



Nuclear Power Plant Exercise

Dresden Generating Station

Radiological Emergency Preparedness Exercise

Radiological Emergency Preparedness Program

Final After-Action Report/Improvement Plan

Exercise Date: March 28, 2023

Report Date: May 28, 2023



FEMA

Table of Contents

Executive Summary	1
Section 1: Exercise Overview	2
Section 2: Exercise Design Summary	3
2.1 Exercise Purpose	3
2.2 Exercise Core Capabilities	3
Section 3: Analysis of Capabilities	6
3.1 Exercise Evaluation and Results	6
Table 3.1.1 Summary of Exercise Evaluation - State of Illinois Out-of-Sequence Activities	7
Table 3.1.2 Summary of Exercise Evaluation – Will County Out-of-Sequence Activities.....	8
Table 3.1.3 Summary of Exercise Evaluation – Grundy County In-Sequence Activities.....	9
Table 3.1.4 Summary of Exercise Evaluation – Grundy County Out-of-Sequence Activities	10
Table 3.1.5 Summary of Exercise Evaluation - Kendall County In-Sequence Activities	11
Table 3.1.6 Summary of Exercise Evaluation - Kendall County Out-of-Sequence Activity	12
3.2 Detailed Results of Exercise Evaluation	13
3.2.1 State of Illinois Out-of-Sequence	13
3.2.1.1 Illinois State Police Troop 3, South Sub Post.....	13
3.2.1.2 Medical Services Drill - AdventHealth Bolingbrook - Hospital	133
3.2.1.3 Medical Services Drill - AdventHealth Bolingbrook – Transportation.....	14
3.2.2 Will County Out-of-Sequence.....	144
3.2.2.1 Elwood Community Consolidated School District 203 – Interview	144
3.2.3 Grundy County In-Sequence	15
3.2.3.1 Initial Warning Point.....	15
3.2.3.2 Emergency Operations Center.....	15
3.2.3.3 Sheriff’s Department in EOC	177
3.2.3.4 WCMY/WCSJ Radio Station.....	18
3.2.4 Grundy County Out-of-Sequence.....	188
3.2.4.1 Morris Community High School District #101 - Interview.....	188
3.2.4.2 Morris Community Elementary School District #54 - Interview	19
3.2.5 Kendall County In-Sequence.....	20
3.2.5.1 Initial Warning Point.....	20
3.2.5.2 Kendal County Emergency Operations Center	200
3.2.5.3 Kendall County Sheriff’s Department in EOC.....	23
3.2.5.4 WSPY Radio Station	233

3.2.6 Kendall County Out-of Sequence.....	24
3.2.6.1 Re-entry, Relocation, Re-entry, Reoccupancy (RRRR)	24
Section 4: Conclusion	25
Section 5: Improvement Plan	26
Appendix A: Exercise Timeline.....	27
Appendix B: Participating Organizations.....	288
Appendix C: Evaluation Team.....	29
Appendix D: Acronyms and Abbreviations.....	311
Appendix E: Onsite/Offsite Scenario Timeline.....	36
Appendix F: Extent-of-Play Agreement.....	422

Executive Summary

On March 28, 2023, the United States Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) Region 5 Radiological Emergency Preparedness Program evaluation team evaluated the Dresden Generating Station's Partial-Participation, Plume Exposure Pathway, Re-entry, Relocation, Return, Re-occupancy, Radiological Emergency Preparedness Exercise in the Emergency Planning Zone for the Dresden Generating Station. The Dresden Generating Station was located in Grundy County, Illinois.

The purpose of the exercise was to assess the level of state and local preparedness in responding to a radiological incident at the Dresden Generating Station. This exercise was conducted in accordance with the DHS/FEMA policies and guidance concerning the exercise of state and local radiological emergency response plans and procedures. The previous federally evaluated exercise at this site was conducted on July 20, 2021. The qualifying emergency preparedness exercise was conducted on September 30, 1981.

Officials and representatives from the State of Illinois and the risk counties of Grundy, Kendall, Will, and the Licensee participated in this exercise. State and local officials demonstrated knowledge of their emergency response plans and procedures and successfully implemented them. The DHS/FEMA evaluation team identified no Level 1 or Level 2 Findings and no Plan Issues for the 2023 Dresden Generating Station Exercise.

The DHS/FEMA wishes to acknowledge the efforts of the many individuals who participated in the exercise and made it a success. Approximately 200 individuals participated in the off-site portion of the exercise, including local volunteers. The professionalism and teamwork of the participants was evident throughout all phases of the exercise.

Section 1: Exercise Overview

Exercise Name	2023 Dresden Generating Station Radiological Emergency Preparedness Exercise	
Type of Exercise	Partial Participation, Plume Exposure Pathway and Re-Entry, Relocation, Return, Re-occupancy (for Kendall County only), Radiological Emergency Preparedness Exercise	
Exercise Date	March 28, 2023	
Out of Sequence Date(s)	March 7, 2023; March 22, 2023; and March 29, 2023	
Program	Radiological Emergency Preparedness Program	
FINAL Scenario Submittal to FEMA	January 27, 2023	
FINAL Extent-of-Play Agreement Submittal to FEMA	March 1, 2023	
Mission Area	Response, Mitigation, Protection	
Core Capabilities	Access Control/Identity Verification	Natural & Cultural Resources
	Critical Transportation	On-Scene Security, Protection, & Law Enforcement
	Environmental Response/Health & Safety	Operational Communication
	Health & Social Services	Operational Coordination
	Housing	Planning
	Situational Assessment	Public Health, Healthcare, & Emergency Medical Services
	Mass Care Services	Public Information & Warning
Participating Organizations	See Appendix B for the list of Participating Organizations	
Evaluated Facilities	See Appendix F for the Extent-of-Play Agreement	
Exercise Planning Team	Illinois Emergency Management Agency Grundy County Emergency Management Agency Kendall County Emergency Management Agency Will County Emergency Management Agency Constellation Emergency Preparedness	
FEMA Exercise Evaluation Leadership Team	Sean O'Leary, RAC Chair Stephen Tulley, Exercise Director Edward Golinski, Assistant Director Carl Bebrich, Assistant Director Curtis Williams, Site Specialist	

Section 2: Exercise Design Summary

2.1 Exercise Purpose

The U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) administers the Radiological Emergency Preparedness Program pursuant to the regulations found in Title 44 CFR parts 350, 351, 352, 353, and 354. CFR § 350 codifies 16 planning standards that form the basis for radiological emergency response planning for the licensee, state, local, tribal, and territorial governments impacted by the emergency planning zones established for each nuclear power plant site in the United States. United States Nuclear Regulatory Commission regulations also codify the 16 planning standards for the licensee. The Title 44 CFR § 350 sets forth the mechanisms for the formal review and approval of state, local, tribal, and territorial government radiological emergency response plans and procedures by DHS/FEMA. One of the Radiological Emergency Preparedness Program cornerstones established by these regulations is the biennial exercise of offsite response capabilities. During these exercises, affected state, local, tribal, and territorial governments demonstrate the capability to implement their plans and procedures to protect the health and safety of the public in the event of a radiological incident at a nuclear plant.

The results of this exercise, together with reviews of the radiological emergency response plans and verification of the periodic requirements set forth in NUREG-0654/FEMA-REP-1, the annual letter of certification, and staff assistance visits, enabled DHS/FEMA to provide a statement with the transmission of this final after-action report to the United States Nuclear Regulatory Commission. This statement verifies that the affected state, local, tribal, and territorial plans, and preparedness are: (1) adequate to protect the health and safety of the public living in the vicinity of the nuclear power facility by providing reasonable assurance that appropriate protective measures can be taken offsite in the event of a radiological incident; and (2) capable of being implemented. Using the Homeland Security Exercise and Evaluation Program methodology, core capabilities-based planning allows for exercise planning teams to develop exercise objectives and observe exercise outcomes through a framework of specific action items.

