emergency

2.2 Exercise Planning Team

Sean O'Leary

Chair, Regional Assistance Committee

DHS/FEMA Region V

536 South Clark Street, 7th Floor

Chicago, IL 60605

312-408-5389

sean.oleary@fema.dhs.gov

Edward Golinski

Exercise Director

DHS/FEMA Region V

536 South Clark Street, 7th Floor

Chicago, IL 60605

312-408-5353

edward.golinski@fema.dhs.gov

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Davis-Besse Nuclear Power Station

Dwaine Warren
Assistant Exercise Director
DHS/FEMA Region V
536 South Clark Street, 7th Floor
Chicago, IL 60605
312-408-5342
dwaine.warren@fema.dhs.gov

Stephen Tulley
Assistant Exercise Director
DHS/FEMA Region V
536 South Clark Street, 7th Floor
Chicago, IL 60605
312-408-4425
stephen.tulley@fema.dhs.gov

Carl Bebrich
Site Specialist
DHS/FEMA Region V
536 South Clark Street, 7th Floor
Chicago, IL 60605
312-408-5240
carl.bebrich@fema.dhs.gov

Chris Salz
Chief, Radiological Branch
Ohio Emergency Management Agency
2855 West Dublin-Granville Road
Columbus, OH 43235
614-799-3675
cmsalz@dps.ohio.gov

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John Flegal
Resident Radiological Analyst, Counties of Ottawa and Lucas
Ottawa County
315 Madison Street
Port Clinton, OH 43452
419-734-6903
jwflegal@dps.ohio.gov

Fred Petersen
Director
Ottawa County Emergency Management Agency
315 Madison Street
Port Clinton, OH 43452
419-734-6901
fpetersen@co.ottawa.oh.us

Patricia Moomey
Director
Lucas County Emergency Management Agency
2144 Monroe Street, 2nd Floor
Toledo, OH, 43604
419-213-6506
pmoomey@co.lucas.oh.us

David Dewitz
Offsite Utility Lead Controller
FirstEnergy Corporation
Senior Nuclear Specialist
5501 N State Route 2
Oak Harbor, OH 43449
419-344-5206
dcdewitz@firstenergycorp.com

2.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the DBNPS REP, Partial-Participation, Plume Exposure Pathway Exercise on May 2, 2017 and/or in out of sequence demonstrations on May 1, 2, and 3, 2017:

State of Ohio Participants:

- State of Ohio Organizations:
 - Ohio Department of Health
 - Ohio Department of Public Safety
 - Ohio Department of Transportation
 - Ohio Emergency Management Agency
 - Ohio Environmental Protection Agency
 - Ohio State Highway Patrol – Central Dispatch Center
- Private Sector Organizations:
 - FirstEnergy Corporation
 - First Energy Nuclear Operations Company

Ottawa County Participants:

- Ottawa County Organizations:
 - Ottawa County Administrator
 - Ottawa County Adult Probation Department
 - Ottawa County Auditor
 - Ottawa County Commissioners
 - Ottawa County Department of Job and Family Services
 - Ottawa County Emergency Management Agency
 - Ottawa County Engineer
 - Ottawa County Health Department
 - Ottawa County Information Technology
 - Ottawa County Job and Family Services
 - Ottawa County Juvenile Court – Probation Department
 - Ottawa County Building and Grounds Department
 - Ottawa County Court of Common Pleas – Adult Probation Department
 - Ottawa County Sanitary Engineering Department
 - Ottawa County Soil and Water Conservation District
 - Ottawa County Regional Planning Commission
 - Ottawa County Sheriff's Office
 - Ottawa County Transportation Agency

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- Local Organizations:
 - Allen-Clay Joint Fire District
 - Benton-Carroll-Salem School District
 - Carroll Township Fire and EMS
 - Catawaba Island Township Volunteer Fire Department
 - Danbury Township Volunteer Fire Department
 - Ottawa Sandusky Seneca (OSS) Solid Waste District
 - Ottawa County Transportation Agency
 - Port Clinton School District
- State of Ohio Organizations:
 - Ohio Environmental Protection Agency
 - Ohio Department of Health
 - Ohio Department of Natural Resources – Parks Division
 - Ohio Department of Natural Resources – Parks and Watercraft Division
 - Ohio Department of Natural Resources – Wildlife Division
 - Ohio Department of Transportation
 - Ohio Emergency Management Agency
 - Ohio National Guard
 - Ohio State Highway Patrol
 - Ohio State University Extension Service
- Federal Organizations:
 - Coast Guard Sector Detroit – United States Coast Guard
 - Coast Guard Station Marblehead – United States Coast Guard
- Volunteer Organizations:
 - American Red Cross – Ohio Buckeye Region Chapter
 - Ottawa County Amateur Radio Club – Amateur Radio Emergency Services
 - Ottawa County Community Emergency Response Team (CERT)
- Private Sector Organizations:
 - Edgewood Manor Nursing Center
 - FirstEnergy Nuclear Operating Company
 - Magruder Hospital
 - Ottawa Residential Services

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Lucas County Participants:

- Lucas County Organizations:
 - Lucas County Administrator
 - Lucas County Department of Education
 - Lucas County Department of Job and Family Services
 - Lucas County Emergency Management Agency
 - Lucas County Health Department
 - Lucas County Sheriff's Office
 - Lucas County Sheriff's Office Road Patrol
- Local Organizations:
 - Jerusalem Township Fire Department
 - Jerusalem Township Trustee
 - Oregon City School District
 - The City of Oregon Fire Department
 - Toledo Fire Department
- State of Ohio Organizations:
 - Ohio Department of Health
 - Ohio Emergency Management Agency
- Volunteer Organizations:
 - American Red Cross – Ohio Buckeye Region Chapter
 - Lucas County Amateur Radio Emergency Services
 - Salvation Army
- Private Sector Organizations:
 - FirstEnergy Corporation
 - FirstEnergy Nuclear Operating Company
 - University of Toledo

Sandusky County Participants:

- Sandusky County Organizations:
 - Sandusky County EMA
 - Sandusky County EMS
 - Fremont Fire Department
 - Sandusky Twp. Fire Department
 - Lindsey Fire Department
 - Sandusky County Health Department
 - Sandusky County ARES
 - Sandusky County CERT

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Private Sector Participants:

- Private Sector Organizations:
 - American Red Cross: Ohio Buckeye Region
 - WSOS CAC Inc.

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SECTION 3: EXERCISE DESIGN SUMMARY

3.1 Exercise Purpose and Design

The purpose of this exercise was to evaluate Player actions against current emergency response plans, procedures, and performance capabilities for a Nuclear Power Plant (NPP) related incident, and to comply with the requirements of 44 CFR 350 and the guidelines of NUREG 0654/FEMA-REP-1. Exercise Planners utilized the FEMA P-1028 Radiological Emergency Preparedness (REP) Program Manual (January, 2016) to develop this exercise.

The objective of the exercise was to demonstrate reasonable assurance that the public can be protected during a NPP emergency.

3.2 Exercise Objectives, Capabilities, and Activities

Exercise objectives, identified capabilities, and REP Criteria selected to be demonstrated are discussed in Appendix E "Exercise Plan."

The Exercise Planning Team selected objectives that focus on evaluation of emergency response procedures, identifying areas for improvement, and achieving a collaborative attitude. This exercise focused on Offsite Response Organizations (OROs) effectively demonstrating the following objectives:

- Emergency Operations Center Management,
- Protective Action Decision-Making,
- Protective Action Implementation,
- Emergency Notification and Public Information, and
- Support Operations and Facilities.

3.3 Scenario Summary

Results of a technical review of the Plume Phase Scenario, submitted by the State of Ohio and FirstEnergy Nuclear Operating Company on March 7, 2017, indicated that the scenario was adequate to support demonstration of DHS/FEMA requirements.

In addition, the extent-of-play agreements submitted by the State and County offsite response organizations, as revised April 5, 2017 (State of Ohio, February 17, 2017 (Lucas County), and February 28, 2017 (Ottawa County), respectively, indicate that the criteria selected for the May 2, 2017, REP Partial-Participation Biennial Plume Exposure Pathway Exercise are adequate and

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are therefore approved.

Appendix F "Scenario Timeline" contains a summary of the Exercise Scenario, which presents a simulated sequence of events that was used as the basis for invoking emergency response actions by DHS/FEMA Region V OROs in the Davis-Besse Nuclear Power Station (DBNPS) REP, Partial-Participation Plume Exposure Pathway Exercise conducted on May 2, 2017.

During the exercise, in addition to information and data provided through the DBNPS onsite scenario, controllers for the State of Ohio provided "inject messages" containing scenario events and/or relevant data to those positions or locations who would normally receive notification of such events. These inject messages were the method used for invoking additional specific response actions by OROs.

SECTION 4: ANALYSIS OF CAPABILITIES

4.1 Exercise Evaluation and Results

This section presents an overview of the results and findings of the evaluation of all State of Ohio and Ottawa, Lucas, and Sandusky County offsite response organizations that participated in the May 2, 2017, Davis-Besse Nuclear Power Station (DBNPS) REP, Partial-Participation, Plume Exposure Pathway Exercise. The exercise was conducted jointly by DHS/FEMA Regions V, the State of Ohio, and the Risk Counties of Ottawa and Lucas.

Each jurisdiction and functional entity was evaluated based on its demonstration of exercise criteria delineated in the FEMA P-1028 REP Program Manual, dated January 2016. Detailed information on the exercise criteria and the extent-of-play agreement used in this exercise can be found in Appendix E: Exercise Plan.

Presented below are definitions of the terms used in this report relative to the criteria demonstration status:

- **M – Met:** The status of a REP exercise Evaluation Area Criterion indicating that the participating ORO demonstrated all demonstration criteria for the Evaluation Area Criterion to the level required in the extent-of-play agreement with no Level 1 Findings, Level 2 Findings or Plan Issues assessed in the current exercise and no unresolved prior Level 2 Findings.
- **L1 – Level 1 Finding:** 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.
- **L2 – Level 2 Finding:** An observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety. Listing of the demonstrated exercise criteria under which a Level 2 Finding was assessed during the current exercise or Level 2 Finding assessed during prior exercises remain unresolved. Included is a description of any Level 2 Findings assessed during this exercise and the recommended corrective action to be demonstrated before or during the next biennial exercise.

- P – Plan Issue: An observed or identified inadequacy in the ORO’s emergency plan or implementing procedures, rather than in the ORO’s performance.
- N – Not Demonstrated: Exercise criteria that were not demonstrated as scheduled during this exercise and the reason(s) they were not demonstrated.
- Prior Issues – Resolved: Descriptions of Level 2 Findings assessed during previous exercises that were resolved and the corrective actions demonstrated, in this exercise.
- Prior Issues – Unresolved: Descriptions of Level 2 Findings assessed during prior exercises that were not resolved in this exercise. Included in the descriptions is the reason the Level 2 Finding remains unresolved and the recommended corrective actions to be demonstrated before or during the next exercise.

4.2 Summary Results of Exercise Evaluation

This subsection provides information on the evaluation of each participating jurisdiction and functional entity in a jurisdiction-based, issues-only format.

The matrix presented in Table 4.1-4.4 on the following page(s), presents the status of all exercise criteria from the FEMA P-1028 REP Program Manual, dated January 2016, which were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. The Exercise Criterion status box is blank if it was not scheduled for demonstration.

The DHS/FEMA has developed a standardized system for numbering exercise issues. This system is used to achieve consistency in numbering exercise issues among DHS/FEMA Regions and site-specific exercise reports within each Region. It also is used to expedite tracking of exercise issues on a nationwide basis.

The identifying number of Level 1 Findings, Level 2 Findings, and Plan Issues includes the following elements, with each element separated by a hyphen (e.g., 03-16-2b2-P-02):

- Plant Site Identifier – A two-digit number, corresponding to the Utility Billable Plant Site Code (18 for Davis-Besse Nuclear Power Station).
- Exercise Year – The last two digits of the year the exercise was conducted.
- Demonstration Criterion – The letters and number corresponding to the Demonstration Criterion in the six Exercise Evaluation Areas described in the FEMA P-1028 REP Program Manual, dated January 2016.

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- Issue Classification Identifier – (L1 = Level 1 Finding, L2 = Level 2 Finding, P = Plan Issue).
- Exercise Issue Identification Number – A separate two or three-digit indexing number assigned to each issue identified in the exercise.

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Table 4.1 – Summary of Exercise Evaluation – State of Ohio

DATE: May 2, 2017 SITE: Davis-Besse Nuclear Power Station M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue N: Not Demonstrated		State INP – Ohio State Highway Patrol	SEOC – Executive Room	SEOC – JIC Room – Public Information	SEOC – Assessment Annex – Dose Assessment Group	SEOC – Assessment Room – Sit/Unit	SEOC – Assessment Room – Comm. Check	SEOC – Operations Room	DBNPS JIC – Public Information/Media Briefings – State PIO	DBNPS JIC – Public Inquiry Hotline	Emergency Operations Facility (EOF) – State Liaisons	ODNR – DC Briefing/Dosimetry Distribution – Primary A&N – USCG Station Marblehead	ODNR – Response Operations Interview – Primary A&N – USCG Station Marblehead
Emergency Operations Management													
Mobilization	1a1	M	M	M	M	M		M	M	M	M		
Facilities	1b1												
Direction and Control	1c1		M		M	M					M		
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M	M	M	M
Equipment & Supplies to Support Operations	1e1	M	M	M	M	M	M	M	M	M	M	M	M
Protective Action Decision-Making													
EW Exposure Control Decisions	2a1		M		M			M					
PARs	2b1		M		M								
PADs	2b2				M								
PADs for Disabled/Functional Needs	2c1												
Ingestion PADs	2d1												
RRR Decisions	2e1												
Protective Action Implementation													
EW Exposure Control Implementation	3a1											M	M
KI Public/Institutionalized	3b1												
PAD Implementation Disabled/Functional Needs	3c1												
PAD Implementation Schools	3c2												
TACP Establishment	3d1												
Impediments	3d2												
Implement Ingestion PADs	3e1												
Ingestion Pathway Decisions	3e2												
Implementation of RRR Decisions	3f1												
Field Measurement & Analysis													
RESERVED	4a1												
Field Team Management	4a2												

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<p>DATE: May 2, 2017 SITE: Davis-Besse Nuclear Power Station</p> <p>M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue N: Not Demonstrated</p>			State INP – Ohio State Highway Patrol	SEOC – Executive Room	SEOC – JIC Room – Public Information	SEOC – Assessment Annex – Dose Assessment Group	SEOC – Assessment Room – SitUnit	SEOC – Assessment Room – Comm. Check	SEOC – Operations Room	DBNPS JIC – Public Information/Media Briefings – State PIO	DBNPS JIC – Public Inquiry Hotline	Emergency Operations Facility (EOF) – State Liaisons	ODNR – DC Briefing/Dosimetry Distribution – Primary A&N – USCG Station Marblehead	ODNR – Response Operations Interview – Primary A&N – USCG Station Marblehead
Field Team Operations	4a3													
Field Team Sampling	4b1													
Laboratory Operations	4c1													
Emergency Notification & Public Info														
Initial Alert & Notification	5a1													M
RESERVED	5a2													
Backup Alert & Notification	5a3													
Exception Area Alerting	5a4													
Subsequent Information & Instructions	5b1		M	M						M	M			
Support Operations & Facilities														
Reception Center Operations	6a1													
EW Monitoring & Decontamination	6b1													
Congregate Care	6c1													
Contaminated Injured Transport & Care	6d1													

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Table 4.2 – Summary of Exercise Evaluation – Ottawa County, Ohio

<p>DATE: May 2, 2017 SITE: Davis-Besse Nuclear Power Station</p> <p>M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue N: Not Demonstrated</p>		INP – Sheriff's Office Dispatch Center	EOC – Facilities	EOC – Assessment Room – State Liaison – Resident Rad Analyst	EOC – Assessment Room – State Liaison – ODH Liaison	EOC – Executive Group – Executive Room	EOC – Public Information Assistance	EOC – Public Inquiry Room	EOC – Operations Room	DBNPS JIC – Ottawa Co. PIO	Oak Harbor Police Dept. – DC Briefing	Oak Harbor Police Dept. – TACP	Allen-Clay Joint Fire Dept. – DC Briefing	Allen-Clay Joint Fire Dept. – EW Mon & Decon	Allen-Clay Joint Fire Dept. – EW Vehicle/Equip. Mon & Decon	Port Clinton City Schools – DC Briefing	Port Clinton Schools – Evacuation of Schools - Interview	OCTA – DC Briefing	Erie Twp. Volunteer Fire Dept. – DC Briefing	Erie Twp. Volunteer Fire Dept. – Route Verification	Erie Twp. Volunteer Fire Dept. – Backup Route Alerting	Port Clinton Fire Dept. – Backup Route Alerting – DC Briefing	Port Clinton Fire Dept. – Route Verification	Port Clinton Fire Dept. – Backup Route Alerting	Carroll Twp. EMS – Medical Services Drill – Transportation	Magruder Hospital – DC Briefing	Magruder Hospital – Medical Services – Facility	ODOT – DC Briefing	ODOT – TACP	Edgewood Manor Nursing Center – Protective Actions
Emergency Operations Management																														
Mobilization	1a1	M		M	M	M	M	M	M																					
Facilities	1b1		M																											
Direction and Control	1c1			M	M	M			M																					
Communications Equipment	1d1	M		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Equipment & Supplies to Support Operations	1e1	M		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Protective Action Decision-Making																														
EW Exposure Control Decisions	2a1					M																								
PARs	2b1																													
PADs	2b2					M																								
PADs for Disabled/Functional Needs	2c1					M																								
Ingestion PADs	2d1																													
RRR Decisions	2e1																													
Protective Action Implementation																														
EW Exposure Control Implementation	3a1								M		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
KI Public/Institutionalized	3b1								M																					M
PAD Implementation Disabled/Functional Needs	3c1								M																					M
PAD Implementation Schools	3c2								M								M													
TACP Establishment	3d1								M			M																	M	
Impediment	3d2								M																					

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Table 4.3 – Summary of Exercise Evaluation – Lucas County, Ohio

<p>DATE: May 2, 2017 SITE: Davis-Besse Nuclear Power Station</p> <p>M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue N: Not Demonstrated</p>			INP – Lucas Co. Sheriff's Office	EOC – Executive Room	EOC – Public Information Liaison	EOC – Public Inquiry	EOC – Operations Room	DBNPS JIC – Lucas Co. PIO	EOC – Traffic & Access Control Point – DC Briefing	EOC – Traffic & Access Control Point – Lucas County Road Patrol Deputy	Jerusalem Twp. Fire Dept. – DC Briefing	Jerusalem Twp. Fire Dept. – EW Mon. & Decon.	Jerusalem Twp. Fire Dept. – EW Vehicle / Equip. Mon. & Decon.	Oregon City School District / Transportation Dept. – DC Briefing	Oregon City School District / Transportation Dept. – Protective Actions for Schools
Emergency Operations Management															
Mobilization	1a1	M	M	M	M	M									
Facilities	1b1														
Direction and Control	1c1		M			M									
Communications Equipment	1d1	M	M	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	M	M
Protective Action Decision-Making															
EW Exposure Control Decisions	2a1		M												
PARs	2b1														
PADs	2b2		M												
PADs for Disabled/Functional Needs	2c1		M												
Ingestion PADs	2d1														
RRR Decisions	2e1														
Protective Action Implementation															
EW Exposure Control Implementation	3a1					M		M	M	M	M	M	M	M	M
KI Public/Institutionalized	3b1					M									
PAD Implementation Disabled/Functional Needs	3c1					M									M
PAD Implementation Schools	3c2					M									
TACP Establishment	3d1					M			M						
Impediments	3d2					M									
Implement Ingestion PADs	3e1														
Ingestion Pathway Decisions	3e2														
Implementation of RRR Decisions	3f1														

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Field Measurement & Analysis														
RESERVED	4a1													
Field Team Management	4a2													
Field Team Operations	4a3													
Field Team Sampling	4b1													
Laboratory Operations	4c1													
Emergency Notification & Public Info														
Initial Alert & Notification	5a1					M								
RESERVED	5a2													
Backup Alert & Notification	5a3													
Exception Area Alerting	5a4													
Subsequent Information & Instructions	5b1			M	M		M							
Support Operations & Facilities														
Reception Center Operations	6a1													
EW Monitoring & Decontamination	6b1										M	M		
Congregate Care	6c1													
Contaminated Injured Transport & Care	6d1													

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Table 4.4 – Summary of Exercise Evaluation – Sandusky County, Ohio