2.2 Exercise Core Capabilities

Furthermore, in an effort to strengthen response against catastrophic incidents, DHS/FEMA is aligning the REP Program with the National Preparedness System to ensure that not only preparedness is addressed, but also the five mission areas: prevention, protection, recovery, response, and mitigation. Additionally, the exercise objectives and capability targets assessed meet Radiological Emergency Preparedness Program Manual requirements and objectives. The core capabilities scheduled for demonstration during this exercise were:

- **Access Control/Identity Verification:** Apply a broad range of physical, technological, and cyber measures to control admittance to critical locations and systems, limiting access to authorized individuals to carry out legitimate activities.
- **Critical Transportation:** Provide transportation (including infrastructure access and accessible transportation services) for response priority objectives, including the evacuation of people and animals, and the delivery of vital response personnel, equipment, and services into the affected areas.
- **Environmental Response/Health and Safety:** Conduct appropriate measures to ensure the protection of the health and safety of the public and workers, as well as the environment, from all-hazards in support of responder operations and the affected communities.

- **Health and Social Services:** Restore and improve health and social services networks to promote the resilience, independence, health (including behavioral health), and well-being of the whole community.
- **Housing:** Implement housing solutions that effectively support the needs of the whole community and contribute to its sustainability and resilience.
- **Mass Care Services:** Provide life-sustaining and human services to the affected population, to include hydration, feeding, sheltering, temporary housing, evacuee support, reunification, and distribution of emergency supplies. Move and deliver resources and capabilities to meet the needs of disaster survivors, including individuals with access and functional needs.
- **Natural and Cultural Resources:** Protect natural and cultural resources and historic properties through appropriate planning, mitigation, response, and recovery actions to preserve, conserve, rehabilitate, and restore them consistent with post-disaster community priorities and best practices and in compliance with appropriate environmental and historical preservation laws and executive orders.
- **On-Scene Security, Protection, and Law Enforcement:** Ensure a safe and secure environment through law enforcement and related security and protection operations for people and communities located within affected areas and also for response personnel engaged in lifesaving and life-sustaining operations.
- **Operational Coordination:** Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.
- **Operational Communication:** Ensure the capacity for timely communications in support of security, situational awareness, and operations, by any and all means available, among and between affected communities in the impact area and all response forces.
- **Planning:** Conduct a systematic process engaging the whole community as appropriate in the development of executable strategic, operational, and/or community-based approaches to meet defined objectives.
- **Public Health, Healthcare, and Emergency Medical Services:** Provide lifesaving medical treatment via emergency medical services and related operations and avoid additional disease and injury by providing targeted public health and medical support and products to all people in need within the affected area.
- **Public Information and Warning:** Deliver coordinated, prompt, reliable, and actionable information to the whole community through the use of clear, consistent, accessible, and culturally and linguistically appropriate methods to effectively relay information regarding any threat or hazard and, as appropriate, the actions being taken, and the assistance being made available.
- **Situational Awareness:** Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects, and the status of the response.

These core capabilities, when successfully demonstrated, meet the exercise objectives. The objectives for this exercise were as follows:

- **Objective 1:** Emergency Operations Management
- **Objective 2:** Exposure Control
- **Objective 3:** Alert and Notification
- **Objective 4:** Detect, Measure, Sample, Analyze, and Assess
- **Objective 5:** Operate

Section 3: Analysis of Capabilities

3.1 Exercise Evaluation and Results

This section contains the results and findings of the evaluation of all jurisdictions and functional entities that participated in the March 28, 2023, plume exposure pathway and re-entry, relocation, return, re-occupancy exercise and out of sequence activities conducted on March 7, 2023; March 22, 2023; and March 29, 2023.

Each jurisdiction and functional entity were evaluated based on the demonstration of objectives, core capabilities, and capability targets as delineated in the DHS/FEMA Radiological Emergency Preparedness Program Manual dated December 2019. Capability targets are listed by number and the demonstration status of those capability targets are indicated by using the following terms:

- **Met (M):** The jurisdiction or functional entity performed all activities under the objective/capability target to the level required per the work plan and/or the extent-of-play agreement, with no level 1 or level 2 findings evaluated under that objective/capability target during the current activity and no unresolved prior level 2 finding(s).
- **Level 1 Finding (L1):** An observed or identified inadequacy of organizational performance during an assessment activity that could cause a determination 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.
- **Level 2 Finding (L2):** An observed or identified inadequacy of organizational performance during an assessment activity that is not considered, by itself, to adversely impact public health and safety.
- **Plan Issue (P):** An observed or identified inadequacy in the offsite response organization's emergency plan/implementing procedures, rather than in that of the offsite response organization's performance.
- **Not Applicable (NA):** The objective/capability target does not apply to the jurisdiction.
- **Not Selected (NS):** For a justifiable reason, the jurisdiction or functional entity did not perform assessment activities under the objective/capability target as specified in the extent-of-play agreement.

Table 3.1.1 Summary of Exercise Evaluation - State of Illinois Out-of-Sequence Activities

SITE: Dresden Generating Station DATE: March 7, 2023 and March 29, 2023 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Illinois State Police - Troop 3 South Sub Post TAC/DCO Interview	MS-1 AdventHealth Hospital	MS-1 AdventHealth Transportation	Joint Information Center	Radiological Emergency Assessment Center
Objective 1: Emergency Operations Management Capability Targets					
1.1: Mobilization	NA	NA	NA	NA	NA
1.2: Direction and Control	NA	NA	NA	NA	NA
1.3: Protective Action Recommendations	NA	NA	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA	NA	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA	NA	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NA	NA	NA
Objective 2: Exposure Control Capability Targets					
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA	NA	NA	NA
2.2: Emergency Worker Exposure Control Management	M	M	M	NA	NA
Objective 3: Alert and Notification Capability Targets					
3.1: Communications	M	NA	NA	M	M
3.2: Alert and Notification of the Public	NA	NA	NA	NA	NA
3.3: Emergency Information and Instructions Public and News Media	NA	NA	NA	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets					
4.1: Field Monitoring Teams Management	NA	NA	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA	NA	NA
Objective 5: Operate Capability Targets					
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NA	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NA	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	M	M	NA	NA
5.4: Traffic and Access Control	M	NA	NA	NA	NA

Table 3.1.2 Summary of Exercise Evaluation – Will County Out-of-Sequence Activities

SITE: Dresden Generating Station DATE: March 22, 2023 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Elwood Community Consolidated School District 203 – Interview
Objective 1: Emergency Operations Management Capability Targets	
1.1: Mobilization	NA
1.2: Direction and Control	NA
1.3: Protective Action Recommendations	NA
1.4: Protective Action Decisions Plume Phase	NA
1.5: Protective Action Decision Implementation Plume Phase	M
1.6: Protective Action Decisions Post-Plume Phase	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA
Objective 2: Exposure Control Capability Targets	
2.1: Emergency Worker Exposure Control Decision-Making Process	NA
2.2: Emergency Worker Exposure Control Management	M
Objective 3: Alert and Notification Capability Targets	
3.1: Communications	M
3.2: Alert and Notification of the Public	NA
3.3: Emergency Information and Instructions Public and News Media	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets	
4.1: Field Monitoring Teams Management	NA
4.2: Plume Phase Measurements and Sampling	NA
4.3: Post-Plume Phase Measurements and Sampling	NA
4.4: Laboratory Operations	NA
4.5: Plume Phase Analysis and Dose Assessment	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA
Objective 5: Operate Capability Targets	
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA
5.4: Traffic and Access Control	NA

Table 3.1.3 Summary of Exercise Evaluation – Grundy County In-Sequence Activities

SITE: Dresden Generating Station DATE: March 28, 2023 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Initial Warning Point	Emergency Operations Center	Grundy County Sheriff Department in EOC	WCSJ Radio Station
Objective 1: Emergency Operations Management Capability Targets				
1.1: Mobilization	M	M	NA	NA
1.2: Direction and Control	NA	M	NA	NA
1.3: Protective Action Recommendations	NA	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	M	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	M	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NA	NA
Objective 2: Exposure Control Capability Targets				
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	M	NA	NA
2.2: Emergency Worker Exposure Control Management	NA	M	M	NA
Objective 3: Alert and Notification Capability Targets				
3.1: Communications	M	M	M	M
3.2: Alert and Notification of the Public	NA	M	NA	M
3.3: Emergency Information and Instructions Public and News Media	NA	M	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets				
4.1: Field Monitoring Teams Management	NA	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA	NA
Objective 5: Operate Capability Targets				
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NA	NA
5.4: Traffic and Access Control	NA	M	M	NA

Table 3.1.4 Summary of Exercise Evaluation – Grundy County Out-of-Sequence Activities

SITE: Dresden Generating Station DATE: March 29, 2023 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Morris Elementary School District # 101 – Interview	Morris Elementary School District # 54 – Interview
Objective 1: Emergency Operations Management Capability Targets		
1.1: Mobilization	NA	NA
1.2: Direction and Control	NA	NA
1.3: Protective Action Recommendations	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	M	M
1.6: Protective Action Decisions Post-Plume Phase	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA
Objective 2: Exposure Control Capability Targets		
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA
2.2: Emergency Worker Exposure Control Management	M	M
Objective 3: Alert and Notification Capability Targets		
3.1: Communications	M	M
3.2: Alert and Notification of the Public	NA	NA
3.3: Emergency Information and Instructions Public and News Media	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets		
4.1: Field Monitoring Teams Management	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA
4.4: Laboratory Operations	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA
Objective 5: Operate Capability Targets		
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA
5.4: Traffic and Access Control	NA	NA

Table 3.1.5 Summary of Exercise Evaluation - Kendall County In-Sequence Activities

SITE: Dresden Generating Station DATE: March 28, 2023 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Initial Warning Point	Emergency Operations Center	Kendall County Sheriff Department in EOC	WSPY Radio Station
Objective 1: Emergency Operations Management Capability Targets				
1.1: Mobilization	M	M	NA	NA
1.2: Direction and Control	NA	M	NA	NA
1.3: Protective Action Recommendations	NA	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	M	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	M	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NA	NA
Objective 2: Exposure Control Capability Targets				
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	M	NA	NA
2.2: Emergency Worker Exposure Control Management	NA	M	M	NA
Objective 3: Alert and Notification Capability Targets				
3.1: Communications	M	M	M	M
3.2: Alert and Notification of the Public	NA	M	NA	M
3.3: Emergency Information and Instructions Public and News Media	NA	M	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets				
4.1: Field Monitoring Teams Management	NA	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA	NA
Objective 5: Operate Capability Targets				
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NA	NA
5.4: Traffic and Access Control	NA	M	M	NA

Table 3.1.6 Summary of Exercise Evaluation - Kendall County Out-of-Sequence Activity

SITE: Dresden Generating Station DATE: March 28, 2023 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Kendall County (RRRR) Re-entry, Relocation, Return, and Re-occupancy
Objective 1: Emergency Operations Management Capability Targets	
1.1: Mobilization	NA
1.2: Direction and Control	NA
1.3: Protective Action Recommendations	NA
1.4: Protective Action Decisions Plume Phase	NA
1.5: Protective Action Decision Implementation Plume Phase	NA
1.6: Protective Action Decisions Post-Plume Phase	M
1.7: Protective Action Decision Implementation for the Post-Plume Phase	M
Objective 2: Exposure Control Capability Targets	
2.1: Emergency Worker Exposure Control Decision-Making Process	NA
2.2: Emergency Worker Exposure Control Management	NA
Objective 3: Alert and Notification Capability Targets	
3.1: Communications	NA
3.2: Alert and Notification of the Public	NA
3.3: Emergency Information and Instructions Public and News Media	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets	
4.1: Field Monitoring Teams Management	NA
4.2: Plume Phase Measurements and Sampling	NA
4.3: Post-Plume Phase Measurements and Sampling	NA
4.4: Laboratory Operations	NA
4.5: Plume Phase Analysis and Dose Assessment	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA
Objective 5: Operate Capability Targets	
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA
5.4: Traffic and Access Control	NA

3.2 Detailed Results of Exercise Evaluation

The Homeland Security Exercise and Evaluation Program methodology is an analytical process used to assess the demonstration of specific capabilities during an exercise. A capability provides a means to perform one or more capability targets under specified conditions and to specific performance standards. Core capabilities form the foundation of the DHS/FEMA Region 5 Radiological Emergency Preparedness Program evaluations. Each jurisdiction's standalone capability summaries are provided below.

3.2.1 State of Illinois Out-of-Sequence

3.2.1.1 Illinois State Police Troop 3, South Sub Post

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.1.2 Medical Services Drill - AdventHealth Bolingbrook - Hospital

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 5.3 Transportation and Treatment of Contaminated, Injured Individuals
Core Capabilities: Environmental Response/Health and Safety; Public Health, Healthcare, Emergency Medical Services; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.1.3 Medical Services Drill - AdventHealth Bolingbrook – Transportation

Capability Target: 2.2 Emergency Worker Exposure Control Management
Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the capability target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 5.3 Transportation and Treatment of Contaminated, Injured Individuals
Core Capabilities: Environmental Response/Health and Safety; Public Health, Healthcare, Emergency Medical Services; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.2 Will County Out-of-Sequence

3.2.2.1 Elwood Community Consolidated School District 203 – Interview

Capability Target: 1.5 Protective Action Decision Implementation for the Plume Phase
Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.1 Communications

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.3 Grundy County In-Sequence

3.2.3.1 Initial Warning Point

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.1 Communications

Core Capabilities: Operational Coordination; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.3.2 Emergency Operations Center

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 1.4 Protective Action Decision for Plume Phase

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situation Assessment; Critical Transportation; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 1.5 Protective Action Decision Implementation for the Plume Phase

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 2.1 Emergency Worker Exposure Control Decision-Making Process

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.1 Communications

Core Capabilities: Operational Communication; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.2 Alert and Notification of the Public

Core Capabilities: Public Information and Warning; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection and Law Enforcement; Operational Coordination; Planning; Situational Assessment

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.3.3 Sheriff's Department in EOC

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.3.4 WCMY/WCSJ Radio Station

Capability Target: 3.1 Communication

Core Capabilities: Operational Communication; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.2 Alert and Notification of the Public

Core Capabilities: Public Information and Warning; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.4 Grundy County Out-of-Sequence

3.2.4.1 Morris Community High School District #101 - Interview

Capability Target: 1.5 Protective Action Decision Implementation for the Plume Phase

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communication; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.4.2 Morris Community Elementary School District #54 - Interview

Capability Target: 1.5 Protective Action Decision Implementation for the Plume Phase

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.5 Kendall County In-Sequence

3.2.5.1 Initial Warning Point

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.1 Communications

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.5.2 Kendal County Emergency Operations Center

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 1.4 Protective Action Decisions for the Plume Phase

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 1.5 Protective Action Decisions Implementation for the Plume Phase

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 2.1 Emergency Worker Exposure Control Decision-Making Process

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.2 Communication

Core Capabilities: Public Information and Warning ; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning ; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement

Capability Target: 5.4 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning ; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement

3.2.5.3 Kendall County Sheriff's Department in EOC

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.1 Communications

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.5.4 WSPY Radio Station

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 3.2 Alert and Notification of the Public

Core Capabilities: Public Information and Warning; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

3.2.6 Kendall County Out-of Sequence

3.2.6.1 Re-entry, Relocation, Re-entry, Reoccupancy (RRRR)

Capability Target: 1.6 Protective Action Decision for the Post-Plume Phase

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Capability Target: 1.7 Protective Action Decision Implementation for the Post-Plume Phase

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety ; Critical Transportation; Health and Social Services; Housing Natural and Cultural Resources; Planning

In summary, the status of DHS/FEMA-evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the DHS/FEMA approved extent-of-play agreement.