<p>DATE: May 2, 2017 SITE: Davis-Besse Nuclear Power Station</p> <p>M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue N: Not Demonstrated</p>		Reception Center – DC Briefing /Dosimetry Distribution	Reception Center – KI Distribution and Evacuee Registration	Reception Center – Evacuee Mon. & Decon	Reception Center – Evacuee Vehicle /Equip. Mon. & Decon.	Congregate Care – American Red Cross
	Emergency Operations Management					
	Mobilization	1a1				
	Facilities	1b1				
	Direction and Control	1c1	M			
Communications Equipment	1d1	M	M	M	M	M
Equipment & Supplies to Support Operations	1e1	M	M	M	M	M
Protective Action Decision-Making						
EW Exposure Control Decisions	2a1					
PARs	2b1					
PADs	2b2					
PADs for Disabled/Functional Needs	2c1					
Ingestion PADs	2d1					
RRR Decisions	2e1					
Protective Action Implementation						
EW Exposure Control Implementation	3a1	M		M	M	
KI Public/Institutionalized	3b1		M			
PAD Implementation Disabled/Functional Needs	3c1					
PAD Implementation Schools	3c2					
TACP Establishment	3d1					
Impediments	3d2					
Implement Ingestion PADs	3e1					
Ingestion Pathway Decisions	3e2					
Implementation of RRR Decisions	3f1					
Field Measurement & Analysis						
RESERVED	4a1					
Field Team Management	4a2					
Field Team Operations	4a3					

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<p>DATE: May 2, 2017 SITE: Davis-Besse Nuclear Power Station</p> <p>M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue N: Not Demonstrated</p>		Reception Center – DC Briefing /Dosimetry Distribution	Reception Center – KI Distribution and Evacuee Registration	Reception Center – Evacuee Mon. & Decon	Reception Center – Evacuee Vehicle /Equip. Mon. & Decon.	Congregate Care – American Red Cross
Field Team Sampling	4b1					
Laboratory Operations	4c1					
Emergency Notification & Public Info						
Initial Alert & Notification	5a1					
RESERVED	5a2					
Backup Alert & Notification	5a3					
Exception Area Alerting	5a4					
Subsequent Information & Instructions	5b1					
Support Operations & Facilities						
Reception Center Operations	6a1		M	M	M	
EW Monitoring & Decontamination	6b1					
Congregate Care	6c1					M
Contaminated Injured Transport & Care	6d1					

4.3 Criteria Evaluation Summaries

4.3.1 Risk Jurisdiction – State of Ohio

4.3.1.1 State Initial Notification Point – Ohio State Highway Patrol

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.2 State Emergency Operations Center (SEOC) – Executive Room

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, 5.b.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.3 SEOC – Joint Information Center (JIC) Room – Public Information

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. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.4 SEOC – Assessment Annex – Dose Assessment Group

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, 2.b.2
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.5 SEOC – Assessment Room – Situation Unit

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.6 SEOC – Assessment Room – Communications Check

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

- a. MET: 1.d.1, 1.e.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.7 SEOC – Operations Room

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, 2.a.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.8 DBNPS JIC – Public Information/Media Briefing – State Public Information Officer

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. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.9 DBNPS JIC – Public Inquiry Hotline

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. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.10 DBNPS Emergency Operations Facility – State Liaisons

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.11 ODNR – DC Briefing/Dosimetry Distribution – Primary Alert & Notification (Lake Erie) – U.S. Coast Guard Station – Marblehead

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.1.12 ODNR – Response Operations Interview – Primary Alert & Notification (Lake Erie) – U.S. Coast Guard Station – Marblehead

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, 5.a.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES

4.3.2 Risk Jurisdiction – Ottawa County

4.3.2.1 Initial Notification Point – Sheriff's Office Dispatch 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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.2 EOC – Facilities

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

- a. MET: 1.b.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.3 EOC – Assessment Room – State Liaison – Resident Radiological Analyst

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.4 EOC – Assessment Room – State Liaison – Ohio Department of Health

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

- h. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1
- i. LEVEL 1 FINDINGS: None
- j. LEVEL 2 FINDINGS: None
- k. PLAN ISSUES: None
- l. NOT DEMONSTRATED: None
- m. PRIOR ISSUES RESOLVED: None
- n. PRIOR ISSUES UNRESOLVED: None

4.3.2.5 EOC – Executive Group – Executive Room

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.c.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.6 EOC – 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. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.7 EOC – Public Inquiry Room

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. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.8 EOC – Operations Room

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, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 5.a.1, 5.b.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.9 DBNPS JIC – Ottawa County Public Information Officer

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

- a. MET: 1.d.1, 1.e.1, 5.b.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.10 Oak Harbor Police Dept. – Dosimetry Coordinator (DC) Briefing/Dosimetry Distribution

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.11 Oak Harbor Police Dept. – Traffic & Access Control Point

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. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.12 Allen-Clay Joint Fire District – DC Briefing/Dosimetry Distribution – Genoa Bus Garage

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.13 Allen-Clay Joint Fire District – Emergency Worker Monitoring and Decontamination – Genoa Bus Garage

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, 6.b.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.14 Allen-Clay Joint Fire Department – Emergency Worker Vehicle/Equipment Monitoring and Decontamination – Genoa Bus Garage

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, 6.b.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.15 Port Clinton City Schools – DC Briefing/Dosimetry Distribution

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.16 Port Clinton City Schools – Evacuation of Schools – Interview

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.c.2
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.17 Ottawa Co. Transportation Agency – DC Briefing/Dosimetry Distribution – Bus Garage

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.18 Erie Township Volunteer Fire Dept. – DC Briefing/Dosimetry Distribution – Backup Route Alerting

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.19 Erie Township Volunteer Fire Dept. – Route Verification

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, 5.a.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.20 Erie Township Volunteer Fire Dept. – Backup Route Alerting

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, 5.a.3
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.21 Port Clinton Fire Dept. – DC Briefing/Backup Route Alerting

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.22 Port Clinton Fire Dept. – Route Verification

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, 5.a.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.23 Port Clinton Fire Dept. – Backup Route Alerting

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, 5.a.3
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.24 Carroll Township EMS – Medical Services Drill – Transportation

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, 6.d.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.25 Magruder Hospital – DC Briefing – Medical Services Drill – Facility

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.26 Magruder Hospital – Medical Services Drill – Facility

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, 6.d.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.27 Ohio Department of Transportation (ODOT) – DC Briefing/Dosimetry Distribution – ODOT Garage

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.28 ODOT – Traffic & Access Control Point – ODOT Garage

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. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.2.29 Edgewood Manor Nursing Center – Protective Actions for Persons with Access/Functional Needs

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

- a. MET: 1.d.1, 1.e.1, 3.b.1, 3.c.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3 Risk Jurisdiction – Lucas County

4.3.3.1 Initial Notification Point – Sheriff's Office Dispatch 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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3.2 EOC – Executive Room

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.2, 2.c.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3.3 EOC – Public Information

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. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

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4.3.3.4 EOC – Public Inquiry

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. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3.5 EOC – Operations Room

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, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 5.a.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3.6 DBNPS JIC – Lucas County Public Information Officer

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

- a. MET: 1.d.1, 1.e.1, 5.b.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3.7 EOC – Traffic & Access Control Point – DC Briefing/Dosimetry Distribution

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3.8 EOC – Traffic & Access Control Point – Lucas County Road Patrol Deputy

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. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3.9 Jerusalem Township Fire Dept. – DC Briefing/Dosimetry Distribution

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3.10 Jerusalem Township Fire Dept. – Emergency Worker Monitoring and Decontamination

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, 6.b.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3.11 Jerusalem Township Fire Dept. – Emergency Worker Vehicle Monitoring and Decontamination

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, 6.b.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.3.12 Oregon City School District/Transportation Dept. – DC Briefing/Dosimetry Distribution – Oregon Bus Garage

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

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**4.3.3.13 Oregon City School District/Transportation Dept. – Protective Actions for Schools
– Oregon Bus Garage**

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.c.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.4 Support Jurisdiction – Sandusky County

4.3.4.1 Reception Center – DC Briefing/Dosimetry Distribution – Fremont/Sandusky Township/Lindsey Fire Dept.'s – Fremont Ross High School

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
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.4.2 Reception Center – Potassium Iodide (KI) Distribution and Evacuee Registration – Sandusky Co. Health Dept./American Red Cross – Fremont Ross High School

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

- a. MET: 1.c.1, 1.d.1, 1.e.1, 3.b.1, 6.a.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.4.3 Reception Center – Evacuee Monitoring and Decontamination – Fremont/Sandusky Township/Lindsey Fire Dept.'s – Fremont Ross High School

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, 6.a.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.4.4 Reception Center – Evacuee Vehicle/Equipment Monitoring and Decontamination – Fremont/Sandusky Township/Lindsey Fire Dept.'s – Fremont Ross High School

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, 6.a.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

4.3.4.5 Congregate Care Center – American Red Cross – Fremont Middle School

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

- a. MET: 1.d.1, 1.e.1, 6.c.1
- b. LEVEL 1 FINDINGS: None
- c. LEVEL 2 FINDINGS: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

SECTION 5: CONCLUSION

This section summarizes the findings from the evaluation of all jurisdictions and functional entities that participated in the May 2, 2017, DBNPS Radiological Emergency Preparedness, Partial-Participation, Plume Exposure Pathway exercise. The purpose of the exercise was to test the offsite emergency response capabilities of State and local governments in the 10-Mile EPZ surrounding the Davis-Besse Nuclear Power Station.

The exercise resulted in no Level 1 Findings, no Level 2 Findings, and no Plan Issues for the State of Ohio and the Counties of Ottawa, Lucas, and Sandusky.

One Plan Issue for the State of Ohio (03-16-2b2-P-02) from a past exercise remains open.

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APPENDIX A: IMPROVEMENT PLAN

This appendix presents the findings from the of the evaluation of all jurisdictions and functional entities that participated in the May 2, 2017, Radiological Emergency Preparedness, Partial-Participation, Plume Exposure Pathway Exercise to test the offsite emergency response capabilities of State and local governments in the 10-Mile EPZ surrounding the Davis-Besse Nuclear Power Station, recommended corrective actions, and a schedule of corrective actions for the identified Primary Responsible Agency.

There were no Level 1 Findings, no Level 2 Findings, and no Plan Issues identified for the State of Ohio and the Counties of Ottawa, Lucas, and Sandusky.

No Level 2 Findings were identified for the State of Ohio and the Counties of Ottawa, Lucas, and Sandusky that were successfully re-demonstrated during the exercise

One Plan Issue for the State of Ohio (03-16-2b2-P-02) from a past exercise remains open, as follows:

Plan Issue: 03-16-2b2-P-02	Criterion: 2.b.2
CONDITION: Ohio Department of Health Procedure 10-RAD-01, "Distribution and Use of potassium iodide (KI) for the 10-Mile Emergency Planning Zone Population" (dated April 10, 2015) does not contain threshold values for Committed Dose Equivalent (CDE) that would trigger a recommendation for the use of KI for the public.	
RECOMMENDATION: Add thyroid CDE from the EPA Protective Action Guides to ODH Procedure 10-RAD-01 and designate if values used are for child thyroid or adult thyroid.	
SCHEDULE OF CORRECTIVE ACTIONS: Prior to next biennial REP exercise in which the Assessment Room staff participates partially or fully, the State of Ohio will revise Ohio Department of Health Procedure 10-RAD-01, "Distribution and Use of potassium iodide (KI) for the 10-Mile Emergency Planning Zone Population" (dated April 10, 2015) to contain threshold values for Committed Dose Equivalent (CDE) that would trigger a recommendation for the use of KI for the public, and submit the revise procedure to FEMA for review.	

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CORRECTIVE ACTION DESCRIPTION: Ohio Department of Health Procedure 10-RAD-01 was superseded by policy directive 10-BEHRP-01, dated August 12, 2016, and includes the guidance to advise KI use by institutionalized populations and emergency workers when there is “significant probability of a radioactive material release results in a CDE of 5 rem child thyroid.” While consistent with FDA guidance. Sec. VI.C.1 of 10-BEHRP-01 omits the general population from those covered by the CDE of 5 rem child thyroid standard to recommend KI use. Consequently, prior Plan Issue 03-16-2b2-P-02 remains unresolved.	
CAPABILITY: Operational Coordination	PRIMARY RESPONSIBLE AGENCY: Ohio Department of Health
CORE CAPABILITY ELEMENT: Environmental Response/Health and Safety REP ASSESSMENT AREA: Protective Action Decision-Making	ESTIMATED COMPLETION DATE: The Ohio Department of Health agreed to update 10BEHRP-01 during its Fall 2017 review cycle. The update will be completed by December 31, 2017.
AGENCY POC: Pamela Hintz	

APPENDIX B: EXERCISE TIMELINE

Table B-1, below, presents the times at which key events and activities occurred during the DBNPS Radiological Emergency Preparedness, Partial-Participation, Plume Exposure Pathway Exercise conducted on May 2, 2017.

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TABLE B-1: Timeline for Davis-Besse Nuclear Power Station Exercise 2017

Date and Site: May 2, 2017 – Davis-Besse Nuclear Power Station

Emergency Classification Level Event or Action	Time Utility Declared	Time that Notification Was Received or Action Was Taken. All Times are Eastern Daylight Time (EDT)							
		EOF	SEOC ASSESS MENT Group	SEOC EXEC Group	SEOC SitUnit	Ottawa County	Lucas County	SEOC JIC	DBNPS JIC
Unusual Event:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert:	0809	N/A	0825	0829	0825	0826	0823	0845	0923
Site Area Emergency:	1028	1029	1044	1046	1050	1044	1044	1044	1033
General Emergency:	1213	1214	1223	1228	1242	1226	1225	1219	1216
Release of Rad Material Started:	1028	1045	1046	1044	-----	1044	-----	1050	1116
▪ From Containment Pathway									
▪ From Vent Pathway	1211	1211	1217	1228	1229	1227	1225	1228	1226
Release of Rad Material Terminated:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational:		0910	0941	0915	0912	0846	0922	0850	0925
Declaration of State/Local Emergency:		1240	1100	1100	1103	1046	1119	1103	1120 [S] 1112 (O-Co)
Exercise Terminated		1345	1347	1358	1358	1347	1350	1358	1350
Early Precautionary Action Recommendations:									
1. Relocate School Children:		N/A	N/A	N/A	N/A	1051	1057	1200	1055
2. Restrict Boating Traffic:		1213	0859	0850	N/A	0905	0917	0850	1015
3. Restrict Air and Rail Traffic:		N/A	N/A	1110	N/A	1211	1211	1110	1250
4. Close Parks:		1213	0859	0851	N/A	0905	0917	0850	1015
5. Livestock Advisory:		1240	1100	1056	1102	1125	1125	1137	1125
General Information Message Only: “Monitor EAS within 10-Mile EPZ”		1100	1053	1054	N/A	1053	1055	1054	1252
1 st Siren Activation:		N/A	1101	1105	N/A	1105	1105	N/A	N/A
1 st EAS Message: B		N/A	1108	1108	N/A	1108	1108	N/A	N/A
1 st Protective Action Recommendation: State PAR[s] to County: Evac 1, 2, 10, 12; KI to the Public, Institutionalized Persons & EWs		1244	1235	1234	1242	1237	1236	1236	N/A

LEGEND: NA = ECL/Event/Action Not Applicable at Location ----- = Time Not Reported

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TABLE B-1: Timeline for Davis-Besse Nuclear Power Station Exercise 2017 [Cont'd]

Date and Site: May 2, 2017 – Davis-Besse Nuclear Power Station

Event / Action	Time that Notification Was Received or Action Was Taken. All Times are Eastern Daylight Time (EDT)							
	EOF	SEOC ASSESS MENT Group	SEOC EXEC Group	SEOC SitUnit	Ottawa County	Lucas County	SEOC JIC	DBNPS JIC
1 st Protective Action Decision[s] -- County PAD[s]: <input checked="" type="checkbox"/> Evacuate Sub-Areas: 1, 2, 10, 12 DRD Correction Values: NONE	1254	1242	1241	N/A	1238	1238	1241	1252
2 nd Siren Activation:	N/A	1247	1247	N/A	1247	1247	1247	1252
2 nd EAS Message:	N/A	1250	1250	N/A	1250	1250	1250	1252
D (Evacuate) Sub-Areas: 1, 2, 10, 12	N/A	1250	1250	N/A	1250	1250	1250	1252
KI Administration Recommendation:								
KI Emergency Workers: <input checked="" type="checkbox"/> PAR/PAD: Sub-Area[s]: 1, 2, 10, 12	1244	1242	1236	N/A	1244	N/A	PAR/PAD 1236/1241	1252
KI Institutionalized Persons: <input checked="" type="checkbox"/> PAR/PAD: Sub-Area[s]: 1, 2, 10, 12	1244	1242	1236	N/A	1244	N/A	PAR/PAD1 236/1241	1252
KI General Public: <input checked="" type="checkbox"/> PAR/PAD: Sub-Area[s]: 1, 2, 10, 12	1244	1242	1236	N/A	1244	N/A	PAR/PAD 1236/1241	1252

LEGEND: NA = ECL/Event/Action Not Applicable at Location ----- = Time Not Reported

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APPENDIX C: EXERCISE EVALUATION TEAM

This appendix presents a list of the personnel who managed the evaluation process and evaluated the Davis-Besse Nuclear Power Station REP, Partial-Participation, Plume Exposure Pathway Exercise on May 2, 2017. The organization each of the personnel represents is indicated by the following abbreviations.

DHS/FEMA U.S. Department of Homeland Security/Federal Emergency Management Agency

ICFI ICF International, Inc.

Exercise Management

MANAGEMENT TITLE	NAME	ORGANIZATION
Regional Assistance Committee, Chair	Sean O’Leary	DHS/FEMA
Exercise Director	Edward Golinski	DHS/FEMA
Assistant Exercise Director	Stephen Tulley	DHS/FEMA
Assistant Exercise Director	Dwaine Warren	DHS/FEMA
Ohio Site Specialist	Carl Bebrich	DHS/FEMA
Team Leader – State of Ohio	Karl Rabenhorst	DHS/FEMA
Team Leader – Ottawa County	Don Daniel	DHS/FEMA
Team Leader – Lucas County	James King	DHS/FEMA

Exercise Evaluators

LOCATION	EVALUATOR	AGENCY
State of Ohio		
State INP – Ohio State Highway Patrol	Mark Dalton	ICFI
SEOC – Executive Room	Bruce Swiren	ICFI
SEOC – JIC Room – Public Information	Thomas Reynolds	ICFI
SEOC – Assessment Annex – Dose Assessment Group	Marcy Campbell	ICFI
SEOC – Assessment Room – SitUnit	Mark Dalton	ICFI

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LOCATION	EVALUATOR	AGENCY
SEOC – Assessment Room – MARCS COMM Check	Mark Dalton	ICFI
SEOC – Operations Room	Marcy Campbell	ICFI
DBNPS JIC – Public Information/Media Briefings – State PIO	Deborah Schneck	ICFI
DBNPS JIC – Public Inquiry Hotline	Frank Cordaro	ICFI
Emergency Operations Facility (EOF) – State Liaisons	Jill Leatherman	ICFI
ODNR – DC Briefing/Dosimetry Distribution – Primary A&N – USCG Station Marblehead	Ryan Jones	DHS/FEMA
ODNR – Response Operations Interview – Primary A&N – USCG Station Marblehead	Robert Walker	ICFI
Ottawa County		
Initial Notification Point – Sheriff's Office Dispatch Center	William McDougal	DHS/FEMA
EOC – Assessment Room – State Liaison – Ohio EMA Resident Rad Analyst	David Stuenkel	ICFI
EOC – Assessment Room – State Liaison – ODH Liaison	David Stuenkel	ICFI
EOC – Executive Group – Executive Room	Rebecca Thompson	ICFI
EOC – Public Information Assistance	Lenora Borchardt	ICFI
EOC – Public Inquiry Room	Lenora Borchardt	ICFI
EOC – Operations Room	David Persaud	DHS/FEMA
EOC – Operations Room	William McDougal	DHS/FEMA
DBNPS JIC – Ottawa County PIO	Deborah Schneck	ICFI
Oak Harbor Police Dept. – DC Briefing/Dosimetry Distribution	Frank Cordaro	ICFI
Oak Harbor Police Dept. – Traffic & Access Control Point	Michael Henry	ICFI
Allen-Clay Joint Fire District – DC Briefing/Dosimetry Distribution – Genoa Bus Garage	Michael Howe	DHS/FEMA
Allen-Clay Joint Fire District – Emergency Worker Monitoring/Decontamination Genoa – Bus Garage	Paul Ward	DHS/FEMA
Allen-Clay Joint Fire District – Emergency Worker Vehicles/Equipment Monitoring/Decontamination	Kenneth Wierman	DHS/FEMA
Port Clinton City Schools – DC Briefing/Dosimetry Distribution	Thomas Gahan	ICFI
Port Clinton City Schools – EV-2 School Interview	Thomas Gahan	ICFI

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LOCATION	EVALUATOR	AGENCY
Ottawa County Transportation Agency – DC Briefing/Dosimetry Distribution – OCTA Bus Garage	Thomas Gahan	ICFI
Erie Township Volunteer Fire Dept. – DC Briefing/Dosimetry Distribution – OCTA Bus Garage	Kevin Reed	ICFI
Erie Township Volunteer Fire Dept. – Route Verification	Brenda Rembert	ICFI
Erie Township Volunteer Fire Dept. – Backup Route Alerting	Brenda Rembert	ICFI
Port Clinton Fire Dept. – DC Briefing/Backup Route Alerting	Michael Henry	ICFI
Port Clinton Fire Dept. – Route Verification	Brian Clark	ICFI
Port Clinton Fire Dept. – Backup Route Alerting	Brian Clark	ICFI
Carroll Township EMS – MS-1 Drill – Transportation	Richard Watts	ICFI
Magruder Hospital – DC Briefing/Dosimetry Distribution – MS-1 Drill – Facility	Kent Tosch	ICFI
Magruder Hospital – MS-1 Drill – Facility	Kent Tosch	ICFI
ODOT – DC Briefing/Dosimetry Distribution – ODOT Garage	Carol Shepard	ICFI
ODOT – Traffic & Access Control Point – ODOT Garage	Ryan Jones	DHS/FEMA
Edgewood Manor Nursing Center – Protective Actions for Persons with Access/Functional Needs	Daniel Loomis	ICFI
Lucas County		
Initial Notification Point – Sheriff's Office Dispatch Center	David Ortman	DHS/FEMA
EOC – Executive Room	Janet Hlavaty-LaPosa	DHS/FEMA
EOC – Public Information Liaison	Henry Christiansen	ICFI
EOC – Public Inquiry	Henry Christiansen	ICFI
EOC – Operations Room	Terry Blackmon	ICFI
EOC – Operations Room	David Ortman	DHS/FEMA
DBNPS JIC – Lucas County PIO	Deborah Schneck	ICFI
EOC – Traffic & Access Control Point – DC Briefing/Dosimetry Distribution	Robert Walker	ICFI
EOC – Traffic & Access Control Point – Lucas County Road Patrol Deputy	Kevin Reed	ICFI
Jerusalem Township Fire Dept. – DC Briefing/Dosimetry Distribution	Mike Howe	DHS/FEMA

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LOCATION	EVALUATOR	AGENCY
Jerusalem Township Fire Dept. – Emergency Worker Monitoring and Decontamination	Deborah Blunt	ICFI
Jerusalem Township Fire Dept. – Emergency Worker Vehicle Monitoring and Decontamination	Kenneth Wierman	DHS/FEMA
Oregon City School District/Transportation Dept. – DC Briefing/Dosimetry Distribution – Oregon Bus Garage	Richard Watts	ICFI
Oregon City School District/Transportation Dept. – Protective Actions for Schools – Oregon Bus Garage	Carol Shepard	ICFI
Sandusky County		
Reception Center – DC Briefing/Dosimetry Distribution – Fremont/Sandusky Township/Lindsey Fire Dept.'s – Fremont Ross High School	Cheryl Weaver	ICFI
Reception Center – KI Distribution and Evacuee Registration – Sandusky Co. Health Dept./American Red Cross – Fremont Ross High School	Cheryl Weaver	ICFI
Reception Center – Evacuee Monitoring and Decontamination – Fremont/Sandusky Township/Lindsey Fire Dept.'s – Fremont Ross High School	Paul Ward	DHS/FEMA
Reception Center – Evacuee Vehicle Monitoring and Decontamination – Fremont/Sandusky Township/Lindsey Fire Dept.'s – Fremont Ross High School	Deborah Blunt	ICFI
Congregate Care Center – American Red Cross – Fremont Middle School	Daniel Loomis	ICFI

APPENDIX D: ACRONYMS AND ABBREVIATIONS

This appendix presents a list of the acronyms used in this AAR/IP.

ACRONYM	MEANING
A&N	Alert & Notification
AAR/IP	After Action Report/Improvement Plan
ACJFD	Allen-Clay Joint Fire District
ARC	American Red Cross
ARES	Amateur Radios Emergency Service
CAD	Computer Aided Dispatch
CCC	Congregate Care Center
CDE	Committed Dose Equivalent
cm	Centimeter(s)
cpm	counts per minute
CR	County Road
Cs	Cesium
DBNPS	Davis-Besse Nuclear Power Station
DC	Dosimetry Coordinator
DHS	Department of Homeland Security
DRD	Direct-Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Alert System
ECL	Emergency Classification Level
ED	Executive Director
EDE	Effective Dose Equivalent
EDT	Eastern Daylight Time
EG	Executive Group
EMA	Emergency Management Agency
EMD	Emergency Management Director
EMS	Emergency Medical Services
EMT	Emergency Medical Technician
ENDEX	End of Exercise
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPZ	Emergency Planning Zone

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ACRONYM	MEANING
ER	Emergency Room
ESF	Emergency Support Function
ETVFD	Erie Township Volunteer Fire Department
EV-2	Reference to FEMA REP Guidance Memorandum – GM EV-2, Protective Actions for School Children, November 13, 1986
EW	Emergency Worker
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FENOC	FirstEnergy Nuclear Operations Company
FFD	Fremont Fire Department
FMT	Field Monitoring Team
GE	General Emergency
GM	Geiger-Mueller [radiation detection devise]
HF	High Frequency
Hr	Hour
IC	Incident Commander
ICFI	ICF International
INF	Initial Notification Form
INP	Initial Notification Point
IP	Internet Protocol
IPSC	Watch Office Section Chief
IT	Information Technology
JIC	Joint Information Center
JTFD	Jerusalem Township Fire Department
KI	potassium iodide
LCSO	Lucas County Sheriff's Office
LEADS	Law Enforcement Automated Data Services
M/D	Monitoring/Decontamination
MARCS	Multi-Agency Radio Communications System
MARCS-IP	Multi-Agency Radio Communications System – Internet Protocol
MIDAS	Meteorological Information and Dose Assessment System
MHz	megahertz
MS-1	Medical Services-1 Drill
mR	milli-Roentgen(s)
mg	milligram(s)
μCi	micro (10 ⁻⁶) Curie(s)
μR	micro (10 ⁻⁶) R/micro Roentgen
MS-1	Medical Services-1 Drill

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ACRONYM	MEANING
MTC	Monitoring Team Communicator
NOAA	National Oceanic and Atmospheric Administration
NRO	Natural Resources Officer
OSCC	Ottawa County Communications Center
OCE	Office of the County Engineer
OCHD	Ottawa County Health Department
OSCD	Oregon City School District
OCTA	Ottawa County Transportation Agency
ODH	Ohio Department of Health
ODNR	Ohio Department of Natural Resources
ODOT	Ohio Department of Transportation
OFD	Oregon Fire Department
OHPD	Oak Harbor Police Department
ODPS	Ohio Department of Public Safety
ODOT	Ohio Department of Transportation
ONG	Ohio National Guard
OR	Operations Room
ORO	Offsite Response Organization(s)
OSHP	Ohio State Highway Patrol
PA	Public Address [audio systems]
PAD	Protective Action Decision
PAD	Protective Action Decision
PAG	Protective Action Guide
PAR	Protective Action Recommendations
PCFD	Port Clinton Fire Department
PDA/FN	Persons with Disabilities and Access/Functional Needs
PIA	Public Information Assistant
PIC	Public Information Center
PIL	Public Information Liaison
PIO	Public Information Officer
PIR	Public Inquiry Representative
PPE	Personal Protective Equipment
PRD	Permanent Record Dosimeter
PSAP	Public Safety Answering Point(s)
R	Roentgen
RABD	Radiological Assessment Branch Director
RAC	Regional Assistance Committee

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ACRONYM	MEANING
RACES	Radio Amateur Civil Emergency Service
RASCAL	Radiological Assessment System for Consequence Analysis
rem	roentgens equivalent man
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
RO	Radiological Officer
RPT	Radiation Protection Technician
RRA	Resident Radiological Analyst
RVT	Route Verification Team
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
SNB	Special New Broadcast
SNM	Special News Message
SOG	Standard Operating Guide/Suggested Operational Guide
SOP	Standard Operating Procedures(s)
SR	State Road
SU	Situation Unit
TACP	Traffic Access/Control Pointt
TD	Transportation Director
TEDE	Total Effective Dose Equivalent
TLD	ThermoLuminescent Dosimeter
TM	Transportation Manager
TMC	Transportation Maintenance Center
TTY/TDD	Teletypewriter/Telecommunication Device for the Deaf
UHF	Ultra High Frequency
USCG	United States Coast Guard
VHF	Very high frequency

APPENDIX E: EXERCISE PLAN

This appendix presents the State of Ohio and Ottawa and Lucas County Extent-of-Play Agreements and lists the exercise criteria that were scheduled for demonstration in the Davis-Besse Nuclear Power Station, Radiological Emergency Preparedness, Partial-Participation, Plume Exposure Pathway Exercise on May 2, 2017, and the offsite extent-of-play agreements accepted by DHS/FEMA Region V on April 14, 2017. The exercise criteria, contained in the DHS/FEMA P-1028 REP Program Manual, Dated January 2016, represent a functional translation of the planning standards and evaluation criteria of NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for the Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980. Because the exercise criteria are intended for use at all nuclear power plants sites, and because of variations among offsite plans and procedures, an extent-of-play agreement is prepared by the State and accepted by DHS/FEMA to provide evaluators with guidance on expected actual demonstration of the criteria.

The specific Radiological Emergency Preparedness criteria that were scheduled for demonstration during the exercise are listed in the State of Ohio and the Ottawa and Lucas County Extent-of Play Agreements, which follow. The criteria for the Sandusky County support functions at the Fremont Reception and Congregate Care Centers were selected by the lead Risk County, Ottawa County, in accordance with existing mutual aid agreements and are included in the Ottawa County Extent-of-Play Agreement.

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DAVIS-BESSE NUCLEAR POWER STATION
PARTIAL PARTICIPATION EXERCISE

2017 EXTENT-OF-PLAY AGREEMENT

State of Ohio

May 2, 2017

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State of Ohio Extent-of-Play Agreement

Overview

Introduction

This document constitutes the State of Ohio's Extent-of-Play Agreement for the 2017 Davis-Besse Nuclear Power Station (DBNPS) Radiological Emergency Preparedness Plume Exposure Pathway Exercise to be conducted on May 2, 2017. The exercise will be a Partial-Participation demonstration for the State of Ohio. This Extent-of-Play Agreement was developed by the Exercise Planning Team in accordance with the January 2016 edition of the FEMA REP Program Manual.

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Topic	See Page
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<u>Evaluation Area 1 – Emergency Operations Management</u>	4
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<u>Evaluation Area 6 – Support Operation/Facilities</u>	13
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General Information

Exercise Scope	<p>The State of Ohio will partially participate in this exercise, sufficient to support demonstrations by Ottawa and Lucas Counties. In-sequence activities will be conducted on Tuesday May 2, 2017, at the Emergency Operations Facility (EOF), State Initial Warning Point (Ohio State Patrol Dispatch Center), State Emergency Operations Center (SEOC), State Assessment Annex, State of Ohio Joint Information Center (JIC), and DBNPS JIC.</p> <p>Out-of-sequence activities will be conducted on Monday May 1, 2017, at the Ohio Department of Natural Resources (ODNR).</p> <p>State field team and laboratory operations will not be demonstrated, and field monitoring data will be simulated through Controller inject.</p> <p>The SEOC Operations Room will be simulated, with the exception of ESF-10, which will be staffed by the Ohio Department of Health (ODH) following Exercise Termination to demonstrate Criterion 2.a.1 and supporting criteria. The ODH will not staff ESF-10 during the exercise.</p> <p>All demonstration activities will be conducted in accordance with the FEMA RPM except as noted in this agreement.</p>
Master Scenario Events List [MSEL]	<p>The State of Ohio will develop and implement a Master Scenario Events List (MSEL) sufficient to drive actual and simulated state play. Sufficient Controllers will be on hand to provide injects to drive the scenario. The State of Ohio will provide Controller injects and the MSEL to FEMA for review at least 30 days prior to the exercise.</p>
Off-Site Timeline	<p>The State of Ohio will develop a timeline of expected off-site state response actions and provide the timeline to FEMA for review at least 30 days prior to the exercise.</p>
Redemonstration Criteria	<p>Criteria that can be re-demonstrated immediately for credit, at the decision of the evaluator, include the following: 3.a.1, 3.b.1, 3.c.1., 3.c.2, 3.d.1, 5.a.3, 6.a.1, 6.b.1, 6.c.1 and 6.d.1.</p> <p>Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairman of the Radiological Preparedness Coordinating Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.</p>

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Initial Warning Point Criteria, continued	Controllers may suspend play to address technical issues, confer with evaluators and players to address redemonstration questions, schedule redemonstration activities, and at the request of the ORO, perform player retraining in support of redemonstration.
Participating Organizations	State Off-Site Response Organizations (OROs) participating in this exercise include: Ohio Emergency Management Agency (Ohio EMA) Ohio Department of Health (ODH) Ohio Environmental Protection Agency (OEPA) Ohio State Highway Patrol (OSHP) Ohio Department of Natural Resources (ODNR)
Controllers	Each state demonstration location will be assigned a Controller whose function will be to ensure that exercise activities are conducted safely and remain on track relative to the scenario and exercise timeline. Controllers will provide injects to drive exercise play in concert with the MSEL and this extent-of-play agreement.
State Field Participation	State personnel pre-positioned to staff field positions the local area will be at the following locations: DBNPS Emergency Operations Facility DBNPS Joint Information Center State Liaison/Radiological Analyst at Ottawa County ODNR Watercraft Personnel (out-of-sequence)

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Evaluation Area 1 – Emergency Operations Management

Criterion 1.a.1	OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner.
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Extent of Play 1.a.1	The State Emergency Operations Center (SEOC) and the Ohio State Highway Patrol (OSHP) Dispatch Center will receive initial notification over the DBNPS 4-Way Conference Line. Once the SEOC Assessment Annex is activated all phone communications will be received there. The state will mobilize all the agencies that have responsibilities in the SEOC. The SEOC will be simulated. The state representatives assigned to the DBNPS EOF, DBNPS JIC, and the Ottawa County EOC will be prepositioned in the area and arrive 10-20 minutes after the exercise begins to simulate travel time. The Assessment Annex at the SEOC will be pre-staged and ready for operations.
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Criterion 1.b.1	Facilities are sufficient to support the emergency response.
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Extent of Play 1.b.1	Not Selected – State facilities were successfully demonstrated during the May 2015 Davis-Besse Nuclear Power Station exercise.
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Criterion 1.c.1	Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.
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Extent of Play 1.c.1	Direction and control of state activities will be demonstrated at the SEOC. The Executive Director of Ohio EMA will coordinate decisions on behalf of the Governor's office from the SEOC Executive Room. The Ohio Department of Health (ODH) is responsible for the determining state Protective Action Recommendations (PARs) in the SEOC Assessment Annex and will provide periodic briefings to the SEOC Executive Group.
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Criterion 1.d.1	At least two communication systems are available, at least one operates properly, and communication links are established with appropriate locations. Communications capabilities are managed in support of emergency operations.
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Extent of Play 1.d.1	The primary means of communications between the SEOC, the Ottawa County EOC, DBNPS JIC, and EOF is by commercial and/or dedicated telephone. Backup communications will be demonstrated at 7:45 am on May 2, 2017 in the Watch Office via a MARCS radio check.
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Criterion 1.e.1	Equipment, maps, displays, monitoring instruments, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations.
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Extent of Play 1.e.1	<p>The state will demonstrate the use of equipment, maps and displays and other supplies to support emergency operations. The maps traditionally used in the SEOC will be available and used for exercise evaluation purposes.</p> <p>Dosimetry and potassium iodide (KI) will be demonstrated in support emergency operations by the ODNR.</p>
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Evaluation Area 2 – Protective Action Decision Making

Criterion 2.a.1	OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.
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Extent of Play 2.a.1	<p>The SEOC Dose Assessment Group will consider Protective Action Guidelines (PAGs) and Administrative Limits to develop recommendations, including protective action guides and the administration of Potassium Iodide (KI), based on their technical evaluation of the available data. Recommendations will be provided to the SEOC Executive Group and subsequently to the County EOCs. The state and counties will disseminate recommendations to their emergency workers. Field monitoring data, appropriate to the scenario, will be provided to the SEOC Dose Assessment Group by Controller Inject via the Field Monitoring Team Coordinator.</p>
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Initial Warning Point, continued	If the scenario utilized for the exercise does not drive the decision making process this criterion may be demonstrated by Controller facilitated discussion. The state and counties will participate in this discussion together via conference line to allow for fuller exploration of the topic.
Criterion 2.b.1	Appropriate Protective Action Recommendations (PARs) are based on available information on plant conditions, field monitoring data, and Licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions.
Extent of Play 2.b.1	<p>The SEOC Dose Assessment Group will evaluate the Licensee information and complete independent dose projections, as appropriate, based on that information and field monitoring data. Assessment Room staff will evaluate the data and forward PARs to the SEOC Executive Room. Approved PARs will then be forwarded to the County EOCs via a conference line.</p> <p>If the scenario utilized for the exercise does not drive the decision making process this criterion may be demonstrated by Controller facilitated discussion. The state and counties will participate in this discussion together via conference line to allow for fuller exploration of the topic.</p>
Criterion 2.b.2	A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).
Extent of Play 2.b.2	The Governor, or his designee, will demonstrate the ability to make appropriate PARs based on technical information from the SEOC Dose Assessment Group. Recommendations concerning the use of KI for the general public, institutionalized individuals, and emergency workers are the responsibility of the ODH. They are made in the SEOC Dose Assessment Room in accordance with the ODH KI policy and will accompany the PAR.

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Initial Warning Point , continued	<p>Coordination will take place in the SEOC Executive Room with Ottawa and Lucas Counties to ensure consideration of local needs. The counties are responsible for the Protective Action Decision (PAD) and its implementation.</p> <p>If the scenario utilized for the exercise does not drive the decision-making process, this criterion may be demonstrated by Controller facilitated discussion. The state and counties will participate in this discussion together via conference line to allow for fuller exploration of the topic.</p>
Criterion 2.c.1	<p>Protective action decisions are made, as appropriate, for groups of persons with disabilities and those with access/functional needs</p>
Extent of Play 2.c.1	<p>The recommendation to take KI is issued by the ODH in the SEOC Assessment Room and accompanies the State PAR. Upon being briefed to the Executive Group and approved by the Executive Director, it is then forwarded to Ottawa and Lucas Counties for consideration.</p> <p>If the scenario utilized for the exercise does not drive the decision making process this criterion may be demonstrated by Controller facilitated discussion. The state and counties will participate in this discussion together via conference line to allow for fuller exploration of the topic.</p>
Criterion 2.d.1	<p>Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.</p>
Extent of Play 2.d.1	<p>Not Selected – The state demonstrated this criterion at the 2012 Perry Nuclear Power Plant exercise.</p>
Criterion 2.e.1	<p>Timely post-plume phase relocation, reentry, and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's plan and/or procedures.</p>
Extent of Play 2.e.1	<p>Not Selected – The state demonstrated this criterion at the 2012 Perry Nuclear Power Plant exercise.</p>

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Evaluation Area 3 – Protective Action Implementation

Criterion 3.a.1 The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record-keeping of the administration of KI to emergency workers.

Extent of Play 3.a.1 Direct Reading Dosimeters (DRDs), Permanent Record Dosimeters (PRDs) and KI will be issued to State of Ohio workers who have assignments in the 10-Mile EPZ. The state personnel responding to the utility EOF, Utility JIC, and County EOF will be prepositioned in the area in order to participate in sequence with the rest of the exercise participants.

 If the scenario does not provide for the demonstration of turn back limits, turn back values will be covered by interview with the Evaluator.

Criterion 3.b.1 KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record-keeping of the administration of KI for institutionalized individuals and the general public is maintained.

Extent of Play 3.b.1 The Ohio Department of Health obtains KI via the U.S. NRC for members of the general public. This KI is then distributed to the county health departments within the 10-Mile Emergency Planning Zone. County health departments make this KI available to the general public at reception centers during a nuclear emergency. The county health departments will maintain records of this distribution. (See county extent-of-play documents for additional information.)

Criterion 3.c.1 Protective action decisions are implemented for persons with disabilities and access/functional needs other than schools within areas subject to protective actions.

Extent of Play 3.c.1 N/A – This is a county function.

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Criterion 3.c.2	OROs/school officials implement protective actions for schools.
Extent of Play 3.c.2	N/A – This is a county function.
Criterion 3.d.1	Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.
Extent of Play 3.d.1	The State EOC Dose Assessment Group in coordination with the SEOC Executive Group will procedurally demonstrate restricting air, water and rail traffic within the Emergency Planning Zone, as applicable to the scenario. The OSHP coordinates directly with County law enforcement to provide State Traffic and Access Control Point (T/ACP) support. (See county extent-of-play agreements for additional information.)
Criterion 3.d.2	Impediments to evacuation are identified and resolved.
Extent of Play 3.d.2	N/A – This is a county function.
Criterion 3.e.1	The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions
Extent of Play 3.e.1	Not Selected – The state demonstrated this criterion at the 2012 Perry Nuclear Power Plant exercise.
Criterion 3.e.2	Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.