Section 4: Conclusion

The U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) assesses offsite response organization preparedness on an ongoing basis which meets the intent of the 44 CFR § 350 planning standards and, through the assessment of selected core capabilities, the National Preparedness Goal. This report is used to document biennial demonstration-based assessment activities.

The analysis of capabilities in Section 3 described the State of Illinois, Grundy County, Kendall County, and Will County Emergency Planning Zones offsite response capabilities. Overall, the exercise was a success. The demonstration-based assessment activities evaluated by core capabilities, objectives, and capability targets were successfully demonstrated. All offsite response organizations demonstrated knowledge of their emergency response plans and procedures, and successfully demonstrated the ability to protect the health and safety of the public in the event of an incident involving the Dresden Generating Station.

Based on the results of this exercise, and the DHS/FEMA review of the 2022 Annual Letter of Certification submitted by the State of Illinois, the offsite radiological emergency response plans and preparedness of the State of Illinois and Grundy, Kendall, and Will Counties can be implemented. They are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public in the event of an emergency at the site. The Title 44 CFR § Part 350 approval of the offsite radiological emergency response plans and preparedness site-specific to the Dresden Generating Station granted on September 30, 1981, will remain in effect.

The Federal Emergency Management Agency wishes to acknowledge the efforts of the many individuals who participated and made this exercise a success.

Section 5: Improvement Plan

This section summarizes the results from the of the evaluation of all jurisdictions and functional entities that participated in the March 28, 2023, Dresden Generating Station Partial Participation, Plume Exposure Pathway, Re-entry, Return, Relocation, Reoccupancy, Radiological Emergency Preparedness Exercise to test the offsite emergency response capabilities of the State and local governments in the 10-mile Emergency Planning Zone surrounding the Dresden Generating Station, recommended corrective actions, and, a schedule of corrective actions for the identified primary responsible agency.

The U. S. Department of Homeland Security/Federal Emergency Management Agency evaluation team identified no Level 1 or Level 2 Findings and no Plan Issues for the State of Illinois, Grundy County, Kendall County, or Will County during the 2023 Dresden Generating Station Exercise.

Appendix A: Exercise Timeline

Emergency Classification Level or Event	All times are in Central Daylight Time		
	Time Utility Declared	Grundy County	Kendall County
Unusual Event (end of verification call for ECLs) ¹	0815	0902	0903
Alert	0835	0915	0914
Site Area Emergency	0957	1018	1023
General Emergency	1116	1147	1147
Release of Radioactive Material Started ²	1003	1003	1003
Release of Radioactive Material Terminated ³	N/A	N/A	N/A
Facility Declared Operational ⁴		0921	0900
Declaration of State/Local Emergency ⁵		0910	1209
Exercise Termination		1304	1304
Early Precautionary Action Decision: ⁶ <The State issued an order to evacuate state parks and hunting areas.>		N/A	N/A
Early Precautionary Action Decision: ⁶ <The State (County) issued a Livestock Advisory: All livestock are to be sheltered and placed on stored feed and water within the 10-mile EPZ.>		N/A	N/A
Early Precautionary Action Decision: ⁶ <The state issued Air, water and rail traffic restrictions within 5/10 miles of Dresden Generating Station.>		N/A	N/A
Early Precautionary Action Decision: ⁶ <Evacuate Schools and/or Special Populations.>		1147	N/A
General Information Message: ⁷ <Public advised of incident at Dresden Generating Station >		0916	1018
Siren Activation: ⁸		N/A	N/A
EAS Message: ⁹		N/A	N/A
Protective Action Recommendation ¹⁰ Evacuation of Sub-Areas: 1, 3, 4, 6, and 12		1147	1152
Protective Action Decision: ¹¹		1147	1152
Siren Activation: ⁸		1206	1206
EAS Message: ⁹		1212	1209
Protective Action Recommendation ¹⁰ Evacuation of Sub-Areas:		N/A	N/A
Protective Action Decision: ¹¹		N/A	N/A
Siren Activation: ⁸		N/A	N/A
EAS Message: ⁹		N/A	N/A
KI Administration Emergency Workers and Immobile Populations Decision (SEOC/REAC)/Implementation (UAC/Counties)		N/A	N/A

Appendix B: Participating Organizations

State of Illinois

Illinois Emergency Management Agency
Illinois State Police, Troop 3, South Sub-Post
AdventHealth Bolingbrook Hospital

Will County

Will County Emergency Management Agency
City of Joliet
Village of Channahon
City of Braidwood
Village of Elwood
Village of Shorewood
City of Wilmington
Elwood Community Consolidated School District #203
Advent Bolingbrook Hospital

Grundy County

Grundy County Emergency Management Agency
Grundy County Sheriff's Office
Grundy County Board Chairman
Grundy County Health Department
Grundy County Highway Department
Morris Fire Department
Coal City Fire Department
Regional Office of Education
WCMY/WCSJ Radio Station

Kendall County

Kendall County Emergency Management Agency
Kendall County Sheriff's Office
Kendall County Board Chairman
Kendall County Health Department
Kendall Fire Department
Kendall County Highway Department
Regional Office of Education
WSPY Radio Station

Private Organizations

Constellation
American Red Cross

Appendix C: Evaluation Team

Exercise Management	Name	Agency/ Organization
Chair, Regional Assistance Committee	Sean O’Leary	DHS/FEMA
Exercise Director	Stephen Tulley	DHS/FEMA
Assistant Exercise Director	Edward Golinski	DHS/FEMA
Assistant Exercise Director	Carl Bebrich	DHS/FEMA
Illinois Site Specialist	Curtis Williams	DHS/FEMA
Team Leader-State of Illinois	Curtis Williams	DHS/FEMA
Team Leader-Kendall County	Angela Cloutier	DHS/FEMA
Team Leader-Grundy County	David Persaud	DHS/FEMA
Contractor Evaluator Support-Regional Coordinator	John Wills	ICFI
Contractor Scenario Technical Reviewer	John Wills	ICFI

Evaluated Offsite Response Organizations/Locations	Evaluator	Agency/ Organization
State of Illinois		
Illinois -ISP Troop 3 South Sub-Post -DCO Brief	Todd Gemske	DHS/FEMA
Medical Services Drill AdventHealth Bolingbrook – Transportation	Angela Cloutier	DHS/FEMA
Medical Services Drill AdventHealth Bolingbrook – Hospital	David Persaud	DHS/FEMA
Grundy County		
Grundy County-Initial Warning Point	PJ Neid	ICFI
Grundy County-EOC	Steve Watts	ICFI
Grundy County-EOC	Mark Dalton	ICFI
Grundy County-EOC	Todd Trygier	DHS/FEMA
Grundy County Sheriff’s Department EOC-TAC/DCO Briefing	Gary Bolender	ICFI
WCSJ Radio Station	Bob Princic	ICFI
Morris Community High School District #101	Marynette Herndon	ICFI
Morris Elementary School District #54	Steve Watts	ICFI