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Extent of Play 3.e.2	Not Selected – The state demonstrated this criterion at the 2012 Perry Nuclear Power Plant exercise.
Criterion 3.f.1	Decisions regarding controlled re-entry of emergency workers and relocation and return of the public during the post-plume phase are coordinated with appropriate organizations and implemented.
Extent of Play 3.f.1	Not Selected – The state demonstrated this criterion at the 2012 Perry Nuclear Power Plant exercise.

Evaluation Area 4 – Field Measurement and Analysis

Criterion 4.a.1	[RESERVED]
Criterion 4.a.2	Field teams (2 or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure.
Extent of Play 4.a.2	Not Selected – This was demonstrated at the 2016 Beaver Valley Power Station exercise.
Criterion 4.a.3	Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.
Extent of Play 4.a.3	Not Selected – This was demonstrated during the 2016 Beaver Valley Power Station exercise. The State FMT Coordinator will report simulated readings to the Dose Assessment Group in Columbus.

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Criterion 4.b.1	Field teams (2 or more) demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making.
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Extent of Play 4.b.1	Not Selected – The state demonstrated this criterion at the 2012 Perry Nuclear Power Plant exercise.
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Criterion 4.c.1	The laboratory is capable of performing required radiological analyses to support protective action decisions.
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Extent of Play 4.c.1	Not Selected – The state demonstrated this criterion at the 2012 Perry Nuclear Power Plant exercise.

Evaluation Area 5 – Emergency Notification and Public Information

Criterion 5.a.1	<p>Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized off-site emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance.</p> <p>Identification of the state or local government organization and the official with the authority for providing the alert signal and instructional message</p> <p>Identification of the commercial nuclear power plant and a statement that an emergency situation exists at the plant</p> <p>Reference to REP-specific emergency information (e.g., brochures and information in telephone books) for use by the general public during an emergency</p> <p>A closing statement asking the affected and potentially affected population to stay tuned for additional information.</p>
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Extent of Play 5.a.1	<p>Once a protective action decision is reached that requires the activation of the alert and notification system, the counties will simulate the initiation of the sirens. EAS messages will be prepared by county EMAs who will simulate providing them to the EAS Station(s) (See County Extent of Play Agreements for further details.)</p> <p>The State also notifies the public on Lake Erie (within the 10-Mile EPZ) through the U.S. Coast Guard, as supported by Ohio Department of Natural Resources (ODNR).</p> <p>An out-of-sequence interview will be conducted with ODNR at 9:00 AM on Monday May 1, 2017, at the US Coast Guard Station Marblehead.</p>
Criterion 5.a.2	[RESERVED]
Criterion 5.a.3	Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system.
Extent of Play 5.a.3	N/A – This is a county function.
Criterion 5.a.4	Activities associated with FEMA-approved exception areas (where applicable) are completed within 45 minutes of the initial decision by authorized offsite emergency officials to notify the public of an emergency situation.
Extent of Play 5.a.4	N/A – The State of Ohio has no FEMA-approved Exception Areas at this time.
Criterion 5.b.1	OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner.

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Extent of Play 5.b.1	The state PIO and a representative from ODH will be present at the DBNPS JIC to address protective actions being implemented and the activities taking place at the state and county levels. Public information representatives from Ohio EMA will be present in the SEOC at the state JIC to communicate with the DBNPS JIC. The Public Inquiry Line will not be demonstrated.
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Evaluation Area 6 – Support Operation/Facilities

Criterion 6.a.1	The reception center has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers.
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Extent of Play 6.a.1	N/A – This is a county function.
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Criterion 6.b.1	The facility/ORO has adequate procedures and resources to accomplish monitoring and decontamination of emergency workers and their equipment and vehicles.
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Extent of Play 6.b.1	N/A – This is a county function.
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Criterion 6.c.1	Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.
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Extent of Play 6.c.1	N/A – This is a county function.
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Criterion 6.d.1	The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals.
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Extent of Play 6.d.1	N/A – This is a county function.
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Evaluation Locations

**Initial
Warning
Point**

Address	2855 West Dublin-Granville Road Columbus, Ohio 43235
Contact	Chris Salz
Phone	614-799-3675
Cell Phone	614-398-8811
Date and Time	May 2, 2017 – Start of Exercise

**State
Emergency
Operations
Center**

Address	2855 West Dublin-Granville Road Columbus, Ohio 43235
Contact	Chris Salz
Phone	614-799-3675
Cell Phone	614-398-8811
Date and Time	May 2, 2017 – Start of Exercise

**Assessment
Room**

Address	2855 West Dublin-Granville Road Columbus, Ohio 43235
Contact	Chris Salz
Phone	614-799-3675
Cell Phone	614-398-8811
Date and Time	May 2, 2017 – Start of Exercise

**ODNR –
Division of
Watercraft**

Address	USCG Station Marblehead 606 Prairie Street Marblehead, OH 43440
Contact	John Flegal
Phone	419-734-6903
Cell Phone	419-357-5914
Date and Time	May 1, 2017 – 9:00 AM

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**DBNPS Joint
Information
Center**

Address	Edison Plaza 300 Madison Avenue Toledo, Ohio 43604
Contact	Kelli Blackwell
Phone	419-249-5176
Cell Phone	614-715-6647
Date and Time	May 2, 2017

DBNPS EOF

Address	First Energy Lindsey Service Station 1240 South Main Street Lindsey, Ohio 43442
Contact	Ed Filppi
Phone	419-333-4519
Cell Phone-	440-622-4751
Date and Time	May 2, 2017

DAVIS-BESSE NUCLEAR POWER STATION

PARTIAL PARTICIPATION EXERCISE

2017 EXTENT-OF-PLAY AGREEMENT

Ottawa County

May 2, 2017

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Ottawa County Extent-of-Play Agreement

Introduction

This document constitutes the Ottawa County Extent-of-Play Agreement (EoPA) for the 2017 Davis-Besse Nuclear Power Station (DBNPS) Radiological Emergency Preparedness Plume Exposure Pathway Exercise to be conducted on May 2, 2017. The exercise will be a Partial-Participation demonstration for the State of Ohio, with full participation by Ottawa County. This Extent of Play Agreement was developed by the Exercise Planning Team in accordance with the January 2016 edition of the current FEMA REP Program Manual.

Re-Demonstration of Criteria

Criteria that can be re-demonstrated immediately for credit, at the decision of the evaluator, include the following: 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 5.a.3, 6.a.1, 6.b.1, 6.c.1 and 6.d.1.

Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, include the following: 2.a.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

Controllers may suspend play to address technical issues, confer with evaluators and players to address redemonstration questions, schedule redemonstration activities, and at the request of the ORO, perform player retraining in support of redemonstration.

Controllers

Each county demonstration location will be assigned a Controller whose function will be to ensure that exercise activities are conducted safely and remain on track relative to the scenario and exercise timeline.

Controllers will provide injects to drive exercise play in concert with the MSEL and this extent-of-play agreement. The State of Ohio and the Risk Counties will provide Controller contact information, including name and mobile phone number, as appropriate, for all demonstration locations, to FEMA at least 30 days prior to the exercise.

All demonstration activities will be conducted in accordance with the FEMA RPM except as noted in this agreement.

Evaluation Area 1 – Emergency Operations Management

Sub-Element 1.a – Mobilization

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to alert, notify and mobilize emergency personnel, and activate and staff emergency facilities.

Criterion 1.a.1: OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. (NUREG-0654/ FEMA-REP-1, A.1.a, e; A.3, 4; C.1, 4, 6; D.4; E.1, 2; H.3, 4)

Extent of Play: All agencies identified in the Ottawa County Radiological Emergency Response Plan (RERP) will be alerted as per established procedures. The primary means of notification from Davis-Besse Nuclear Power Station is a dedicated landline; therefore, a verification call will not be performed. If a back-up means of communication (commercial phone or 800 MHz radio) is necessary, a verification call will be made.

Appropriate personnel shall be mobilized in accordance with the RERP to staff emergency facilities. The Sheriff's Dispatcher and Ottawa County EMA personnel will notify the emergency response agencies/individuals. Individuals/agencies to be notified will vary according to the level of emergency. Agencies/individuals will be contacted by radio, pager or telephone and will verify the accurate receipt of the notification message by either reading it back or calling the Sheriff's Dispatch Center (or EOC, if activated) depending upon how the individual was notified.

Following verification, the designated individual will notify appropriate personnel within the agency by using normal internal notification guidelines. Personnel will be informed of the Plant's status so that each agency with response roles at specific levels in the emergency can take appropriate actions as specified in the plan. Individual agencies rely on telephone and/or radio to contact their personnel according to a predetermined priority call list.

The County EMA Director shall be responsible for EOC activation and operation. The EOC will not normally be activated for an UNUSUAL EVENT. It may be activated for an ALERT at the discretion of the EMA Director. The EOC staff will be fully mobilized at a SITE AREA EMERGENCY or GENERAL EMERGENCY.

The following field activities/facilities will be driven by Controller injects and demonstrated out of sequence:

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Backup Route Alerting

- ◆ Erie Township Fire Department
Tuesday, May 2, 2017 – 1830 hours
- ◆ Port Clinton Fire Department
Tuesday, May 2, 2017 – 1830 hours

Traffic/Access Control

- ◆ Oak Harbor Police Department
Monday, May 1, 2017 – 0900 hours
- ◆ Ohio Department of Transportation
Wednesday, May 3, 2017 – 0900 hours

Emergency Worker Monitoring/Decontamination

- ◆ Allen-Clay Joint Fire District: Genoa Bus Garage
Monday, May 1, 2017 – 1830 hours

Schools

- ◆ Port Clinton City Schools
Tuesday, May 2, 2017 – 0900 hours
- ◆ Ottawa County Transportation Agency
Tuesday, May 2, 2017 – 1300 hours

Reception Center

- ◆ Fremont Ross High School
- ◆ Tuesday, May 2, 2017 – 1730 hours

Care Center

- ◆ Fremont Middle School
Tuesday, May 2, 2017 – 1730 hours

Institutionalized/Special Populations

- ◆ Edgewood Manor Nursing Center
Wednesday, May 3, 2017 – 1300 hours

Contaminated Injured

- ◆ Carroll Township EMS
Wednesday, May 3, 2017 – 0730 hours
- ◆ Magruder Hospital

Wednesday, May 3, 2017 – 0800 hours

Sub-Element 1.b – Facilities

Intent: This Sub-element is derived from NUREG-0654/ FEMA-REP-1, which requires that OROs have facilities to support the emergency response.

Criterion 1.b.1: Facilities are sufficient to support the emergency response. (NUREG-0654/ FEMA-REP-1, H.3; G.3.a, J.10.h; J.12; K.5.b)

Extent of Play: Ottawa County EOC will be evaluated during this demonstration.

Sub-Element 1.c – Direction and Control

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to control their overall response to an emergency.

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible. (NUREG-0654/ FEMA-REP-1, A.1.d; A.2.a, b; A.3; C.4, 6).

Extent of Play: Direction and Control will be demonstrated by appropriate participating agencies and facilities in accordance with the County RERP and SOGs.

Sub-Element 1.d – Communications Equipment

Intent: This Sub-element is derived from NUREG-0654/ FEMA-REP-1, which requires that OROs establish and operate reliable primary and backup communication systems to ensure communications with key emergency personnel at locations such as contiguous governments within the EPZ, Federal emergency response organizations, the Licensee and its facilities, EOCs, Incident Command Posts, and FMTs.

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations. (NUREG-0654/ FEMA-REP-1, F.1, 2).

Extent of Play: All communications equipment will be demonstrated at all demonstration locations. Commercial telephone is used as the primary means of communications between the Utility, Local, County, State and Federal agencies. The initial notification call informing County officials of an emergency at DBNPS is made on a 4-Way

telephone system that connects Davis-Besse, State of Ohio, Ottawa County and Lucas County.

Upon activation of the Davis-Besse Emergency Operations Facility (EOF), a commercial conference line will connect the DBNPS EOF, the Ottawa County EOC, Lucas County EOC and the Ohio EOC. This, in turn, will be supported by a facsimile machine system to verify verbal communications, as well as plant status and radiological dose assessment updates. This system may remain open and operational until the incident is terminated by the appropriate authority.

In addition, a 3-way conference line will connect Ottawa and Lucas County Commissioners and the Governor's Representative and will be used to coordinate protective action decisions and activation of the siren system and EAS.

Once notification has been made and communication links are established, a telephone/radio network will be used to expedite agency communications.

Radio/backup communication will be available for demonstration by:

- ◆ Amateur Radio Emergency Service
- ◆ Fire/EMS Liaison
- ◆ Ohio Emergency Management Agency
- ◆ Ohio State Highway Patrol
- ◆ United States Coast Guard
- ◆ Ottawa County Schools' Liaison
- ◆ Ottawa County Sheriff's Dispatch

Sub-Element 1.e – Equipment and Supplies to Support Operations

Intent: This Sub-Element is derived from NUREG-0654/ FEMA-REP-1, which requires that OROs have emergency equipment and supplies adequate to support the emergency response.

Criterion 1.e.1: Equipment, maps, displays, monitoring instruments, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations. (NUREG-0654/ FEMA-REP-1, H.7, 10; I.7, 8, 9; J.10.a, b, c; J.11, 12; K.3.a; K.5.b)

Extent of Play: All equipment, displays, supplies, etc., at all demonstration locations will be demonstrated.

Sufficient quantities of direct-reading and permanent record dosimetry and dosimeter

chargers are available for issuance to emergency workers. Dosimetry and KI have been pre-distributed to ORO's (see Criteria 3.a.1 and 3.b.1). Available supplies of KI will be within the expiration date indicated on KI bottles or blister packs.

Monitoring kits and Dosimetry are exchanged annually.

The Ohio Department of Health (ODH) (through local health departments) makes KI available to the general public by pre-distribution and by distribution at reception centers. EOC Liaisons for the Ohio Department of Transportation, Ottawa County Engineer and Ottawa County Sheriff will discuss equipment and supplies to support Traffic and Access Control.

In accordance with the State's Extent of Play, Ottawa County will participate in the demonstration of Ohio EMA's Marcs radio test.

Evaluation Area 2 – Protective Action Decision Making

Sub-Element 2.a – Emergency Worker Exposure Control

Intent: This Sub-element is derived from NUREG-0654/ FEMA-REP-1, which requires that OROs have the capability to assess and control the radiation exposure received by emergency workers and have a decision chain in place, as specified in the ORO's plan/procedures, to authorize emergency worker exposure limits to be exceeded for specific missions.

Radiation exposure limits for emergency workers are the recommended accumulated dose limits or exposure rates that emergency workers may be permitted to incur during an emergency. These limits include any pre-established administrative reporting limits (that take into consideration TEDE or organ-specific limits) identified in the ORO's plan/procedures.

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654/ FEMA-REP-1, C.6; J.10.e, f; K.4)

Extent of Play: The Ottawa County Radiological Officer (RO) will coordinate with dosimetry coordinators to monitor exposure of county emergency workers. Each emergency worker will wear assigned dosimetry devices* at all times when performing personnel or equipment contamination monitoring and decontamination, when handling radioactive material, and whenever an individual is in the EPZ during a SITE AREA

EMERGENCY or GENERAL EMERGENCY.

Individuals will be instructed to read their direct-reading dosimetry every thirty minutes or more frequently after the onset of a GENERAL EMERGENCY.

If the scenario drives a revised exposure limit, the message will be disseminated to dosimetry coordinators by the RO.

Advisories from the EOC to field personnel will be simulated due to out of sequence play. These simulated actions will be logged by EOC personnel.

The Ohio Department of Health recommends the use of KI.

Dosimetry packets and KI have been pre-distributed to emergency response organizations.

* Area Dosimetry will be utilized (in lieu of individual dosimetry) at Edgewood Manor Nursing Center and the Ottawa County EOC. Via procedure

Ottawa County Radiological Officer will use established guidelines to consider authorizing emergency workers to exceed radiation exposure in excess of administrative limits for protective action guides. This activity will be demonstrated post exercise termination. This will be demonstration via Controller-injected message and interview. Its intent is to drive the State's ability to demonstrate this criterion.

Sub-Element 2.b – Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency.

Intent: This Sub-element is derived from NUREG-0654/ FEMA-REP-1, which requires that OROs have the capability to independently project integrated dose from projected or actual dose rates and compare these estimates to the PAGs. OROs must have the capability to choose, among a range of protective actions, those most appropriate in a given emergency. OROs base these choices on PAGs from their plans/procedures or EPA's Manual of Protective Action Guides and Protective Actions for Nuclear Incidents and other criteria, such as plant conditions, Licensee PARs, coordination of PADs with other political jurisdictions (e.g., other affected OROs and incident command), availability of in-place shelter, weather conditions, and situations, to include HAB incidents, the threat posed by the specific hostile action, the affiliated response, and the effect of an evacuation on the threat response effort, that create higher than normal risk from general population evacuation.

Criterion 2.b.1: Appropriate protective action recommendations (PARs) are based on available

information on plant conditions, field monitoring data, and Licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions. (NUREG-0654/ FEMA-REP-1, I.10 and Supplement 3)

Extent of Play: N/A – Ottawa County does not demonstrate this criterion; it relies on the State of Ohio and on the Davis-Besse Nuclear Power Station.

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy). (NUREG-0654/ FEMA-REP-1, A.3; C.4, 6; D.4; J.9; J.10.f, m)

Extent of Play: Ohio is a Home Rule State and the Ottawa County Commissioners are responsible for the recommendation and implementation of protective measures for the affected public and emergency workers in Ottawa County. Protective action decisions (PADs) will be made in accordance with the Ottawa County RERP and SOGs.

They will reach their decisions by weighing information, data and protective action recommendations from the State, Utility, Federal and local sources. When a protective action has been recommended by either the Davis-Besse Nuclear Power Station (DBNPS) or the State of Ohio, the Ottawa County Commissioners will consult with other members of the County Executive Group and the Lucas County Commissioners to decide upon a coordinated protective action, the time when the sirens will be activated, an Emergency Alert System (EAS) message and Special News Broadcasts (SNBs).

The decision to advise the general public to take KI will be based upon the recommendation of Ohio Department of Health (ODH).

The County will demonstrate the capability to communicate the contents of PADs with affected jurisdictions. The number of PADs will be dependent on the scenario, however, at least one (1) PAD will be demonstrated.

Sub-Element 2.c – PAD Consideration for the Protection of Persons with Disabilities and Access/Functional Needs

Intent: The Sub-element is derived from NUREG-0654/ FEMA-REP-1, which requires that OROs have the capability to determine PADs, including evacuation, sheltering, and use of KI, if applicable, for groups of persons with disabilities and access/functional needs (e.g., hospitals, nursing homes, correctional facilities, schools, licensed daycare centers, mobility-impaired individuals, and transportation-dependent individuals). The focus is on those groups of

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persons with disabilities and access/functional needs that are, or potentially will be, affected by a radiological release from an NPP.

Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of persons with disabilities and access/functional needs. (NUREG- 0654/ FEMA-REP-1, D.4; J.9; J.10.d, e)

Extent of Play: A list of people with access/functional needs (mobility impaired, hearing impaired, etc.) is maintained by the Ottawa County Health Department, in coordination with the Ottawa County EMA, for use in an emergency.

A functional needs list shall be printed by the Health Department, however, due to confidentiality concerns, for exercise purposes portions of the list will be redacted. This modified list will be provided to the fire and EMS Liaison in the EOC. The modified list will be available for review and discussion by FEMA Evaluators and Health Department Representatives during the exercise.

Appropriate protective actions (to include the possible use of KI) for access/functional needs shall be demonstrated at Edgewood Manor Nursing Center at 1300 hours, Wednesday, May 3, 2017.

Sub-Element 2.d – Radiological Assessment and Decision Making for the Ingestion Exposure Pathway

Intent: This Sub-element is derived from NUREG-0654/ FEMA-REP-1, which requires that OROs have the means to assess the radiological consequences for the ingestion exposure pathway, relate them to the appropriate PAGs, and make timely, appropriate PADs to mitigate exposure from the pathway.

During an incident at an NPP, a release of radioactive material may contaminate water supplies and agricultural products in the surrounding areas. Any such contamination would likely occur during the plume phase of the incident and, depending on the nature of the release, could impact the ingestion pathway for weeks or years.

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO planning criteria. (NUREG-0654/ FEMA-REP-1, A.3; C.1, 4; D.4; J.9, 11)

Extent of Play: N/A – Ottawa County relies on the State of Ohio.

Sub-Element 2.e – Radiological Assessment and Decision Making Concerning Post-Plume Phase Relocation, Re-entry and Return

Intent: This Sub-element is derived from NUREG-0654/ FEMA-REP-1, which requires that OROs have the capability to make decisions on post-plume phase relocation, reentry, and return of the general public. These decisions are essential for protection of the public from direct long-term exposure to deposited radioactive materials from a severe incident at an NPP.

Criterion 2.e.1: Timely post-plume phase re-location, re-entry, and return decisions are made and coordinated as appropriate, based on assessments of radiological conditions and criteria in the OROs plan and/or procedures. (NUREG-0654/ FEMA-REP-1, I.10; J.9; K.3a; M.1)

Extent of Play: Not Selected. Successfully demonstrated in 2013.

Evaluation Area 3 – Protective Action Implementation

Sub-Element 3.a – Implementation of Emergency Worker Exposure Control

Intent: This Sub-element is derived from NUREG-0654/ FEMA-REP-1, which requires that OROs have the capability to provide for the following: distribution, use, collection, and processing of direct-reading dosimetry and permanent record dosimetry; reading of direct-reading dosimetry by emergency workers at appropriate frequencies; maintaining a radiation dose record for each emergency worker; establishing a decision chain or authorization procedure for emergency workers to incur radiation exposures in excess of the PAGs, and the capability to provide KI for emergency workers, always applying the – as low as is reasonably achievable principle as appropriate.

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI and procedures, and manage radiological exposure to emergency workers in accordance with the plans/ procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record keeping of the administration of KI to emergency workers. (NUREG-0654/ FEMA-REP-1, J.10.e; K.3.a, b; K.4)

Extent of Play: The Ottawa County Radiological Officer will coordinate with Dosimetry Coordinators to monitor exposure of county emergency workers. Each emergency worker will wear assigned dosimetry devices according to their SOG.

Individuals will be instructed to read their direct-reading dosimetry every thirty minutes or more frequently after the onset of a GENERAL EMERGENCY.

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Should the scenario drive or State Assessment recommend a revised exposure limit, the message will be disseminated by the RO to field agencies.

Advisories from the EOC to field personnel will be simulated via Controller-injected message due to out of sequence play.

Dosimetry packets have been pre-distributed to emergency response organizations.

Dosimetry Coordinators will provide a dosimetry briefing to emergency workers prior to the emergency workers beginning their mission.

Should the scenario or State Assessment drive a revised exposure limit, the Radiological Officer will demonstrate disseminating the revised exposure limit information to Dosimetry Coordinators via a briefing to the EOC Operations Room for agencies having Dosimetry Coordinators.

3.a.1 will be demonstrated by the OROs/Locations in conjunction with their RERP assignments, including the agencies/personnel responsible for issuing dosimetry and/or KI at the following locations (see Attachment 1 for addresses):

- ◆ Allen-Clay Joint Fire District – Station 36*
- ◆ Erie Township Fire Department
- ◆ Port Clinton City Schools
- ◆ Ottawa County Transportation Agency
- ◆ Magruder Hospital
- ◆ Carroll Township EMS
- ◆ Port Clinton Fire Department
- ◆ Ottawa County Radiological Officer
- ◆ Ohio Department of Transportation
- ◆ Oak Harbor Police Department
- ◆ Fremont Fire Department (no KI)

* The ORO maintains an inventory of KI, however, KI will not be issued for demonstration because this assignment is outside the EPZ.

Sub-Element 3.b – Implementation of KI Decision for Institutionalized Individuals and the General Public

Intent: This Sub-element is derived from NUREG-0654/ FEMA-REP-1, which requires that OROs have the capability to provide KI for institutionalized individuals, and, if in the

plans/procedures, to the general public for whom immediate evacuation may not be feasible, very difficult, or significantly delayed. While it is necessary for OROs to have the capability to provide KI to institutionalized individuals, providing KI to the general public is an ORO option and must be reflected as such in ORO plans/procedures.

Provisions must include the availability of adequate quantities, storage, and means of distributing KI.

Criterion 3.b.1: KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record keeping of the administration of KI for institutionalized individuals and the general public is maintained. (NUREG-0654/ FEMA-REP-1, J.10.e, f)

Extent of Play: Issuance of KI to institutionalized individuals is based upon the recommendation of the Ohio Department of Health and implemented at the County and local level. The Special Needs Communicator will notify institutional facilities, as needed, and recommend that the appropriate designee for each applicable facility administer KI to institutionalized persons. Actual administration is under the direction of the attending physician. KI WILL NOT BE INGESTED.

The Ohio Department of Health (ODH) (through local health departments) makes KI available to the general public by pre- distribution and by distribution at reception centers. The decision to advise the general public to take KI will be based upon the recommendation of ODH.

Agencies/Individuals will demonstrate Criterion 3.b.1 in conjunction with their RERP assignments. Those available for evaluator interviews will include:

- ◆ Sandusky County Health Department
- ◆ Edgewood Manor Nursing Center

Sub-Element 3.c – Implementation of Protective Actions for Persons with Disabilities and Access/Functional Needs

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement PADs, including evacuation and/or sheltering, for all persons with disabilities and access/functional needs. The focus is on those persons with disabilities and access/functional needs that are (or potentially will be) affected by a radiological release from a NPP.

Criterion 3.c.1: Protective action decisions are implemented for persons with disabilities and access/functional needs other than schools, within areas subject to protective actions. (NUREG-0654/FEMA-REP-1, J.10.c, d, e, g)

Extent of Play: A list of people with access/functional needs (mobility impaired, hearing impaired, etc.) is maintained by the Ottawa County Health Department, in coordination with the Ottawa County EMA, for use in an emergency.

A functional needs list shall be printed by the Health Department. However, due to confidentiality concerns, simulated lists will be provided to appropriate fire departments. Actual lists will be made available to the Evaluator for inspection during the exercise to validate that the records are current, accurate and complete, but due to confidentiality concerns, will not be given to FEMA electronically or in hardcopy format to document the exercise.

Appropriate protective actions (to include the possible use of KI) for institutionalized/special needs shall be demonstrated at the:

- ◆ Edgewood Manor Nursing Center at 1300 hours,
- ◆ Wednesday, May 3, 2017.

Criterion 3.c.2: OROs/School officials implement protective actions for schools. (NUREG-0654/FEMA-REP-1, J.10.c, d, e, g)

Extent of Play: In accordance with the RERP and SOGs, the Ottawa County Schools' Liaison will report to the EOC to:

1. Provide notification to local school districts.
2. Advise school district superintendents on plant status and recommended response actions.
3. Simulate the coordinating of protective actions for schools.
4. Simulate the coordinating with local school districts to provide buses and volunteer drivers for the evacuation of the mobility impaired, transportation dependent populations and health care facilities.

The Schools' Liaison communicates with the Superintendents' offices. They, in turn, notify district personnel and coordinate district resources. Communications between the Schools' Liaison and the Superintendents' offices will be documented.

- ◆ Port Clinton City Schools participants available for interview at the Port Clinton

Board of Education Office beginning at 0900 hours, Tuesday, May 2, 2017, including: the Superintendent, Building Principal, Transportation Supervisor/Dosimetry Coordinator, District Nurse and 1 bus driver.

- ◆ Ottawa County Transportation Agency participants available for interview at OCTA beginning at 1300 hours, Tuesday, May 2, 2017, including: the Transit Director, Dosimetry Coordinator and 1 bus driver.

Sub-Element 3.d – Implementation of Traffic and Access Control

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement protective action plans/procedures, including relocation and restriction of access to evacuated/sheltered areas. This Sub-element focuses on selecting, establishing, and staffing of traffic and access control points, and removal of impediments to the flow of evacuated traffic.

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel. (NUREG-0654/FEMA-REP-1, A.3; C.1, 4; J.10.g, j)

Extent of Play: In accordance with the RERP and SOGs, major traffic intersections are controlled by the Ottawa County Sheriff's Office with support from the Ohio State Highway Patrol, local police departments and the Ohio National Guard.

The County Engineer – Highway Garage and ODOT also assist in traffic control efforts by delivering traffic control equipment and assigning personnel to predetermined control points.

If assistance is required to perform traffic control, clearing roads or removing stalled vehicles, it is requested from the State through Ohio EMA.

Two Traffic/Access Control Points shall be simulated and discussed:

- ◆ 2-2 CR 23 (Benton Carroll Road) and T-91 (Zenser Road) Ohio Department of Transportation
- ◆ 5-2 SR 19 and SR 163 Oak Harbor Police Department

Those pre-designated access control points necessary to control access to an affected area will be activated (SIMULATED). Personnel from the Sheriff's Office, Ohio State Highway Patrol, local police departments, Ohio National Guard and ODNR supported by access control equipment from the County Engineer – Highway Garage and Ohio

Department of Transportation ensure that unauthorized vehicles do not enter the evacuated areas.

Traffic and Access Control Points (TACPs) shall be demonstrated procedurally at the Ottawa County EOC by:

- ◆ Ottawa County Sheriff Liaison
- ◆ Ottawa County Engineer Liaison
- ◆ Ohio Department of Transportation Liaison
- ◆ Ohio State Highway Patrol

Liaison TACPs will also be demonstrated as follows:

- ◆ Oak Harbor Police – Personnel will be available for interview beginning at 0900 hours, Monday, May 1, 2017, by following:
 - Chief
 - Dosimetry Coordinator
 - 1 Officer
- ◆ Ohio Department of Transportation personnel will be available for interview beginning at 0900 hours, Wednesday, May 3, 2017, by the following:
 - Garage Superintendent
 - Dosimetry Coordinator
 - 1 Driver

Criterion 3.d.2: Impediments to evacuation are identified and resolved. (NUREG- 0654/FEMA-REP-1, J.10.k)

Extent of Play: Controller injects will identify impediment(s) that will impact evacuation routes necessitating re-routing traffic and drive further discussion. Actual resources will not be utilized.

Appropriate staff in the EOC that may include Executive, Ottawa County Sheriff's Office, Ottawa County Engineer's Office, Ohio State Highway Patrol and Ohio Department of Transportation Liaison personnel will demonstrate the capability to:

- ◆ Identify impediments to evacuation
- ◆ Implement appropriate actions to remove or otherwise deal with impediments.
- ◆ Appropriately reroute evacuation traffic.
- ◆ Coordinate with other OROs, as appropriate.
- ◆ Notify the public of prolonged evacuation route changes resulting from the

impediment.

Sub-Element 3.e – Implementation of Ingestion Pathway Decisions

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement protective actions, based on criteria recommended by current FDA guidance, for the ingestion exposure pathway EPZ (i.e., the area within an approximate 50-mile radius of the NPP). This Sub-element focuses on those actions required for implementation of protective actions.

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions. (NUREG-0654/FEMA-REP-1, A.3; C.1, 4; J.11)

Extent of Play: N/A – Ottawa County relies on the State of Ohio.

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk, and agricultural production. (NUREG-0654/FEMA-REP-1, G.1; J.9, 11)

Extent of Play: N/A – Ottawa County relies on the State of Ohio.

Sub-Element 3.f – Implementation of Post Plume-Phase Relocation, Re-entry, and Return Decisions

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement plans, procedures, and decisions for post-plume phase relocation, reentry and return. Implementation of these decisions is essential for protecting the public from direct long-term exposure to deposited radioactive materials from a severe incident at a commercial NPP.

Criterion 3.f.1: Decisions regarding controlled re-entry of emergency workers and relocation and return of the public during the post plume-phase are coordinated with appropriate organizations and implemented. (NUREG-0654/FEMA-REP-1, E.7; J.10.j; J.12; K5.b; M.1, 3)

Extent of Play: Not selected. Successfully demonstrated in 2013.

Evaluation Area 4 – Field Measurement and Analysis

Sub-Element 4.a – Plume Phase Field Measurement and Analyses

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to deploy FMTs with the equipment, methods, and expertise necessary to determine the location of airborne radiation and particulate deposition on the ground from an airborne plume. In addition, NUREG-0654/FEMA-REP-1 indicates that OROs must have the capability to use FMTs within the plume exposure pathway EPZ to detect airborne radioiodine in the presence of noble gases and radioactive particulate material in the airborne plume. In an incident at a NPP, the possible release of radioactive material may pose a risk to the nearby population and environment. Although incident assessment methods are available to project the extent and magnitude of a release, these methods are subject to large uncertainties. During an incident, it is important to collect field radiological data to help characterize any radiological release. Adequate equipment and procedures are essential to such field measurement efforts.

Criterion 4.a.1: (Reserved)

Criterion 4.a.2: Field teams (2 or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure. (NUREG-0654/FEMA-REP-1, C.1; H.12; I.7, 8, 11; J.10.a)

Extent of Play: N/A – Ottawa County relies on the State of Ohio and on the Davis-Besse Nuclear Power Station.

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media. (NUREG-0654/FEMA-REP-1, C.1; H.12; I.8, 9; J.10.a)

Extent of Play: N/A – Ottawa County relies on the State of Ohio and on the Davis-Besse Nuclear Power Station.

Sub-Element 4.b – Post Plume Phase Field Measurements and Sampling

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to assess the actual or potential magnitude and locations of radiological hazards to determine the ingestion exposure pathway EPZ and to support

relocation, reentry, and return decisions. This Sub-element focuses on collecting environmental samples for laboratory analyses that are essential for decisions on protecting the public from contaminated food and water and direct radiation from deposited materials. PART III; REP PROGRAM DEMONSTRATION GUIDANCE, REP Program Manual Page III-51 October 2011.

Criterion 4.b.1: The field teams (2 or more) demonstrate the capability to make appropriate measurements and to collect appropriate samples (for example, food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making. (NUREG-0654/FEMA-REP-1, C.1; I.8; J.11)

Extent of Play: N/A – Ottawa County relies on the State of Ohio

Sub-Element 4.c – Laboratory Operations

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to perform laboratory analyses of radioactivity in air, liquid, and environmental samples to support protective action decision making.

Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions. (NUREG- 0654/FEMA-REP-1, C.1, 3; J.11)

Extent of Play: N/A – Ottawa County relies on the State of Ohio

Evaluation Area 5 – Emergency Notification and Public Information

Sub-Element 5.a – Activation of the Prompt Alert and Notification System

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to provide prompt instructions to the public within the plume exposure pathway EPZ. Specific provisions addressed in this Sub-element are derived from the *Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants*, FEMA-REP-10 (November 1985).

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized off-site emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current FEMA REP guidance. (NUREG-0654/FEMA-REP-1, E.5, 6, 7)

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1. Identification of the state or local government organization and the official with the authority for providing the alert signal and instructional message
2. Identification of the commercial nuclear power plant and a statement that an emergency situation exists at the plant.
3. Reference to REP-specific emergency information (e.g., brochures and information in telephone books) for use by the general public during an emergency
4. A closing statement asking the affected and potentially affected population to stay tuned for additional information.

Extent of Play: Siren activation procedures will be demonstrated up to the point of electronic activation, which will be simulated. Siren activation will be available in the Dispatch Center at the evaluator's discretion.

The State of Ohio, per the State of Ohio Extent of Play Agreement, will demonstrate waterway notification.

NOAA will be contacted, but NOAA will not broadcast an emergency message via the National Weather Service (Cleveland).

EAS messages will be prepared and provided to the Ohio EAS LP 1 Station (WRVF 101.5 FM Radio) in accordance with the RERP and SOG. EAS Messages are transmitted electronically from the Ottawa County EOC to the LP-1 Station via telephone lines utilizing a SAGE ENDEC encoder.

The Ottawa County ENDEC encoder provides a printout verifying that the message was sent.

The LP-1 ENDEC encoder provides a printout verifying receipt of the message. A copy of the verified message will be provided to the Evaluator. EAS messages will be recorded by the radio station but not actually broadcast.

Criterion 5.a.2: (RESERVED)

Criterion 5.a.3: Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary Alert and Notification System. (NUREG-0654/FEMA-REP-1, E.6; Appendix 3.B.2.c)

Extent of Play: Sirens 093 and 702 will be identified by Controller Inject as being out of service, leading to a decision to initiate backup route alerting procedures.

Route Verification, which is performed at a Site Area Emergency, will be demonstrated

out-of-sequence by interview at the demonstrating fire stations.

Backup Route Alerting will be demonstrated out-of-sequence. Public Address (PA) systems will be demonstrated with an appropriate test message at an agreed upon location. The PA system will not be activated in- route, but the alert message will be read by a player as if the exercise were real-world. Backup Route Alerting will be demonstrated by the following OROs:

- ◆ Erie Township Fire Department
- ◆ Tuesday, May 2, 2017 – 1830 hours
- ◆ Port Clinton Fire Department
- ◆ Tuesday, May 2, 2017 – 1830 hours

Criterion 5.a.4: Activities associated with FEMA-approved exception areas (where applicable) are completed within forty-five minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. (NUREG-0654/FEMA-REP-1, E.6; Appendix 3.B.2.c)

Extent of Play: N/A. Exception areas do not exist in Ottawa County.

Sub-Element 5.b – Subsequent Emergency Information and Instructions for the Public and the Media

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to disseminate appropriate emergency information and instructions, including any recommended protective actions, to the public. In addition, NUREG-0654/FEMA-REP-1, requires OROs to ensure that the capability exists for providing information to the media. This includes the availability of a physical location for use by the media during an emergency. NUREG-0654/FEMA-REP-1 also provides that a system must be available for dealing with rumors. This system will hereafter be known as the – public inquiry hotline.

Criterion 5.b.1: OROs provide accurate emergency information and instructions to the public and the news media in a timely manner. (NUREG-0654/FEMA-REP-1, E.5, 7; G.3.a, G.4.a, c)

Extent of Play: EAS messages will be prepared and provided to the LP 1. EAS messages will be recorded but not broadcast.

- ◆ WRVF 101.5 FM Radio

In accordance with the RERP and SOGs, the Utility JIC will be activated and staffed by

Utility/Federal/State/County PIOs upon declaration of an ALERT. News Releases will be coordinated with all participating PIOs prior to release to the news media with briefings held jointly, as appropriate.

The Ottawa County PIO will maintain contact with the Public Information Assistant in the Ottawa County Emergency Operations Center (EOC) who will serve as the primary contact point for all public information-related matters within the Ottawa County EOC.

Information from participating local or County agencies in the EOC will be coordinated with the Public Information Assistant. The Public Information Assistant will provide information to the PIO for development of a joint news statement with Lucas County and the State, as appropriate.

The Public Information Assistant will ensure that the Commissioners are aware of information being disseminated to the news media.

The PIO will coordinate with the Public Information Assistant to receive Executive Group approval on news statements affecting Ottawa County prior to dissemination to the news media.

A Public Inquiry telephone will be used to identify trends.

A media briefing will not be demonstrated in the Ottawa County EOC. Media briefings are conducted/demonstrated at the JIC.

Evaluation Area 6 – Support Operation/Facilities

Sub-Element 6.a – Monitoring, Decontamination and Registration of Evacuees.

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement radiological monitoring and decontamination of evacuees, while minimizing contamination of the facility. OROs must also have the capability to identify and register evacuees at reception centers.

Criterion 6.a.1: The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees.
(NUREG- 0654/FEMA-REP-1, A.3; C.4; J.10.h; J.12)

Extent of Play: In accordance with the RERP and SOGs, if evacuation is the recommended protective action, residents are instructed to leave the affected area along designated routes and go to specific reception centers located in adjacent/host

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counties. *No reception centers are located in Ottawa County.* At reception centers, the evacuees are checked for contamination, provided KI (if appropriate), registered and assigned to a care center (if necessary).

The Fremont Ross High School Reception Center, Fremont, Ohio, will be demonstrated out of sequence on Tuesday, May 2, 2017, at 1730 hours.

Monitoring and decontamination will be demonstrated procedurally by Fremont Fire Department. The Dosimetry Coordinator will be pre-positioned at Fremont High School and will distribute dosimetry from that location and provide a radiological briefing to those persons receiving dosimetry.

The ORO will provide six individuals to be simulated evacuees. They will be monitored for contamination and will be processed through the facility. One of the six individuals will be contaminated by Controller Inject.

Initial monitoring utilizing a Bicron Portal Monitor will identify one evacuee to be referred to secondary monitoring and decontaminated. One locker room will be fully set up and demonstrated. A walk-through interview of the remaining locker room will be conducted upon request.

Controller injected radiation levels will be sufficient to drive the need for decontamination and discussion of decontamination procedures. Decontamination will be simulated. The proper sequence for washing and for decontamination efforts, and the decisions to refer individuals who cannot be decontaminated to medical facilities will be demonstrated via interview. The decontamination staff will demonstrate appropriate use of PPE, monitoring equipment, personal dosimetry, and have on hand for discussion with the Evaluator all necessary decontamination supplies and equipment.

Contamination control and record-keeping procedures will be demonstrated at the initial and secondary monitoring points. The use of brown Kraft paper is optional for this exercise.