Evaluated Offsite Response Organizations/Locations	Evaluator	Agency/ Organization
Will County		
Will County EOC- Observation	Todd Gemske	DHS/FEMA
Elwood Community Consolidated School District #203	Angela Cloutier	DHS/FEMA
Kendall County		
Kendall County-Initial Warning Point	Brett Beardsley	DHS/FEMA
Kendall County-EOC	Rosemary Samsel	ICFI
Kendall County-EOC	Brian Reinhart	DHS/FEMA
Kendall County-EOC	Todd Lawson	DHS/FEMA
Kendall County Sheriff's Department EOC-TAC/DCO Briefing	Brian Reinhart	DHS/FEMA
WSPY Radio Station	Brett Beardsley	DHS/FEMA
Re-entry, Relocation, Return, Reoccupancy (RRRR)	Brett Beardsley	DHS/FEMA

Appendix D: Acronyms and Abbreviations

ACRONYM	DESCRIPTION
10-mile, 50 mile <i>[for EPZ]</i>	10-mile EPZ, 50-mile EPZ
30 minute <i>[time interval]</i>	30-minute
air flow	airflow
Background, bkg.	background
calldown, call down	call-down Referring to list(s), process(es), etc.
CD V instrument formatting	CD V-715
cell phones	cellular phones
center line	centerline
chain of custody form[s]	chain-of-custody form[s] (use hyphens)
congregate care	Official term in Illinois is Congregate Care Center.
controller	Controller
county, counties, state	County, Counties, State (Capitalize the words State and County no matter where they are used in the narrative).
data base	database
decon, Decon	decontaminate Decontamination <i>[facility]</i> Unless quoted from a specific reference document.
deconning (deconing) people deconning (deconing) vehicles	decontamination <i>[of people or vehicles]</i>
direct reading dosimeter (DRD) direct-reading-dosimeter (DRD) Direct Reading Dosimeters (DRD) or reference to Self-Reading Dosimeters	Direct-Reading Dosimeter (DRD) Direct-Reading Dosimeters (DRDs)
DRD levels formatting	(0-200 mR) or (0-20 R)
drill or exercise	drill or exercise - Use as appropriate: drill <i>[for MS-1 Drills]</i> ; exercise <i>[for plume, hostile action based or ingestion pathway]</i>
EAS message number 3 EAS message No. 3 EAS message (No. 3)	EAS Message No. 3
evac, evacs, Evac, Evacs	evacuate or evacuee(s)
evaluator	Evaluator
extent of play agreement	extent-of-play agreement
facsimile, fax, telefax	facsimile
IL	Illinois
iosat, IOSAT	iOSAT
land line	landline (one word)
Dresden Generating Station	Dresden Generating Station

UNCLASSIFIED

ACRONYM	DESCRIPTION
manning	staffing
millirem/hr. mr/hr, rem/hr, r/hr	mR/hr, R/hr
Nars	NARS
numbers	for nine or less, write out the number (e.g., one, nine); for greater than nine, use digits, (e.g., 23). Write out the number if at beginning of a sentence.
On-site, Off-site	onsite, offsite (one word)
out of sequence	out-of-sequence (use hyphens)
predeployment	pre-deployment (use hyphen)
prepositioned, perpositing	pre-positioned, pre-positioning (use hyphen)
prescribed	pre-scripted (use hyphen)
Protective action guidelines	Protective Action Guidelines (PAGs)
Reception Center, Registration Center.	Official term in Illinois is Reception Center. Note: The upper-case form of Reception Center” is used only when a named center is identified - e.g., “Illinois Valley Community College Reception Center.”
release, release of radiation	release of radioactive material
re-demonstrated, redemonstration	redemonstrated, redemonstration
representative(s)	Representative(s) (e.g., Sheriff’s Representative)
sheriff’s office	Sheriff’s Department
STARCOM21, Starcom21, starcom	StarCom 21
State EOC	SEOC
Special News Bulletin, News Release	Media Release
Staging Area	Capitalize the first letter if referring to a specific location, e.g., Staging Area
... staff were [notified, etc.]	... staff was [notified, etc.] Note: staff is a singular noun no matter how many persons constitute the staff.
Subarea	Sub-Area (use hyphen and upper case)
superintendent	Superintendent
Traffic and Access Control Point	Traffic and Access Control Post (TAC Post)
Turnback, Turn back, Turn-back	turn-back (use hyphen)
tyvek suits	Tyvek suits
wheelchair	wheelchair wheelchair lift-capable [bus(es), van(s), etc.] wheelchair-bound [persons]

UNCLASSIFIED

ACRONYM	ACRONYM SPECIFIC TO ILLINOIS
AC	Alternating Current
AKA	Also Known As
AM	Amplitude Modulation
ANS	Alert & Notification System
ARC	American Red Cross
ARTCO	American River Transportation Company
BNSF	Burlington Northern Santa Fe
CAD	Computer Aided Dispatch
CMAS	Commercial Mobile Alert System
CMS	Central Management Services
COAD	Community Organizations Active in Disasters
CVEO	Commercial Vehicle Enforcement Officer
DCEO	Department of Commerce and Economic Opportunity
DCO	Dosimetry Control Officer
DHS	Department of Homeland Security
DLR	Dosimeter of Legal Record
DNS	Department of Nuclear Safety
DOH	Division of Highways
DRD	Direct Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Alert System
EHTR	acronym used by IDOT in the plan, but couldn't find the meaning
EM	Emergency Management
EMA	Emergency Management Agency
EMAC	Emergency Management Assistance Compact
EMNET	brand name of proprietary equipment
EMS	Emergency Management System
EOC	Emergency Operations Center
EOD	Explosive Ordnance Disposal
EOF	Emergency Operations Facility
EONS	Electronic Offsite Notification System
EOP	Emergency Operations Plan
EP	Emergency Preparedness
EPIP	Emergency Plan Implementing Procedure
EPZ	Emergency Planning Zone
ESDA	Emergency Service Disaster Agency
ESMARN	Emergency Services Mutual Aid Radio Network
ETA	Estimated Time of Arrival
FEMA	Federal Emergency Management Agency
FM	Frequency Modulation
GE	General Emergency
GIS	Geographic Information System

UNCLASSIFIED

HAB	Hostile Action Based
HVAC	Heating Ventilation and Air Conditioning
IAP	Incident Action Plan
IC	Incident Commander
ICC	Illinois Commerce Commission
ICP	Incident Command Post
ICS	Incident Command System
IDNR	Illinois Department of Natural Resources
IDOA	Illinois Department of Agriculture
IDOC	Illinois Department of Corrections
IDOT	Illinois Department of Transportation
IDPH	Illinois Department of Public Health
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
IESMA	Illinois Emergency Services Management Association
ILCS	Illinois Compiled Statutes
ILEAS	Illinois Law Enforcement Alarm System
ILNG	Illinois National Guard
ING	Illinois National Guard
IPAWS	Integrated Public Alert & Warning System
IPRA	Illinois Plan for Radiological Accidents
IREACH	Illinois Radio Emergency Assistance Channel
ISP	Illinois State Police
ISPERN	Illinois State Police Emergency Radio Network
IT	Information Technology
ITECS	Illinois Transportable Emergency Communications System
ITTF	Illinois Terrorism Task Force
JIC	Joint Information Center
KI	Potassium Iodide
LEADS	Law Enforcement Agencies Data System
LLC	Limited Liability Corporation
LLE	Local Law Enforcement
LNO	Liaison Officer
LOA	Letter of Agreement
MABAS	Mutual Aid Box Alarm System
MERCI	Medical Emergency Communication of Illinois
MFF	Mobile Field Force
MHz	Megahertz, MHZ
MOU	Memorandum of Understanding
MVK	Mazon-Verona-Kinsman
NARS	Nuclear Accident Reporting System
NIMS	National Incident Management System
NWS	National Weather Service