Registration of six evacuees will be demonstrated under the direction of the Reception Center Manager (Sandusky County Health Department). Transportation of evacuees from the reception center to care centers will not be demonstrated. Participating organizations:

- ◆ Fremont Fire Department
- ◆ Sandusky Township Fire Department

- ◆ Lindsey Fire Department
- ◆ Sandusky County Health Department

Should the Ohio Department of Health recommend potassium iodide for the general public, KI will be distributed to evacuees by Sandusky County Health Department after initial monitoring.

Evacuee vehicle monitoring at the Reception Center will be physically demonstrated on one vehicle. Evacuee vehicle decontamination will be demonstrated by interview, i.e., actual wash-down will not be performed. Setup will be in accordance with plans and procedures, and all appropriate resources will be on-hand to support the demonstration. Controller Injects will drive contamination level monitoring and decontamination decision-making by the players in accordance with plans and procedures.

Sub-Element 6.b – Monitoring and Decontamination of Emergency Workers and Their Equipment and Vehicles

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement radiological monitoring and decontamination of emergency workers and their equipment, inclusive of vehicles.

Criterion 6.b.1: The facility/ORO has adequate procedures and resources to accomplish monitoring and decontamination of emergency workers and their equipment and vehicles. (NUREG-0654/FEMA-REP-1, K.5.a, b)

Extent of Play: Emergency Worker Monitoring and Decontamination will be demonstrated out-of-sequence on Monday, May 1, 2017, beginning at 1830 hours, by the Allen-Clay Joint Fire District at the Genoa Bus Garage.

Initial monitoring, utilizing a Bicron Portal Monitor, of two emergency workers, will identify one contaminated Emergency Worker. Controller injected radiation levels will be sufficient to drive the need for decontamination and discussion of decontamination procedures. Decontamination will be simulated. The decontamination staff will demonstrate appropriate use of PPE, monitoring equipment, personal dosimetry, and have on hand for discussion with the Evaluator all necessary decontamination supplies and equipment. The proper sequence for washing and for decontamination efforts, and the decisions to refer individuals who cannot be decontaminated to medical facilities will be demonstrated via interview.

Emergency Worker vehicle monitoring will be physically demonstrated on one

vehicle. Emergency Worker vehicle decontamination will be demonstrated by interview, i.e., actual wash- down will not be performed. Setup will be in accordance with plans and procedures, and all appropriate resources will be on-hand to support the demonstration. Controller Injects will drive contamination level monitoring and decontamination decision-making by the players in accordance with plans and procedures. Emergency Workers will be prepared to discuss with the Evaluator supplies and procedures that would be used to support vehicle monitoring and decontamination.

Sub-Element 6.c – Temporary Care of Evacuees

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires OROs to have the capability to establish relocation centers in host/support jurisdictions. The American Red Cross normally provides congregate care in support of OROs under existing letters of agreement.

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities. (NUREG- 0654/FEMA-REP-1, J.10.h; J.12)

Extent of Play: Fremont Middle School congregate care facility will be demonstrated via interview out of sequence on Tuesday, May 2, 2017, at 1730 hours.

Care Center capabilities to provide food, bedding and other necessities will be demonstrated via documentation from the American Red Cross.

American Red Cross staff positions participating will include one care center manager, one registration worker, one nurse, and one family worker. Setup will include a Registration Desk and appropriate forms and office supplies. The ARC will provide and be prepared to discuss with the Evaluator an inventory of the supplies that would be used to support the care center, but set-up may be simulated.

Participating organizations:

- ◆ American Red Cross
- ◆ ARES/RACES

Sub-Element 6.d – Transportation and Treatment of Contaminated Injured Individuals

Intent: This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to transport contaminated injured individuals to medical facilities with the capability to provide medical services.

Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals. (NUREG-0654/FEMA-REP-1, F.2; H.10; K.5.a, b; L.1, 4)

Extent of Play: Carroll Township EMS will demonstrate assessment and transport of a contaminated, injured individual at Carroll Township EMS, out of sequence, on Wednesday, May 3, 2017, beginning at 0730 hours.

The ORO will provide an individual who will simulate being an injured and contaminated member of a State Field Monitoring Team. Carroll Township EMS will assess the patient for injuries and contamination. Once stabilized, the patient will be prepared for transport, loaded into the squad and be transported to Magruder Hospital. Emergency lights and sirens will not be used.

While in transit to the hospital, the EMS crew will communicate with the hospital regarding the patient's contamination status and medical condition and the estimated time of arrival at the hospital.

Upon arrival at Magruder Hospital, care, custody and control of the patient will be transferred to the hospital Radiation Emergency Area (REA) Response Team. The hand-off from the EMS crew to the REA staff will be observed by both the Transport Evaluator and the Facility Evaluator. The Transport Evaluator will interview the EMS crew and appropriate Facility personnel regarding the crew's and vehicle's status and return to service.

The hospital will demonstrate set-up of the REA and staff preparations for receipt of a radiologically contaminated patient. The patient will be treated and decontaminated by the REA Response Team in accordance with hospital plans and procedures. The Transport Evaluator may assist the Facility Evaluator during the Facility segment of the demonstration. The REA Response Team will demonstrate the appropriate use of PPE in accordance with hospital procedures. The Facility Evaluator will interview appropriate Facility personnel regarding the REA staff's and facility's status and return to normal operating conditions.

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Appropriate sample collection procedures will be demonstrated. Contamination levels will be provided by Controller Inject. The REA staff will make appropriate decisions regarding the need for further decontamination or referral to specialized facilities.

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Attachment 1: Ottawa County Field Activity Locations – (Out of Sequence)

Erie Township Fire Department
5585 W. Harbor Road
Port Clinton, OH 43452
419-635-2820

Ohio Department of Transportation
307 S. Railroad Street
Oak Harbor, OH 43449
419-898-4134

Port Clinton Fire Department
1755 State Street
Port Clinton, OH 43452
419-734-3430

Ottawa County Transportation Agency
275 N. Toussaint South Road
Oak Harbor, OH 43449
419-898-7433

Genoa Bus Garage
2810 N. Genoa-Clay Center Road Genoa,
OH 43430
419-855-0171

Port Clinton City School District
811 S. Jefferson Street
Port Clinton, OH 43452
419-732-2102

Oak Harbor Police Department
146 Church Street
Oak Harbor, OH 43449
419-898-2055

Edgewood Manor Nursing Center
1330 S. Fulton Street
Port Clinton, OH 43452
419-734-5506

Carroll Township EMS
11080 W. Toussaint Road
Oak Harbor, OH 43449
419-898-9621

Magruder Hospital
615 Fulton Street
Port Clinton, OH 43452
419-734-3131

Fremont Ross High School
1100 North Street
Fremont, OH 43420
419-332-8221

Fremont Middle School
1250 North Street
Fremont, OH 43420
419-332-5569

Attachment 2: Termination of Exercise Play

The Lead Controller in the Ottawa County EOC will coordinate the Emergency Phase Termination with the Ohio EOC, the DBNPS EOF, and the Lucas County EOC.

Field Locations/Out of Sequence Demonstrations will be terminated by the Lead Controller at each location. The termination will be based on the completion of the objectives.

Lead Controllers at any location can suspend activities for real world events.

DAVIS-BESSE NUCLEAR POWER STATION

PARTIAL PARTICIPATION EXERCISE

2017 EXTENT-OF-PLAY AGREEMENT

Lucas County



May 2, 2017

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Lucas County Extent-of-Play Agreement

Introduction

This document constitutes the Lucas County Extent-of-Play Agreement for the 2017 Davis-Besse Nuclear Power Station Radiological Emergency Preparedness Plume Exposure Pathway Exercise to be conducted on May 2, 2017.

Re-Demonstration of Criteria

Criteria that can be re-demonstrated immediately for credit, by a decision of the evaluator, include the following: 3.a.1, 3.b.1, 3.c.1., 3.c.2., 3.d.1, 5.a.3, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1. All demonstration activities will be conducted in accordance with the FEMA RPM except as noted in this agreement.

Controllers may suspend play to address technical issues, confer with evaluators and players to address re-demonstration questions, schedule re-demonstration activities, and at the request of the ORO, perform player retraining in support of re-demonstration.

Out-Of-Sequence Activities

The following activities will be driven by Controller injects and demonstrated out of sequence:

▪ **Criterion 3.a.1 – Implementation of Emergency Worker Exposure Control**

Organization	Location	Date	Time
Oregon School District Trans Dept	Bus Garage	May 1	10:00 am
Lucas County Sheriff's Office	EOC	May 2	Post-EOC
Jerusalem Township Fire Dept	Emergency Worker Mon/Decon	May 3	6:30 pm

▪ **Criterion 3.b.1 – Implementation of KI Decision for Institutionalized Individuals and the General Public**

Organization	Location	Date	Time
Toledo/Lucas County Health Dept	Lucas County EOC	May 2	

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▪ **Criterion 3.c.1 – Implementation of PADs for Persons with Access and Functional Needs**

Organization	Location	Date	Time
Oregon School Trans Dept	Bus Garage	May 1	10:00 am

▪ **Criterion 3.d.1 – Traffic/Access Control**

Organization	Location	Date	Time
Lucas County Sheriff's Office	EOC	May 2	Post-EOC

▪ **Criterion 6.b.1 – Monitoring and Decontamination of Emergency Workers and their Equipment and Vehicles**

Organization	Location	Date	Time
Jerusalem Township Fire Dept	Jerusalem Township Fire Dept	May 3	6:30 pm

Deferred Demonstration Activities

The following activities will be demonstrated off-year in 2017, with the date and time to be determined.

▪ **Criterion 5.a.3 – Route Verification / Backup Route Alerting**

Organization	Location	Date	Time
Jerusalem Township Fire Dept	Jerusalem Township Fire Dept	September 6	7:00 pm

▪ **Criterion 6.d.1 – Transportation and Treatment of Contaminated Injured Individuals**

Organization	Location	Date	Time
Jerusalem Township Fire Dept	Jerusalem Township Fire Dept	September 7	8:00 am
Mercy St. Charles Hospital	Mercy St. Charles Hospital	September 7	8:00 am

Evaluation Area 1 – Emergency Operations Management

Sub-Element 1.a – Mobilization

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to alert, notify, and mobilize emergency personnel, and

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activate and staff emergency facilities.

Criterion 1.a.1: OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. (NUREG-0654/FEMA-REP-1, A.1.a, e; A.3, 4; C.1, 4, 6; D.4; E.1, 2; H.3, 4)

Extent of Play: All participating agencies identified in the Lucas County Radiological Emergency Response Plan (RERP) will be alerted as per established procedures.

The primary means of notification from Davis-Besse Nuclear Power Station is a dedicated landline; therefore, a verification call will not be performed. If a back-up means of communication (commercial phone) is necessary, a verification call will be made.

Appropriate personnel shall be mobilized in accordance with the RERP to staff emergency facilities.

The Sheriff's Dispatcher will notify the emergency response agencies/individuals. Agencies/individuals to be notified will vary according to the level of emergency. Following notification, the designated individual will notify appropriate personnel within the agency by using normal internal notification procedures. Personnel will be informed of the Plant's status so that each agency with response roles at specific levels in the emergency can take appropriate actions as specified in the plan.

The County EMA Director shall be responsible for EOC activation and operation.

The EOC will not normally be activated for an UNUSUAL EVENT. It may be activated for an ALERT at the discretion of the EMA Director. The EOC staff will be fully mobilized at a SITE AREA EMERGENCY or GENERAL EMERGENCY.

Sub-Element 1.b – Facilities

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have facilities to support the emergency response.

Criterion 1.b.1: Facilities are sufficient to support the emergency response. (NUREG-0654/FEMA-REP-1, H.3; G.3.a; J.10.h; J.12; K.5.b)

Extent of Play: Not Selected. This criterion was successfully demonstrated in 2015.

Sub-Element 1.c – Direction and Control

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to control their overall response to an emergency.

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to 0654/FEMA-REP-1, A.1.d; A.2.a; A.3; C.4, 6)

Extent of Play: In accordance with the Lucas County RERP and SOPs, leadership personnel will demonstrate the ability to carry out the essential management functions of the response effort. This includes:

- Engaging in protective action decision-making and implementation
- Keeping staff informed through periodic briefings and/or other means
- Coordinating with other OROs
- Ensuring completion of requirements and requests
- Prioritizing resource tasking when faced with competing demands for finite resources

Sub-Element 1.d – Communications Equipment

Intent: This sub-element is derived from NUREG0654/FEMA-REP-1, which requires that OROs establish and operate reliable primary and back-up communication systems to ensure communications with key emergency personnel at locations such as contiguous governments within the EPZ, Federal emergency response organizations, the Licensee and its facilities, EOCs, Incident Command Posts, and Field Monitoring Teams (FMTs).

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations. (NUREG-0654/FEMA-REP-1, F.1, 2)

Extent of Play: Communications equipment will be demonstrated at all demonstration locations.

Commercial telephone is used as the primary means of communications between the Utility, Local, County, State and Federal agencies.

Demonstration of the initial notification call informing County officials of an emergency at DBNPS may come through the Sheriff's Dispatch Center on the Davis-Besse commercial telephone. This system may remain open and operational until the incident

is terminated by the appropriate authority.

The Utility EOF, Ottawa County EOC, Lucas County EOC and Ohio EOC will be connected via the Davis-Besse commercial telephone.

A documentation received via fax machine will support verbal communications, as well as plant status and radiological dose assessment updates.

Demonstration will include a 3-way conference line connecting Ottawa and Lucas County Commissioners and the Governor's Representative and will be used to coordinate protective action recommendations, decisions, and activation of the siren system and EAS.

Radio/backup communication will be demonstrated via participation or interview at the EOC on May 2 as follows:

- EMA will participate in a Marcs radio communications test prior to the beginning of EOC demonstration
- Lucas County Sheriff's Communications Liaison will discuss availability of radios and Buckeye State Sheriff's Association Communications Vehicle
- Amateur Radio Emergency Service (ARES) Liaison will discuss the ability of ARES volunteers and equipment

Radio/backup communication will be demonstrated via interview at the Oregon City Schools Transportation Department on May 1, 10:00 am as follows:

- Oregon City Schools Transportation Director will discuss the availability radios and cell phones

Sub-Element 1.e – Equipment and Supplies to Support Operations

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have emergency equipment and supplies adequate to support the emergency response.

Criterion 1.e.1: Equipment, maps, displays, monitoring instruments, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations. (NUREG-0654/FEMA-REP-1, H.7, 10; I.7, 8, 9; J.10.a, b, e; J.11, 12; K.3.a; K.5.b)

Extent of Play: All equipment, displays, supplies, etc. will be demonstrated at all demonstration locations.

Sufficient quantities of direct-reading and permanent record dosimetry and dosimeter

chargers have been predistributed to county agencies for issue to emergency workers.

Dosimetry and KI have been pre-distributed to ORO's (see Criteria 3.a.1 and 3.b.1). Available supplies of KI will be within the expiration date indicated on KI bottles or blister packs.

Monitoring kits and Dosimetry are exchanged annually by the Ohio Emergency Management Agency Radiological Analyst.

The Ohio Department of Health (ODH) (through local health departments) makes KI available to the general public by pre-distribution and distribution at the Reception Center. KI distribution to the general public at the Reception Center was successfully demonstrated in 2015 and, therefore, will not be demonstrated in 2017. Demonstration via interview of the KI inventory for the general public will occur in the EOC by Health Department Representatives.

Evaluation Area 2 – Protective Action Decision Making

Sub-Element 2.a – Emergency Worker Exposure Control

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to assess and control the radiation exposure received by emergency workers and have a decision chain in place, as specified in the ORO's plans/procedures, to authorize emergency worker exposure limits to be exceeded for specific missions.

Radiation exposure limits for emergency workers are the recommended accumulated dose limits or exposure rates that emergency workers may be permitted to incur during an emergency. These limits include any pre-established administrative reporting limits (that take into consideration TEDE or organ-specific limits) identified in the ORO's plans/procedures.

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654/FEMA-REP-1, C.6; J.10.e, f; K.4)

Extent of Play: Not Selected. Lucas County relies on the State of Ohio.

Provisions to authorize radiation exposure in excess of administrative limits or PAGs:

All advisories from the EOC to field personnel will be simulated due to out of sequence play. EOC participants will note their simulated actions on their Log Forms.

The Lucas County Radiological Officer will demonstrate coordination with dosimetry coordinators to monitor exposure of county emergency workers.

Each emergency worker will wear assigned dosimetry devices at all times when performing personnel or equipment contamination monitoring and decontamination, when handling radioactive material, and whenever an individual is in the EPZ during a SITE AREA EMERGENCY or GENERAL EMERGENCY. This will also be demonstrated during out of sequence evaluations.

All emergency workers assigned to the 10-Mile EPZ will be given a radiological briefing prior to deployment, including out of sequence evaluations. Dosimetry coordinators will demonstrate via interview instructing emergency workers to read their direct-reading dosimetry every 30 minutes or more frequently after the onset of a GENERAL EMERGENCY.

Should the scenario dictate a reduction factor for the emergency worker exposure limit, the reduction factor will be limited to emergency workers in the EPZ and the Radiological Officer will demonstrate via interview disseminating the reduction information to Dosimetry Coordinators.

The Ohio Department of Health is responsible for recommending the use of KI. The RO will implement ODH recommendations through coordination with the Dosimetry Coordinators.

Dosimetry packets containing KI have been pre-distributed to emergency response organizations.

Sub-Element 2.b – Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency.

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to independently project integrated dose from projected or actual dose rates and compare these estimates to the PAGs. OROs must have the capability to choose, among a range of protective actions, those most appropriate in a given emergency. OROs base

these choices on PAGs from their plans/procedures or EPA's *Manual of Protective Action Guides and Protective Actions for Nuclear Incidents* and other criteria, such as plant conditions, Licensee PARs, coordination of PADs with other political jurisdictions (e.g., other affected OROs and incident command), availability of in-place shelter, weather conditions, and situations, to include HAB incidents, the threat posed by specific hostile action, the affiliated response, and the effect of an evacuation on the threat response effort, that create higher than normal risk from general population evacuation.

Criterion 2.b.1: Appropriate protective action recommendations (PARs) are based on available information on plant conditions, field monitoring data, and Licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions. (NUREG-0654/FEMA-REP-1, I.10 and Supplement 3).

Extent of Play: N/A. Lucas County does not demonstrate this criterion; it relies on the State of Ohio and on the Davis-Besse Nuclear Power Station.

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy). (NUREG-0654/FEMA-REP-1, A.3; C.4, 6; D.4; J.9; J.10.f, m)

Extent of Play: Ohio is a home rule state. In accordance with the Lucas County RERP and SOPs, the Lucas County Commissioners are responsible for Protective Action Decisions (PADs) affecting the public and emergency workers in Lucas County.

Lucas County Commissioners will demonstrate decision making abilities by weighing information, data, and protective action recommendations from the State, Utility, Federal, and local sources.

When a protective action has been recommended by either the Davis-Besse Nuclear Power Station (DBNPS) or the State of Ohio, the Lucas County Commissioners will demonstrate the ability to consult with the Lucas County Executive Group and the Ottawa County Commissioners to decide upon coordinated protective action decisions, the time when the sirens will be activated, and the time when an Emergency Alert System (EAS) message and Special News Broadcasts (SNBs) will be broadcast to the public.

If driven by the exercise scenario, Lucas County Commissioners will demonstrate the ability to advise the general public to take KI based upon the recommendation of ODH.

If driven by the exercise scenario, Lucas County Commissioners will demonstrate the capability to communicate the contents of PADs with affected jurisdictions.

The Lucas County portion of the 10-Mile EPZ consists of sub-areas 10 and 11. The exercise scenario may or may not drive protective action recommendations for these sub-areas. If the scenario does not result in public action recommendations for sub-areas 10 and 11, Lucas County will demonstrate this criterion through discussion.

Sub-Element 2.c – Protective Action Decisions Consideration for the Protection of Persons with Functional Needs

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to determine PADs, including evacuation, sheltering, and use of KI, if applicable, for groups of persons with functional needs (e.g., hospitals, nursing homes, correctional facilities, schools, licensed daycare centers, mobility-impaired individuals, and transportation-dependent individuals). The focus is on those groups of persons with needs that are, or potentially could be, affected by a radiological release from a NPP.

Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of persons with disabilities and access/functional needs. (NUREG-0654/FEMA-REP-1, D.4; J.9; J.10.d, e)

Extent of Play: There are no special facilities or institutionalized populations within the Lucas County Portion of the EPZ.

A confidential list of people with access/functional needs (mobility impaired, hearing impaired, etc.) is maintained by the Toledo/Lucas County Health Department. Jerusalem Township Trustees and Jerusalem Township Fire Chief each receive a copy of the list. EMA is provided an abbreviated list with only the needs annotated. This enables the EOC to mobilize resources without compromising individuals' privacy.

The EMA Operations Officer provides the abbreviated list to the EOC Fire and EMS Liaisons so that necessary resources can be staged and made available as directed by Jerusalem Township Fire. The abbreviated list will be made available to FEMA Evaluators for review and discussion.