UNCLASSIFIED

OIC	Officer-in-Charge
OLE	Office of Law Enforcement
ORO	Offsite Response Organization
OSFM	Office of State Fire Marshal
PAR	Protection Action Recommendation
PIO	Public Information Officer
PSAP	Public Safety Answering Point, the plan has service vice safety
RACES	Radio Amateur Civil Emergency Service
REAC	Radiological Emergency Assessment Center
REM	Radiation Equivalent Man
REP	Radiological Emergency Preparedness
ROE	Regional Office of Education
RRG	Radiological Response Group
SAE	Site Area Emergency
SCC	Springfield Communication Center
SEOC	State Emergency Operations Center
SOP	Standard Operating Procedure
SRT	Special Response Team
STIC	Statewide Terrorism Intelligence Center
SWAT	Special Weapons and Tactics
SWMDT	Statewide Weapons of Mass Destruction Team
TAC	Traffic and Access Control
TICP	Tactical Interoperable Communications Plan
UAC	Unified Area Command
UCP	Unified Command Post
UE	Unusual Event
UHF	Ultra-High Frequency
USEPA	United States Environmental Protection Agency
VCOM	Vermillion Valley Regional Emergency Communications Joint Authority
VCOMM	misspelled, should be only one M
VHF	Very High Frequency
VOAD	Voluntary Organizations Active in Disasters

Appendix E: Onsite/Offsite Scenario Timeline

- Exercise Timeline
- Exercise vs. Clock Time
- Narrative Summary
- Summary of Expected EALs and PARs
- Meteorology
- Release Information / Dose Projections

EXERCISE TIMELINE (March 28, 2023)

Unit 2 Initial Conditions		Unit 3 Initial Conditions
<ul style="list-style-type: none"> ▪ Unit 2 at 975 MWe. ▪ Time to Boil – 70 hours ▪ 493 days online – Online Risk GREEN <ul style="list-style-type: none"> ○ Cask Risk – YELLOW ▪ Equipment OOS – 2/3 B Clean Demin Pump ▪ Protected Pathway – 2/3 A Clean Demin Pump ▪ Major evolutions – <ul style="list-style-type: none"> ○ U2 Dry Cask campaign ○ Turbine Weeklies (afternoons) ○ Fire Loop flushes per DFPS 4125-01 		<ul style="list-style-type: none"> ▪ Unit 3 is at 974 Mwe ▪ Time to Boil – 45 hours ▪ 130 days online – Online Risk GREEN ▪ Equipment OOS – U3 SAC, 2/3 B Clean Demin Pump ▪ Protected Pathway – – 2/3 A Clean Demin Pump ▪ Major evolutions scheduled – <ul style="list-style-type: none"> ○ Turbine Weeklies (afternoons) ○ Fire Loop flushes per DFPS 4125-01
T=0	0755	Start Scenario Wind direction – from 150 degrees, 4 mph, Stability Class D

T+10	0805	<p>UNUSUAL EVENT (RU2)</p> <p>(0800) Cask operations in progress. (CM-2)</p> <ul style="list-style-type: none"> ▪ Dry Cask is dropped into pool when crane trunnion lifting lug fails and releases Cask. ▪ (0803) Unplanned loss of water level above irradiated fuel is observed. <p>Emergency Action Level (EAL):</p> <p>(0805) a. UNPLANNED water level drop in the REFUELING PATHWAY as indicated by ANY of the following:</p> <ul style="list-style-type: none"> ▪ (0805) Spent Fuel Pool water level < 19 ft. above the fuel (< 33 ft. 9 in. indicated level). <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> ▪ Indication or report of a drop in water level in the REFUELING PATHWAY. <p style="text-align: center;">AND</p> <p>(0805) b. UNPLANNED Area Radiation Monitor reading rise on ANY radiation monitors in Table R1. (Refuel Floor High Range ARM Station #2 or Fuel Pool Radiation Monitor)(T=0 for RU2)</p> <ul style="list-style-type: none"> ▪ SM may declare Unusual Event due to lowering SFP level and ARM level rising ▪ ERO may be activated, OSC/TSC/EOF should be staffed within 60 minutes. Command and Control transfer occurs ▪ Team will enter DOA 0040-02 for localized flooding in the plant and DEOP 0300-01 based on high ARM readings. SBGT will autostart on high area rads. ▪ Team will enter TSG-3 to add water to the spent fuel pool. <ul style="list-style-type: none"> ○ The 2-1901-14, U2 COND XFR WTR SUPPLY VLV FOR MU TO SKIMMER SURGE TKS will spin freely and will not be available to open. ○ The 2/3-1901-69, U2 & U3 FUEL POOL CLG SYSTEMS XTIE VLV handwheel will break off if attempted to open and makeup from the U3 FPC will be unavailable. ○ The team will add make-up using fire water, condensate, and clean demin which will slow the loss of level, but it will still not be enough.
------	------	---

T+25	0820	Equipment Malfunctions <ol style="list-style-type: none"> (0820) 2B Fuel Pool Pump trips when the breaker trips from overcurrent <ul style="list-style-type: none"> EO Report EM Report Fuel Pool level continues to drop (0825) 2A Fuel Pool Pump will not start <ul style="list-style-type: none"> Crew will enter DOA 1900-01 for loss of fuel pool cooling. EM check 2B FP pump breaker for issues EO check 2B FP pump and motor EO / MM check 2A FP pump
T+30	0825	Equipment Malfunctions 2B Recirc Pump trip <ul style="list-style-type: none"> The crew will perform an emergency power reduction per DOA 0202-01. Crew will investigate loss of 2B Recirc Pump
T+35	0830	ALERT RA2- Significant lowering of water level above, or damage to, irradiated fuel. Emergency Action Level (EAL): (0830) 3. Lowering of spent fuel pool level to 10.20 ft. as indicated on 2-1901-121A(B). (T=0 for RA2) <ul style="list-style-type: none"> Area Rad Monitors will rise above 3000 mrem/hr.
T+60	0855	Reactor SCRAM 2A Recirc Pump Trips <ul style="list-style-type: none"> Crew will manually SCRAM the Reactor, all rods will insert. Crew will take actions to cool down.
T+80	0915	Equipment Malfunction The 2/3 A Clean Demin Pump will trip due to overcurrent on the breaker. <ul style="list-style-type: none"> EMD should troubleshoot the breaker and it will need replacement.

T+108	0943	<p>Equipment Malfunction The Clean Demin Pump trip will cause the level to lower to a point where the Chimney Effluents will rise, indicating a release in progress.</p> <p>Radioactive Release in Progress The Spent Fuel Pool level has lowered enough to allow a low-level release to occur</p> <ul style="list-style-type: none"> • URI Path BB - <Spent Fuel><Under Water><Reactor Building><SBGT><Chimney>< Env> <p>Peak Release – 3.46E+03 uCi/s @ 1015 Wind direction – from 150 degrees, 4 mph, Stability Class D</p>
T+110	0945	<p>SITE AREA EMERGENCY, RS2 – Spent fuel pool level at 0.60 ft. as indicated on 2(3)-1901-121A(B)</p> <p>Emergency Action Level (EAL): (0945) Lowering of spent fuel pool level to 0.60 ft. as indicated on 2-1901-121A(B). (T=0 for RS2)</p> <ul style="list-style-type: none"> ▪ Assembly and Accountability should be simulated. ▪ Team will make NARs/ENS Notifications. ▪ Will need OSC teams to start water addition ▪ Let initial teams succeed in keeping SFP level just above 0.60 ft with the DFP and covering the hole with debris and/or materials placed by the maintenance teams.
T+175	1050	<p>GENERAL EMERGENCY, RG2 – Spent fuel pool level cannot be restored to at least 0.60 ft. as indicated on 2-1901-121A(B) for 60 minutes or longer.</p> <p>Emergency Action Levels (EAL): Note: The Emergency Director should declare the General Emergency promptly upon determining that the applicable time has been exceeded or will likely be exceeded.</p> <p>Spent fuel pool level cannot be restored to at least 0.60 ft. as indicated on 2-1901-121A(B) for 60 minutes or longer. (T=0 for GENERAL EMERGENCY is when level reaches 0.60 feet and between 0-60 minutes based on Shift Emergency Director discretion.)</p> <ul style="list-style-type: none"> ▪ TSC should declare GENERAL EMERGENCY (RG2) when the DFP trips on low coolant and level drops below 0.60 feet for greater than 60 minutes. U1 DFP cranks but does not autostart due to a plugged fuel filter. ▪ If the Team attempts to open the 2-3906, SW SUPPLY TO FIRE PROTECTION, to restore fire header pressure, the valve will be seized closed. ▪ Team will make NARs/ENS Notifications. ▪ PARs – Evacuate Sub Areas IL-1,3,4,12

	>1150	Damage Mitigation <ul style="list-style-type: none"> ▪ The maintenance teams will be successful in isolating most of the leakage, replacing the clean demin pump breaker, adding coolant to the 2/3 DFP to allow restarting it, and/or changing the U1 DFP fuel filter and restarting it. They will also be successful in unseizing the 2-3906. ▪ SFP level will slowly increase ~0.65ft. @1155 <ul style="list-style-type: none"> ○ ~1.3ft. @ 1205 ○ ~3 ft. @ 1235
T=305	1230	Exercise Termination

Appendix F: Extent-of-Play Agreement



Nuclear Power Plant Exercise

Dresden Generating Station

Radiological Emergency Preparedness (REP) Program

Extent-of-Play Agreement for State of Illinois

Exercise Date: March 28, 2023

Section 1: Exercise Overview

Overarching Purpose

The purpose of this extent of play agreement (EOP) identifies the conditions that will be used to conduct, control and evaluate the 2023 Dresden Generating Station Evaluated Exercise, as agreed to by the offsite response organizations and Federal Emergency Management Agency (FEMA) Region 5, Radiological Assistance Committee (RAC) Chair.

The extent-of-play agreement is negotiated during the exercise planning process and documents deviations from activities as described in plans and procedures for exercise demonstration purposes. The extent-of-play agreement identifies the capability targets that will be evaluated during the exercise, including any exceptions, as well as the entities responsible for demonstrating the capability targets.

Scope

The exercise has both In-Sequence and Out-of-Sequence demonstration activities. The eight-year exercise cycle for Grundy & Kendall Counties began in 2021 and Will County in 2022.

In-Sequence activities will occur during the morning and potentially early afternoon hours of March 28th, 2023, from approximately 0800-1300 Central Daylight Time (CDT). Grundy County and Kendall County will fully participate in this exercise, Will County will participate to the level necessary to support exercise play, however Will County will not be evaluated. The State of Illinois (except for the Illinois State Police Troop 3, South Sub-Post (Former District 5) TAC/DCO evaluation) will not be evaluated but will participate in a manner sufficient to support the county-level demonstrations described in this EOP.

In-Sequence activities will be conducted at the following locations:

- County Initial Warning Point (Grundy County Consolidated Dispatch Center in Grundy County and Kendall County KenCom Center)
- Emergency Operations Center [Grundy County EOC and Kendall County EOC. Will County EOC (Unevaluated)]
- Unevaluated but supporting State Facilities and Personnel include: State Operations [formerly Communications] Center, State Emergency Operations Center (SEOC) SIMCELL, Radiological Emergency Assessment Center (REAC).

Out of Sequence activities will be managed by the State Controller at each field location and will be run independently. All demonstrations will commence promptly and, barring any complications, not continue past the end time. (Also See Table – 1)

Out of Sequence activities will be conducted at the following locations:

- **Re-entry, Relocation, Return and Re-occupancy (RRRR)** will be performed in the Kendall County EOC immediately following the conclusion of “plume phase” activities on March 28th, 2023.
- **Illinois State Police, Troop 3, South Sub-Post (Former District 5)** (Lockport) Traffic & Access Control and Dosimetry Control Officer (TAC/DCO) evaluation. Tuesday, March 28th, 2023 at 2:30 pm (confirmed)
- School Evacuation and Sheltering Evaluations at: **Morris Community High School District #101** (Grundy Co.) on Wednesday, March 29th at 9:00 am (confirmed), **Morris Elementary School District #54** (Grundy Co.) on Wednesday, March 29th at 11:30 am (confirmed), and **Elwood Community Consolidated School District #203** (Will Co.) on Wednesday, March 22nd at **2:00 PM** (confirmed)

Demonstration Windows

Demonstration windows are those periods of time designated in the exercise during which specified demonstrations will be accomplished.

The schedule of activities including OROs, locations, dates, and times for In-Sequence, Field and Out-of-Sequence Play activities are summarized in Table 1 below. Additional information is provided in Section 4.

Table 1 – Schedule of Activities

Activity	ORO/Location	Date/Time
Controller/Evaluator meeting	Holiday Inn Express / Ottawa (IL)	Monday, March 27th 2:00 PM – 3:00 PM
Initial Notification (911, EONS and NARS)	Grundy County Consolidated Dispatch Center Kendall County KenCom IEMA OPS Center	Tuesday, March 27th 8:00 AM – 11:00 AM
EOC Operations	Grundy County EMA Kendall County EMA Will County EMA (non-evaluated; but FEMA Observer requested) State Emergency Operations Center	Tuesday, March 28, 2023 8:00 AM – 1:00 PM SIMCELL located at SEOC
School / Transportation Interview	Morris Community High School District #101 Morris Elementary School District #54 Elwood Community Consolidated School District #203	Wednesday, March 29th 9:00-10:15 AM (confirmed) Wednesday, March 29th 11:00 AM-12:15 PM (confirmed) Wednesday, March 22 nd 2:00 PM (confirmed)
Emergency Worker Monitoring/Decontamination Center (EWDC)	n/a	n/a
Reception Center	n/a	n/a
Congregate Care Center	n/a	n/a

Activity	ORO/Location	Date/Time
Transportation and Treatment of Contaminated Injured Individuals	Advent Bolingbrook (formerly AMITA) Medical Center	Wednesday, March 7, 2023 1:00 PM – 3:00 PM
Traffic/Access Control (TACP)	Kendall County Sheriff's Office (@Kendall Co EOC)	Tuesday, March 28, 2023 9:00 AM – 11:30 AM
	IL State Police Troop 3, South Sub-Post (Former District 5) (@ HQ)	Tuesday, March 28, 2023 2:30 PM – 3:30 PM (D5)

Re-demonstration

All activities will be demonstrated fully in accordance with respective plans and procedures as they would be in an actual emergency. This extent-of-play agreement is written by exception. If an exception is not included below then the activity will be demonstrated as described in plans and/or procedures.