Oregon School District Transportation Department will describe their role in the evacuation of individuals with access/functional needs.

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Organization	Location	Date	Time
Oregon School District Transportation Dept	Bus Garage	May 1	10:00 am

Sub-Element 2.d – Radiological Assessment and Decision Making for the Ingestion Exposure Pathway

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the means to assess the radiological consequences for the ingestion exposure pathway, relate them to the appropriate PAGs, and make timely, appropriate PADs to mitigate exposure from the pathway.

During an incident at an NPP, a release of radioactive material may contaminate water supplies and agricultural products in the surrounding areas. Any such contamination would likely occur during the plume phase of the incident and, depending on the nature of the release, could impact the ingestion pathway for weeks or years.

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria. (NUREG-0654/FEMA-REP-1, A.3; C.1, 4; D.4; J.9, 11).

Extent of Play: N/A. Lucas County relies on the State of Ohio.

Sub-Element 2.e – Radiological Assessment and Decision Making Concerning Post-Plume Phase Relocation, Re-entry, and Return

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to make decisions on post-plume phase relocation, reentry, and return of the general public. These decisions are essential for protection of the public from direct long-term exposure to deposited radioactive materials from a severe incident at an NPP.

Criterion 2.e.1: Timely post-plume relocation, re-entry, and return decisions are made and coordinated as appropriate, based on assessments of radiological conditions and criteria in the ORO's plan and/or procedures. (NUREG-0654/FEMA-REP-1, I.10; J.9; K.3.a; M.1)

Extent of Play: Not Selected. This criterion was successfully demonstrated in 2013.

Evaluation Area 3 – Protective Action Implementation

Sub-Element 3.a – Implementation of Emergency Worker Exposure Control

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to provide for the following: distribution, use, collection, and processing of direct-reading dosimetry and permanent record dosimetry; reading of direct-reading dosimetry by emergency workers at appropriate frequencies; maintaining a radiation dose record for each emergency worker; establishing a decision chain or authorization procedure for emergency workers to incur radiation exposures in excess of the PAGs, and the capability to provide KI for emergency workers, always applying the “as low as is reasonably achievable” principle as appropriate.

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record-keeping of the administration of KI to emergency workers. (NUREG-0654/FEMA-REP-1, J.10.e; K.3.a, b; K.4)

Extent of Play: Dosimetry Coordinators do not report to the EOC but rather directly to their field positions. Therefore, the Lucas County Radiological Officer will demonstrate coordinating with Dosimetry Coordinators to monitor exposure of county emergency workers through a briefing to the EOC Operations Room pertaining to agencies having Dosimetry Coordinators. Advisories from the EOC to field personnel will be simulated due to out of sequence play.

Each emergency worker will wear assigned dosimetry devices at all times when performing personnel or equipment contamination monitoring and decontamination, when handling radioactive material, and whenever an individual is in the EPZ during a SITE AREA EMERGENCY or GENERAL EMERGENCY.

Dosimetry Coordinators will give a radiological briefing to all appropriate personnel and demonstrate via interview instructing emergency workers to read their direct-reading dosimetry every 30 minutes or more frequently after the onset of a GENERAL EMERGENCY.

Should the scenario or State Assessment drive a revised exposure limit, the Radiological

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Officer will demonstrate disseminating the revised exposure limit information to Dosimetry Coordinators via a briefing to the EOC Operations Room for agencies having Dosimetry Coordinators.

Dosimetry packets have been pre-distributed to emergency response organizations.

Dosimetry Coordinators will demonstrate providing a dosimetry briefing to emergency workers prior to the emergency workers beginning their mission.

Dosimetry Coordinator demonstrations via interview will be with these agencies as indicated:

Organization	Location	Date	Time
Oregon School District Transportation Dept.	Bus Garage	May 1	10:00 am
Lucas County Sheriff's Office	EOC	May 2	Post-EOC
Jerusalem Township Fire Dept.	Jerusalem Township Fire Dept.	May 3	6:30 pm

Sub-Element 3.b – Implementation of KI Decision for Institutionalized Individuals and the General Public

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to provide KI for institutionalized individuals, and, if in the plans/procedures, to the general public for whom immediate evacuation may not be feasible, very difficult, or significantly delayed. While it is necessary for OROs to have the capability to provide KI to institutionalized individuals, providing KI to the general public is an ORO options and must be reflected as such in ORO plans/procedures. Provisions must include the availability of adequate quantities, storage, and means of distributing KI.

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for institutionalized individuals and the general public is maintained. (NUREG-0654/FEMA-REP-1, J.10.e, f)

Extent of Play: There are no specialized facilities or institutionalized populations within the Lucas County portion of the EPZ.

The Ohio Department of Health (ODH) (through local health departments) makes KI available to the general public by pre- distribution and by distribution at reception centers. The decision to advise the general public to take KI will be based upon the recommendation of ODH.

The Reception Center was successfully demonstrated in 2015. Therefore, this criteria was not selected for demonstration at the Reception Center in 2017.

The Toledo/Lucas County Health Department will demonstrate at the EOC, via interview, distribution of KI for the General Public procedures.

KI will not be ingested as part of any demonstration.

Demonstration via interview will be conducted with the following agencies as indicated:

Organization	Location	Date	Time
Toledo/Lucas County Health Dept.	EOC	May 2	

Sub-Element 3.c – Implementation of Protective Actions for Persons with Access/Functional Needs

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement PADs, including evacuation and/or sheltering, for all persons with disabilities and access/functional needs. The focus is on those persons with disabilities and access/functional needs that are (or potentially will be) affected by a radiological release from an NPP.

Criterion 3.c.1: Protective action decisions are implemented for persons with disabilities and access/functional needs other than schools within areas subject to protective actions. (NUREG-0654/FEMA-REP-1, J.10.c, d, e, g)

Extent of Play: There are no special facilities or institutionalized populations within the Lucas County Portion of the EPZ.

A confidential list of people with access/functional needs (mobility impaired, hearing impaired, etc.) is maintained by the Toledo/Lucas County Health Department. Jerusalem Township Trustees and Jerusalem Township Fire Chief each receive a copy of the list. EMA is provided an abbreviated list with only the needs annotated. This abbreviated list enables

the EOC to mobilize resources without compromising individuals' privacy.

The EMA Operations Officer provides the abbreviated list to the EOC Fire and EMS Liaisons so that necessary resources can be staged and made available as directed by Jerusalem Township Fire. The abbreviated list will be made available to FEMA Evaluators for review and discussion.

Oregon School District Transportation Department will discuss their role in the evacuation of persons with access/functional needs.

Organization	Location	Date	Time
Oregon School District Transportation Dept.	Bus Garage	May 1	10:00 am

Criterion 3.c.2: OROs/School officials implement protective actions for schools. (NUREG-0654/FEMA-REP-1, J.10.c, d, e, g)

Extent of Play: Lucas County has no schools within the 10-Mile EPZ. However, an Oregon City School District Representative will be available for an interview in the Lucas County EOC to describe their process for identifying and holding for parental pick-up those students who reside in the 10-Mile EPZ.

Sub-Element 3.d – Implementation of Traffic and Access Control

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement protective action plans/procedures, including relocation and restriction of access to evacuated/sheltered areas. This sub-element focuses on selecting, establishing, and staffing of traffic and access control points, and removal of impediments to the flow of evacuation traffic.

Criteria 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel. (NUREG-0654/FEMA-REP-1, A.3; C.1, 4; J.10.g, j)

Extent of Play: Traffic and Access Control procedures will be demonstrated via interview at the EOC as follows:

During the EOC exercise, Traffic and Access Control procedures will be demonstrated via

interview by the Law Enforcement Coordinator and the Engineer's Office Liaison.

Once the EOC exercise has concluded, a Lucas County Sheriff's Road Patrol Deputy will demonstrate via interview the ability to implement the traffic/access control point. After the Sheriff's Road Patrol Deputy receives his dosimetry briefing from the Lucas County Sheriff's Dosimetry Coordinator, a Controller inject will be communicated to the Dosimetry Coordinator to have a Deputy simulate reporting to a Traffic Control Point/Access Control Point. An appropriately-equipped patrol unit will also be available for review at the EOC.

Criterion 3.d.2: Impediments to evacuation are identified and resolved. (NUREG-0654/FEMA-REP-1, J.10.k)

Extent of Play: The Law Enforcement Coordinator and the Lucas County Engineer's Office Liaison located in the EOC will demonstrate the capability to:

Identify impediments to evacuation.

Implement appropriate actions to remove or otherwise mitigate impediments.

A Controller inject will identify an impediment that will impact a major evacuation route and necessitate re-routing traffic and drive further discussion at the GE ECL.

Coordinate with the Public Information Liaison for public notification regarding re-routing.

Note activities on Log Form.

Sub-Element 3.e. – Implementation of Ingestion Pathway Decisions

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement protective actions, based on criteria recommended by current FDA guidance, for the ingestion exposure pathway EPZ (i.e., the area within an approximate 50-mile radius of the NPP). This sub-element focuses on those actions required for implementation of protective actions.

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions. (NUREG-0654/FEMA-REP-1, A.3, C.1, 4; J.11)

Extent of Play: N/A. Lucas County relies on the State of Ohio

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk, and agricultural production. (NUREG-0654/FEMA-REP-1, G.1, J.9, 11)

Extent of Play: N/A. Lucas County relies on the State of Ohio

Sub-Element 3.f – Implementation of Post-Plume Relocation, Re-entry, and Return Decisions

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement plans, procedures, and decisions for post-plume phase relocation, reentry, and return. Implementation of these decisions is essential for protecting the public from direct long-term exposure to deposited radioactive materials from a severe incident at a commercial NPP.

Criterion 3.f.1: Decisions regarding controlled re-entry of emergency workers and relocation and return of the public during post-plume phase are coordinated with appropriate organizations and implemented. (NUREG-0654/FEMA-REP-1, E.7, J.10.j; J.12; K.5.b; M.1, 3)

Extent of Play: Not Selected. This criterion was successfully demonstrated in 2013.

Evaluation Area 4 – Field Measurement and Analysis

Sub-Element 4.a – Plume Phase Field Measurement and Analyses

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to deploy FMTs with the equipment, methods, and expertise necessary to determine the location of airborne radiation and particulate deposition on the ground from an airborne plume. In addition, NUREG-0654/FEMA-REP-1 indicates that OROs must have the capability to use FMT's within the plume exposure pathway EPZ to detect airborne radioiodine in the presence of noble gases and radioactive particulate material in the airborne plume. In an incident at an NPP, the possible release of radioactive material may pose a risk to the nearby population and environment. Although incident assessment methods are available to project the extent and magnitude of a release, these methods are subject to large uncertainties. During an incident, it is important to collect field radiological data to help characterize any radiological release. Adequate equipment and procedures are essential to such field measurement efforts.

Criterion 4.a.1: [Reserved]

Criterion 4.a.2: Field teams (2 or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure. (NUREG-0654/FEMA-REP-1, C.1; H.12; I.7, 8, 11; J.10.a)

Extent of Play: N/A. Lucas County relies on the State of Ohio and on the Davis-Besse Nuclear Power Station

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media. (NUREG-0654/FEMA-REP-1, C.1; H.12; I.8, 9; J.10.a)

Extent of Play: N/A. Lucas County relies on the State of Ohio and on the Davis-Besse Nuclear Power Station

Sub-Element 4.b – Post Plume Phase Field Measurements and Sampling

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to assess the actual or potential magnitude and locations of radiological hazards to determine the ingestion exposure pathway EPZ and to support relocation, reentry, and return decisions. This sub-element focuses on collecting environmental samples for laboratory analyses that are essential for decisions on protecting the public from contaminated food and water and direct radiation from deposited materials.

Criterion 4.b.1: The field teams (2 or more) demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision making. (NUREG-0654/FEMA-REP-1, C.1; I.8; J.11)

Extent of Play: N/A. Lucas County relies on the State of Ohio

Sub-Element 4.c – Laboratory Operations

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to perform laboratory analyses of radioactivity in air, liquid, and

environmental samples to support protective action decision making.

Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions. (NUREG-0654/FEMA-REP-1, C.1, 3; J.11)

Extent of Play: N/A. Lucas County relies on the State of Ohio

Evaluation Area 5 – Emergency Notification and Public Information

Sub-Element 5.a – Activation of the Prompt Alert and Notification System

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to provide prompt instructions to the public within the plume exposure pathway EPZ. Specific provisions addressed in this sub-element are derived from the *Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants*, FEMA-REP-10 (November 1985).

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized off-site emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current FEMA REP guidance. (NUREG-0654/FEMA-REP-1, E.5, 6, 7)

Extent of Play: Ottawa County is responsible for primary EAS and siren activation.

Lucas County Executive Group will coordinate with Ottawa County for the times of siren activations and EAS messages, as well as the content of EAS messages and Special News Bulletins.

The Lucas County Executive Group will ensure that all elements of the EOC are aware of all EAS messages and Special News Bulletins issued to the public. EOC Liaisons will then disseminate the alert and notification information as appropriate to their chain of commands.

Criterion 5.a.2: (RESERVED)

Criterion 5.a.3: Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system. (NUREG-0654/FEMA-REP-1, E.6, Appendix 3.B.2.c)

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Extent of Play:

NOTE: The demonstration of Route Verification and Backup Route Alerting is deferred as noted below. The scenario and Extent of Play will be submitted to FEMA 30-45 days prior to the demonstration.

Organization	Location	Date	Time
Jerusalem Township Fire Dept.	Jerusalem Township Fire Dept.	September 6	7:00 pm

Criterion 5.a.4: Activities associated with FEMA-approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. (NUREG-0654/FEMA-REP-1, E.6; Appendix 3.B.2.c)

Extent of Play: N/A. There are no exception areas located in Lucas County.

Sub-Element 5.b – Subsequent Emergency Information and Instructions for the Public and the Media

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to disseminate appropriate emergency information and instructions, including any recommended protective actions, to the public. In addition, NUREG-0654/FEMA-REP-1 requires OROs to ensure that the capability exists for providing information to the media. This includes the availability of a physical location for use by the media during an emergency. NUREG-0654/FEMA-REP-1 also provides that a system must be available for dealing with rumors. This system will hereafter be known as the “public inquiry hotline”.

Criterion 5.b.1: OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner. (NUREG-0654/FEMA-REP-1, E.5, 7; G.3.a, G.4.a, c)

Extent of Play: In accordance with the RERP and SOP's, the JIC will be activated and staffed by Public Information Officers (PIOs) from Ottawa County, Lucas County, the State, Federal Agencies and the utility upon declaration of an ALERT. News statements will be coordinated with all participating PIOs with briefings held jointly, as appropriate.

Upon arrival at the JIC, the Lucas County PIO will establish and remain in contact with the Public Information Liaison in the Lucas County EOC who will serve as the primary contact point for all public information related matters within the Lucas County EOC.

The Public Information Liaison will ensure that the Commissioners are aware of information being disseminated to the news media. The PIO will coordinate with the Public Information Liaison to receive Commissioner's approval on news statements affecting Lucas County prior to dissemination to the news media.

A public inquiry telephone will be used to allow public inquiry staff to demonstrate the capability to identify trends in rumors (e.g., frequently expressed false or misleading information). The public inquiry staff will demonstrate the capability to provide or obtain accurate information for callers or refer them to an appropriate source. Information from the hotline staff, including information that corrects false or inaccurate information when trends are noted, will be included as appropriate in emergency information provided to the public, media briefings and/or media releases.

A media briefing will not be demonstrated in the Lucas County EOC. Media briefings are conducted/demonstrated at the JIC.

Evaluation Area 6 – Support Operation/Facilities

Sub-Element 6.a: Monitoring and Decontamination, and Registration of Evacuees

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement radiological monitoring and decontamination of evacuees, while minimizing contamination of the facility. OROs must also have the capability to identify and register evacuees at reception centers.

Criterion 6.a.1: The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees. (NUREG-0654/FEMA-REP-1, A.3; C.4; J.10.h; J.12)

Extent of Play: Not Selected. This criterion was successfully demonstrated in 2015.

Sub-Element 6.b – Monitoring and Decontamination of Emergency Workers and their Equipment and Vehicles

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have their capability to implement radiological monitoring and decontamination of emergency workers and their equipment, inclusive of vehicles.

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Criterion 6.b.1: The facility/ORO has adequate procedures and resources to accomplish monitoring and decontamination of emergency workers and their equipment and vehicles. (NUREG-0654/FEMA-REP-1, K.5. a, b)

Extent of Play: Emergency Worker Monitoring and Decontamination will be demonstrated out-of-sequence on Wednesday, May 3, 2017, beginning at 6:30 pm, at the Jerusalem Township Fire Department. The demonstration will be driven by mini-scenario and Controller injects.

Initial monitoring, utilizing a Bicron Portal Monitor, will identify one contaminated Emergency Worker who will be processed through the facility. Hand-held instrumentation will be available and utilized as needed. Controller injected radiation levels will be sufficient to drive the need for decontamination and discussion of decontamination procedures.

Decontamination will be simulated. The decontamination personnel will demonstrate appropriate use of PPE, monitoring equipment, personal dosimetry, and have available for discussion with the Evaluator all necessary decontamination supplies and equipment.

The proper sequence for decontamination efforts, and the decisions to refer individuals who cannot be decontaminated to medical facilities, will be demonstrated via interview.

Two emergency workers will be monitored. A Controller-injected message will designate one emergency worker as contaminated. Emergency worker decontamination will be demonstrated via interview.

Emergency worker vehicle monitoring will be physically demonstrated on one vehicle. Vehicle decontamination will be demonstrated via interview.

Emergency workers will make available, and be prepared to discuss, an inventory of actual supplies that would be used to support vehicle monitoring and decontamination.

Set-up will be in accordance with plans and procedures.

Controller injects will drive contamination level monitoring and decontamination decision-making by the players in accordance with plans and procedures.

Organization	Location	Date	Time
Jerusalem Township Fire Dept.	Jerusalem Township Fire Dept.	May 3	6:30 pm

Sub-Element 6.c – Temporary Care of Evacuees

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires OROs to have the capability to establish relocation centers in host/support jurisdictions. The American Red Cross normally provides congregate care in support of OROs under existing letters of agreement.

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities (NUREG-0654/FEMA-REP-1, J.10.h; J.12)

Extent of Play: Not Selected. This criterion was successfully demonstrated in 2015.

Sub-Element 6.d – Transportation and Treatment of Contaminated Injured Individuals

Intent: This sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to transport contaminated injured individuals to medical facilities with the capability to provide medical services.

Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals. (NUREG-0654/FEMA-REP-1, F.2; H.10; K.5.a, b; L.1, 4)

Extent of Play: Deferred as noted below:

Organization	Location	Date	Time
Jerusalem Township Fire Dept	Jerusalem Township Fire Dept	September 7	8:00 am
Mercy St. Charles Hospital	Mercy St. Charles Hospital	September 7	8:00 am

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Attachment 1: Lucas County Assignments and Locations

Davis-Besse Nuclear Power Plant Graded Exercise

Lucas County, Monday, May 1, 2017

Assignments and Locations

PROTECTIVE ACTION IMPLEMENTATION – SCHOOL		
Address:	Oregon City Schools Transportation Department 5721 Seaman Road Oregon, Ohio 43616	
Contact:	Aletha Reshan	
Telephone:	419-708-4061	
Action Location:	Oregon Bus Garage	
Date:	Monday, May 1, 2017	
Time:	10:00 am	

Davis-Besse Nuclear Power Plant Graded Exercise

Lucas County, Tuesday, May 2, 2017

Assignments and Locations

INITIAL NOTIFICATION COUNTY SHERIFF'S DISPATCH		
Address:	Lucas County Emergency Services Building 2144 Monroe Street Toledo, Ohio 43604	
Contact:	Janet Boland	
Telephone:	440-969-4902	
Action Location:	Lucas County Sheriff's Dispatch Center, 2 nd Floor	
Date:	Tuesday, May 2, 2017	
Time:	7:00 am	

EMERGENCY OPERATIONS CENTER		
Address:	Lucas County Emergency Services Building 2144 Monroe Street Toledo, Ohio 43604	
Contact:	Janet Boland	
Telephone:	440-969-4902	
Action Location:	EOC, 1 st Floor	
Date:	Tuesday, May 2, 2017	
Time:	7:00 am	

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IMPLEMENTATION OF KI DECISION FOR INSTITUTIONALIZED INDIVIDUALS AND THE GENERAL PUBLIC		
Address:	Lucas County Emergency Services Building 2144 Monroe Street Toledo, Ohio	
Contact:	Janet Boland	
Telephone:	440-969-4902	
Action Location:	EOC, 1 st Floor	
Date:	Tuesday, May 2, 2017	
Time:	In-Sequence with scenario	
Additional Info:	KI inventory for General Public	

TRAFFIC & ACCESS CONTROL / PROTECTIVE ACTION IMPLEMENTATION – EMERGENCY WORKER		
Address:	Lucas County Emergency Services Building 2144 Monroe Street Toledo, Ohio 43604	
Contact:	Aletha Reshan	
Telephone:	419-708-4061	
Action Location:	EOC, 1 st Floor	
Date:	Tuesday, May 2, 2017	
Time:	Post-EOC exercise	

**Davis-Besse Nuclear Power Plant Graded Exercise
Lucas County, Wednesday, May 3, 2017
Assignments and Locations**

MONITORING AND DECONTAMINATION OF EMERGENCY WORKERS AND THEIR EQUIPMENT AND VEHICLES		
Address:	Jerusalem Township Fire Department 9501 Jerusalem Rd. Curtice, Ohio 43412	
Contact:	Aletha Reshan	
Telephone:	419-708-4061	
Action Location:	Same as above	
Date:	Wednesday, May 3, 2017	
Time:	6:30 pm	

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ROUTE VERIFICATION / BACKUP ROUTE ALERTING		
Address:	Jerusalem Township Fire Department 9501 Jerusalem Rd. Curtice, Ohio 43412	
Contact:	Aletha Reshan	
Telephone:	419-708-4061	
Action Location:	Same as above	
Date:	Wednesday, September 6, 2017	
Time:	7:00 pm	

TRANSPORTATION AND TREATMENT OF CONTAMINATED INJURED INDIVIDUALS		
Address:	Jerusalem Township Fire Department 9501 Jerusalem Rd. Curtice, Ohio 43412	
Contact:	Aletha Reshan	
Telephone:	419-708-4061	
Action Location:	Same as above	
Date:	Thursday, September 7, 2017	
Time:	8:00 am	

TRANSPORTATION AND TREATMENT OF CONTAMINATED INJURED INDIVIDUALS		
Address:	Mercy St. Charles Hospital 2600 Navarre Ave. Oregon, Ohio 43616	
Contact:	Aletha Reshan	
Telephone:	419-708-4061	
Action Location:	Same as above	
Date:	Thursday, September 7, 2017	
Time:	8:00 am	

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APPENDIX F: SCENARIO TIMELINES

This Appendix presents the Onsite/Offsite Scenario Timelines for the State of Ohio and Ottawa and Lucas Counties that drove the Davis-Besse Nuclear Power Station Radiological Emergency Preparedness, Partial-Participation, Plume Exposure Pathway Exercise conducted on May 2, 2017. The timelines include both Onsite events and comments and expected Offsite response actions.

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Onsite/Offsite Scenario Timeline

Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	The on-shift Shift Manager is briefed and the Drill Authorization Form is approved.		0630	
	A Control Room Liaison (Member of the Controller Organization) is positioned in the real Control Room to: <ul style="list-style-type: none">• Respond to questions from the plant Shift Manager.• Facilitate sounding of plant alarms.• Advise Lead Controller of changes in plant conditions that may impact the Evaluated Exercise.			
1	Operator Shift personnel designated to participate in the exercise are briefed in Control Room Simulator prior to taking control of the plant (Control Room/Simulator)	-00/45	0700	
2	Onshift Maintenance, Chemistry, Radiation Protection and OSC management are briefed in the OSC on simulated plant conditions and receive their pre-drill safety briefing.	-00/15	0730	

NOTE: The scenario will utilize the Control Room Simulator (CRS) to conduct Operator response instead of the Plant Control Room. An off-shift Operations Control Room crew

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	<p>will be pre-staged and briefed at the Control Room Simulator.</p> <p>The Equipment Operators will be pre-staged in the plant. Pre-designated Maintenance, Chemistry and Radiation Protection Personnel will assemble at the OSC once it is activated. Since players will not be able to use their normal communications channels to contact the Control Room, a "Drill Phone List" will be provided.</p>			
	<p style="text-align: center;">CAUTION</p> <p><i>Entry into Protected Train room(s) requires permission from the on-shift Shift Manager PRIOR to room entry. If the on-shift Shift Manager is not available, any on-shift Senior Reactor Operator may grant permission. The total number of individuals entering, and the purpose of entry should be communicated. The PLAYER is responsible for obtaining permission PRIOR to room entry. (CA 03-04598-01)</i></p>			
3	JIC Setup Instructions and safety briefing material are provided to JIC Manager. Security will be established on the 8 th floor for the restricted JIC areas.	00/00+	0745+	
4	DBAB Security setup instructions for the ERFs in the DBAB. To allow non-participating	00/00+	0745+	

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	personnel to continue work a bypass around the TSC and EOF hallway will be established.			
	Control Room Simulator operations shift takes control of Control Room Simulator with the following events in progress <ul style="list-style-type: none"> • Plant is at 100% power, at 450 EFPD. • All plant systems are in automatic. • All plant chemistry parameters are stable and in specification. • Winds are from the east-northeast at 6 mph. Stability class is "D". • Protected Train is Train 2. 			
5X	Control Cell Instructions for addressing multiple calls from the ERO on the same issue.	00/00+	0745+	
6X	Safety Briefing for personnel who did not attend the Player's Briefing, Simulator briefing or the OSC pre job briefing.	00/00+	0745+	
	The Lead Controller at the Control Room Simulator will direct the following actions:			
7	<ol style="list-style-type: none"> 1. A Gai-Tronics announcement for the start of the scenario. 2. Message to ERO mobile devices advising the ERO that messages that follow are related to the scenario. (INPO also receives this message). 	00/00	0745	

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
8	The NRC Headquarters Duty Officer will be notified by the Control Cell that Davis Besse will be conducting an Emergency Preparedness drill and that drill ERDS will be sent to the NRC.	00/00	0745	
9	INPO Emergency Director and Asst. Emer. Director notified DBNPS will be conducting an Emergency Preparedness drill.	00/00	0745	
10X	Contingency cue card to be used in the event that the Control Room Simulator locks up.	00/00+	0745+	
INITIATING EVENT FOR THE ALERT				
	Control Room Simulator Operators will hear and experience seismic event.	00/15	0800	
	Control Room Simulator personnel will observe OBE alarm indication on seismic alarm panel C5764A	~00/15	~0800	
11	Reports to the Control Room Simulator from plant personnel (Security) confirm earthquake was felt in the plant. If paged, Equipment Operators report noise in the plant, buildings shaking and dust, but no observable damage.	00/17	0802	
12X		00/15+	0800+	
13X	The Control Room Simulator crew begins a controlled plant shutdown (limited to 0.5% per minute for Evaluated Exercise purposes)	00/15+	0800+	
14X	Information about the earthquake is available to the ERO through USGS and simulated local agencies.	00/15+	0800+	
15X				
16X				

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	ALERT			
	The Shift Manager and his staff evaluate the indications and classify an ALERT in accordance with EAL HA3.1 due to >Operating Basis Earthquake seismic event (Refer to Section 6.2 EAL DECLARATION TABLE for EAL details)	00/30 (T = 15)	0815 (T = 15)	
	The Control Room Simulator operators takes the following actions in accordance with RA-EP-01700, Alert:			
	<ul style="list-style-type: none"> Station Alarm will be sounded. The ALERT Gai-Tronics announcement will be made at the Control Room Simulator. 	00/30+	0815+	
	<div style="border: 1px solid black; padding: 5px;"> <p><i>NOTE:</i> Plant alarms will be sounded from the Plant Control Room since they are not accessible from the Control Room Simulator. However, the ERO should carry out their actions as if it were occurring.</p> </div>			
17X	<ul style="list-style-type: none"> A modified Protected Area announcement will be made. Protected 	00/30+	0815+	
18X	<ul style="list-style-type: none"> Area non-essential personnel assembly will be simulated. 	00/30+	0815+	
	<ul style="list-style-type: none"> The Computerized Automated Notification System (CANS) will be activated to notify and call out the Emergency Response Organization (ERO). 			

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	<ul style="list-style-type: none"> Ottawa and Lucas Counties and the State of Ohio are notified of the ALERT, utilizing the dedicated telephone system in accordance with RA-EP-02110, Emergency Notification procedure. The NRC will be notified in accordance with RA-EP-02110, Emergency Notification procedure. Notification to NRC will be simulated with call to the Utility Control Cell. 			<p>Ottawa and Lucas Counties Sheriff's Dispatchers and the State of Ohio Highway Patrol Dispatcher receive notification of the ALERT.</p> <p>State and County Dispatchers notify key offsite response agency representatives.</p>
	Normal access to the Owner Controlled Area, DBAB ERFs and the Protected Area are restricted in accordance with RA-EP-02510, Emergency Security Organization Activation and Response.			
19X	Contingency cue card to be used in the event that the SM in the Control Room Simulator does not declare an ALERT by this time or is imminent. This is needed in order to keep the scenario timeline on schedule.	00/30+	0815+	
	Normal access to the Owner Controlled Area, DBAB ERFs and the Protected Area are restricted in accordance with RA-EP-02510, Emergency Security Organization Activation & Response.			

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
20	Normal access to the Owner Controlled Area and Protected Area will be restored by the Controllers after approximately 30 minutes or when traffic backup becomes a safety issue for non-participating personnel.	~00/30	~0815	
21	Responding Security locks down the DBAB. ERF (TSC) hallway access is restricted to authorized personnel only.	00/30+	0815+	
22	The Emergency Director directs the dismissal of training classes and sending non-essential contractors and visitors home. SIMULATED to the Control Cell.	00/30+	0815+	State and Counties activate their EOCs and mobilize demonstrated elements of their staffs.
	Emergency Response Organization (ERO) staff responds to the Emergency Response Facilities (ERFs) and begin facility activation.			State of Ohio activates their Assessment Room (EMA, OEPA, ODH) in the
				State EOC to monitor the events at the Station. Selected Emergency Responders are alerted and placed on standby.
	Once the TSC and EOF are activated, the Emergency Director in the DBAB obtains a turnover from the Emergency Director in the Control Room Simulator in accordance with the RA-EP-02010, Emergency Management.			County agencies are notified and key personnel respond to the county Emergency Operations Centers (EOCs).
	<div style="border: 1px solid black; padding: 5px;">NOTE: The Emergency Assistant Plant Manager in the Control Room Simulator should relieve the Emergency Director in the Control</div>			County and pre-staged State personnel may be dispatched to the EOF and JIC.

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	Room Simulator unless turnover to the EOF is imminent.			
	The Company Public Affairs Duty Officer (PADO) provides news statements as required prior to activation of the Joint Information Center (JIC).			Emergency Alert System (EAS) brought to an "ALERT" status (simulated). SIMULATED - Bus drivers are mobilized. SIMULATED - In accordance with the Ottawa County plan, EMA considers closing parklands (Sub-area 10) and restricting Lake Erie boating traffic to Sub-area 12.
	(MS-1) Control Room Simulator Annunciator 11-3-E (CIRC WATER PUMP TEMP HI) alarm, due to high stator temperature on Circ. Water Pump #4. Operators trip Circ. Water Pump #4.	01/30	0915	
EQ-1	(MS-1) OSC Electrical Repair Teams investigate Circ. Water Pump trip. If inspected, no unusual indications with pump motor or breaker. Breaker is reset, Circ. Water Pump may be returned to service.	01/30+	0915+	
23	Emergency Offsite Manager in EOF receives call from INPO Asst. Emergency Director to follow up on DB emergency call out system	~01/45	~0930	
		02/13	0958	

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
24	Second, strong aftershock seismic event occurs. The earthquake is felt and heard in the Control Room.	02/13	0958	
	Security contacts Control Room Simulator to report second earthquake felt in the plant.			State and Counties issue news statements as required.
25X	Once the JIC is activated, news statements are prepared and media briefings held at the JIC.	02/13+	0958+	
26X				
27X	Information about the second earthquake (aftershock) is available to the ERO through USGS and simulated local agencies.			
INITIATING CONDITION FOR THE SITE AREA EMERGENCY				
	1,000 gpm Reactor Coolant System develops. Control Room Simulator determines RCS Leak > 250 gpm. This represents Potential Loss of RCS Fission Product Barrier.	02/17	1002	
	Crew manually trips the reactor.			
	Containment atmosphere radioactivity begins to increase (RE 4597AA/BA)	02/17	~1002	
EQ-2	(MS-2) Equipment Operator reports damage (warping) to Containment Air Lock Door start at this time.	02/31	1016	
	Personnel Air Lock fails, creating leak pathway from Containment into the Annulus. Simulator crew observes decrease in Containment pressure (following increase due to the LOCA). This represents Loss of Containment Fission	02/31	1016	

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	Product Barrier (loss of 2 nd Fission Product Barrier).			
EQ-3X	(MS-2) OSC Teams dispatched to inspect and repair the Containment Personnel Air Lock Door will report they are unsuccessful in repairing Air Lock Door.	02/31+	1016+	
	Containment radiation levels > 15 R/hr on RE 4596 A/B (Loss of RCS FPB)	02/40	1025	
SITE AREA EMERGENCY				
	The Emergency Director declares a SITE AREA EMERGENCY based on EAL FS1 , Loss or potential loss of any two barriers (RCS Barrier and Containment Barrier). (Refer to Section 6.2 EAL DECLARATION TABLE for EAL details)	02/46 (T=15)	1031 (T=15)	
	The following actions are taken in accordance with RA-EP-01800, Site Area Emergency:	~02/46	~1031	
28X	<ul style="list-style-type: none"> Station Alarm is sounded and the SITE AREA EMERGENCY announcement is made via a request from the Emergency Director in the Emergency Operations Facility. An OCA Public Address announcement is made by EOF. 	~02/46	~1031	

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	Ottawa and Lucas Counties and the State of Ohio are notified of the SITE AREA EMERGENCY classification.			Ottawa and Lucas Counties and the State of Ohio receive notification of the SITE AREA EMERGENCY, using the dedicated telephone system.
	The NRC Incident Response Center notifications (i.e., Red phone) (Simulated to the Control Cell).			
	News statements are prepared and media briefings held at the Joint Information Center (JIC).			Ottawa County confirms activation of Sandusky and Erie County Emergency Response Organizations.
29X	Contingency input in the event a SITE AREA EMERGENCY has not been declared by this time.	02/46+	1031+	State and County officials notify Emergency Response Organizations of the change in classification. The EAS and siren systems are activated (simulated).
	NOTE: Evacuation of PA non-essential personnel will be simulated. However, the ERO should carry out their actions as if it were occurring. The Control Cell will perform the role of Assembly Area Coordinators and respond to the ERO directions for relocation of nonessential personnel.			
30X	Following the Site Area Emergency upgrade, informational message is sent to ERO mobile devices.	~02/50	~1035	
31X	Following the Site Area Emergency announcement Security performs accountability in accordance with RA-EP-02520, Assembly and Accountability and IS-DP-00026,	02/46+	1031+	

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	Guidelines for Alarm Station Operations. The print-out is taken to the OSC in accordance with RA-EP-02520, Assembly and Accountability.			
32X	On receiving the Accountability printout the OSC Manager will review the report with security and determine that everyone in the Protected Area is accounted for.	02/46+	1031+	
	The NRC Incident Response Center notifications (i.e., Red phone) are made to the Utility Control Cell.			State and County officials notify Emergency Response Organizations of the change in classification.
	News statements are prepared and media briefings held at the Joint Information Center (JIC).			State and counties provide news statements and are represented at JIC media briefings.
33X	If requested by offsite, the EOF verifies the siren activation by polling the siren feedback system.	02/46+	1031+	
34X	Emergency Facilities Services Manager (TSC) receives calls from Assembly Area Coordinators on location and numbers of site personnel assembled.	02/46+	1031+	
EQ-4	(MS-3) Aux. Boiler Steam Drum level instrument malfunction. Control Room Simulator annunciator 9-2-D and report from Aux. Boiler Operator.	~03/15	~1100	
EQ-5		03/15+	1100+	

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	(MS-3) OSC I&C Repair team troubleshoots and finds malfunctioning level instrument on the Aux. Boiler.			
	Non-Routine Release in Progress via the Station Vent (below Protective Action Guidelines, not requiring Protective Action Recommendations)	03/25	1110	
INITIATING CONDITION FOR THE GENERAL EMERGENCY				
	Containment radiation levels exceed Graph F-1 (CT-2) Loss of Fuel Clad based on Containment radiation monitoring (3 rd FPB). (Previously loss of CTMT and RCS FPB)	04/25	1210	
GENERAL EMERGENCY				
	The Emergency Director declares a GENERAL EMERGENCY in accordance with EAL FG1 : Loss of any two barriers and loss or potential loss of the third barrier. (Refer to Section 6.2 EAL DECLARATION TABLE for EAL details)	04/40 (T=15)	1225 (T=15)	Ottawa County confirms activation of Sandusky and Erie County Emergency Response Organizations.
	The following actions are taken in accordance with RA-EP-01900, General Emergency procedure:			
35X	<ul style="list-style-type: none"> Station Alarm is sounded and the drill GENERAL EMERGENCY announcement is made via a request from the Emergency 	04/40+	1225+	Fire Departments conduct route verification and notify mobile/hearing impaired (simulated).

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	<p>Director in the Emergency Operations Facility.</p> <ul style="list-style-type: none"> Dose Assessment staff performs calculations and provides offsite protective action recommendations (RA-EP-02245) to evacuate 2-mile radius, 5-miles downwind, Sub-areas 1, 2, 10, and 12. The offsite radiological release at this time is < PAG and does not require PARs based on projected dose. <p>Ottawa and Lucas Counties and the State of Ohio are notified of the GENERAL EMERGENCY classification and the Protective Action Guidelines.</p> <p>The NRC Incident Response Center notifications (i.e., Red phone) are made to the Utility Control Cell.</p>			<p>Ottawa and Lucas Counties and the State of Ohio receive notification of the GENERAL EMERGENCY, using the dedicated telephone system.</p> <p>State and County officials notify Emergency Response Organizations of the change in classification.</p>
36	<p>Evacuation of non-essential Station personnel initiated. (simulated)</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><i>NOTE:</i> Evacuation of non-essential personnel to an offsite assembly site will be simulated. However, the ERO should carry out their actions as if it were occurring.</p> </div>	04/40+	1225+	<p>State and Counties monitor plant conditions.</p> <p>State of Ohio develops plume dose projections.</p> <p>State of Ohio coordinates with Ottawa and Lucas Counties in developing Protective Action Recommendations.</p>

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
				Ottawa and Lucas Counties provide protective action decisions to the public (simulated).
				The EAS and siren systems are activated (simulated).
				Following the simulated siren sounding, Ottawa County may request the Utility verify the siren status.
				Ottawa County notifies special facilities of evacuation. Ottawa County authorizes relocation of special facilities, as applicable (simulated).
				Ottawa and Lucas Counties assure monitoring of emergency worker exposure.
				Counties monitor evacuation routes (simulated).
	News statements are prepared and media briefings held at the Joint Information Center (JIC).			State and counties provide news statements and are represented at JIC media briefings.
				Ottawa and Lucas Counties implement KI decision, if requested, by ODH (simulated).
37X	Contingency input in the event a GENERAL EMERGENCY has not been declared by this time.	04/40+	1225+	Host counties staff reception and care centers, and emergency worker decontamination monitoring stations (simulated).

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
38X	Following the General Emergency upgrade, informational message is sent to ERO mobile devices.	~04/44	~1229	
	Projected Offsite doses now exceed Protective Action Guideline limits of 1,000 mrem TEDE, 5,000 CDE Child Thyroid. Dose Assessment staff performs calculations and identifies no changes required to the existing offsite protective action recommendations (RA-EP-02245).	~04/05	~1250	
	The Recovery Advisor collects data for the recovery plan in accordance with RA-EP-02720, Recovery.			
	<div style="border: 1px solid black; padding: 10px;"> <p><i>NOTE:</i> Lead Controller shall contact all onsite and offsite Lead Facility Controllers to ensure objectives have been met prior to terminating the evaluated exercise.</p> <p>Some facility may be engaged in activities that continued beyond the end of the evaluated exercise such as a media briefing or data evaluation.</p> </div>			
39	Termination announcement is made over the Gai-Tronics and in all ERFs.	06/15	1400	
	The following actions are taken by controllers:	06/15	1400	State and Counties receive notification that the Evaluated Exercise is terminated.

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Cue Card #	Utility Action	Drill Time	Approx Time	Offsite Action
	<ul style="list-style-type: none">An All Clear message is sent to ERO mobile devices indicating that the drill is over and all ERO messages that follow are real.			
40	<ul style="list-style-type: none">The NRC will be notified by the Control Cell that the Davis-Besse drill activities have ended.	06/15	1400	
41	<ul style="list-style-type: none">INPO will be notified by the Control Cell that the Davis-Besse drill activities have ended.	06/15	1400	
42	A short break will be taken. Following the break, self-critiques will be held in each of the participating facilities.	06/15	1400	

Unclassified
Radiological Emergency Preparedness (REP) Program

After Action Report/Improvement Plan

Davis-Besse Nuclear Power Station

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