2019 Capability Targets that will be demonstrated during this exercise and may be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader: 1.1, 1.5, 2.1, 2.2, 3.1, 5.1, 5.2, 5.4.

2019 Capability Targets that will be demonstrated during this exercise and may be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader OR may be re-demonstrated as approved on a case-by-case basis by the Chairperson, FEMA R5 Regional Assistance Committee: 1.2 , 3.3

2019 Capability Targets that will be demonstrated during this exercise and may be re-demonstrated as approved on a case-by-case basis by the Chairperson, FEMA R5 Regional Assistance Committee: 1.4, 3.2, 5.4

Re-demonstration will be negotiated between the Lead Controller, Jurisdiction FEMA Team Leader, and the Offsite Response Organization (ORO) involved, and will be conducted only when the corrective action would not interfere with the flow of the exercise. Refresher training may be provided by ORO personnel and/or the Controller.

It is permissible to extend the evaluation time to accommodate the re-demonstration. Issues resolved as the result of a re-demonstration will be noted as Findings resolved through re-demonstration.

Activities, Core Capabilities, and Exercise Objectives

Activity	Core Capability	Exercise Objective
Initial Notification Point	Operational Communications	Objective 1: Emergency Operations Management Objective 3: Alert and Notification
State/County Emergency Operations Centers	Operational Coordination Public Information and Warning	Objective 1: Emergency Operations Management Objective 2: Exposure Control Objective 3: Alert and Notification
Communications Demonstration	Public Information and Warning	Objective 3: Alert and Notification
School/Transportation Interview	Operational Communications Operational Coordination Critical Transportation	Objective 1: Emergency Operations Management Objective 2: Exposure Control Objective 5: Operate
Emergency Worker Monitoring/Decontamination	Operational Coordination Environmental Response/Health and Safety	Objective 1: Emergency Operations Management Objective 2: Exposure Control Objective 5: Operate
Reception Center (NA)	Operational Coordination Environmental Response/Health and Safety Mass Care	Objective 5: Operate
Congregate Care Center (NA)	Mass Care	Objective 5: Operate
Traffic and Access Control Point	Access Control Operational Coordination Critical Transportation	Objective 2: Exposure Control Objective 5: Operate

Section 2: Extent-of-Play Agreement

Standards & References

Illinois County OROs will use the following references, plans, and procedures during exercise play:

Illinois Plan for Radiological Accidents, Dresden Generating Station Plan, revised TBD.

DHS/FEMA REP Program Manual December 2019.

NUREG 0654/FEMA REP 1 Rev. 2., revised 2017.

Illinois Plan for Radiological Accidents, Core Plan, revised December 2021

IEMA DNS Standard Operating Procedures for Field Teams

Exercise Participants

State, County and local Offsite Response Organizations (ORO) that will participate in this exercise may include but are not limited to the following:

Grundy County Emergency Management Agency

Grundy County Sheriff's Office

Grundy County Health Department

Grundy County Board

Grundy County Highway Department

Kendall County Emergency Management Agency

Kendall County Emergency Management Agency

Kendall County Sheriff's Office

Kendall County Health Department

Kendall County Board

Kendall County Highway Department

Will County Emergency Management Agency

City of Joliet, Village of Channahon, City of Braidwood, Village of Elwood, Village of Shorewood and City of
Wilmington

Illinois Emergency Management Agency

Illinois State Police, Troop 3, South Sub-Post (Former District 5) (Lockport, IL)

WCMY/WCSJ Radio

WSPY Radio

American Red Cross

Section 3: Objectives and Exceptions

Objective 1: Emergency Operations Management

Capability Target 1.1: Mobilization Individuals with roles in support of emergency operations are identified, alerted, and mobilized in a timely manner.

Intent: The capability to alert, notify, and mobilize OROs to staff facilities in support of emergency operations.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.1, A.1.a, A.1.b, A.3, A.4, A.5, C.1, C.2, C.2.a, C.2.b, C.3, E.1, E.1.a, E.3, F.1.c, H.6, and O.1)

Core Capabilities: Operational Coordination

Exercise Parameters: Grundy County intends to fully activate the County Emergency Operations Center (EOC) in Morris, IL. and Kendall County intends to partially activate the County Emergency Operations Center (EOC) in Yorkville, IL. Will County intends to partially activate to support exercise play, but will not be evaluated. The Counties will implement notification procedures as defined in Plans and SOGs. Players who do not normally work in those emergency facilities will be pre-staged outside the venue. **County will make declaration of operational status when appropriate.**

Assessment	Venue	Extent of Play
Alert, notify, and mobilize key personnel, to include a 24-hour staffing roster, and activate facilities in a timely manner.	Grundy County EOC, Kendall County EOC, Grundy County Consolidated Dispatch Center (GCCDC), and KenCom (SEOC may preposition)	Per Plans and Procedures Exception: Players who do not normally work in those emergency facilities will be pre-staged outside the venue and will be activated using related county notification procedures.
Receive and verify notifications.	Grundy County EOC, Kendall County EOC, GCCDC and KenCom	No Exceptions
Identify and request additional resources, as needed.	Grundy and Kendall County EOCs, SEOC SIMCELL (unevaluated)	Exception: Agencies outside this EOP may be requested, but response will be simulated.
Determine a facility is operational.	Grundy and Kendall County EOCs	

Capability Target 1.2: Direction and Control - Individuals in leadership roles provide direction and control to the portion of the overall response effort for which they are responsible.

Intent: The capability to provide overall direction and control of response efforts, commensurate with the responsibilities of leadership, as detailed in plans/procedures.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.1, A.1.a, A.1.b, A.1.c, A.2, A.3, A.5, C.2, C.2.a, C.2.b, C.3, D.4, E.1, H.6, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

Exercise Parameters: Decision Making will be demonstrated at the **Grundy County EOC and Kendall County EOC.**

Assessment	Venue	Extent of Play
Support protective action decision-making.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	No exceptions State: will issue a PAR via NARS to support county exercise play
Conduct briefings in a timely manner.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	No Exceptions
Maintain Situational Awareness	All Venues	No Exceptions
Coordinate response activities with other organizations.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	No Exceptions
Obtain resources to support emergency operations	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	Exceptions: by discussion if not already available at venue.
Provide and maintain adequate facilities and equipment to support the emergency response.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	No Exceptions

Capability Target 1.3: Protective Action Recommendations– Appropriate PARs are selected based on available information and other factors.

Intent: *The capability to use dose assessment and field data, compare this data to the PAGs, and choose among a range of protective actions those most appropriate in a given emergency.*

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (D.4, J.7, J.8, J.8.b, J.9, and O.1)

Core Capabilities: *Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning*

Exercise Parameters: *Radiological PARs may be demonstrated and discussed at the Radiological Emergency Assessment Center (REAC) and the State Emergency Operations Center (SEOC) and may also be discussed in Grundy County EOC & Kendall County EOC. The State of Illinois will not be evaluated, but will fully support exercise play in the evaluated counties.*

Capability Target 1.4: Protective Action Decisions for the Plume Phase –Appropriate PADs are based on available information for the plume phase.

Intent: The capability to utilize appropriate factors and necessary coordination in the decision-making process used to make PADs for the public.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (D.1.b, D.4, J.6, J.7, J.8, J.8.b, J.10, J.10.a, J.10.b, J.11.c-g, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning.

Exercise Parameters: The State of Illinois will make Protective Action Recommendations (PAR) to Kendall, Grundy and Will county officials in the county EOCs. County officials will make the final Protective Action Decisions (PAD) regarding what protective actions will be recommended to the public of Kendall and Grundy counties (Will County unevaluated).

Assessment	Venue	Extent of Play
Coordinate and make PADs for members of the general public.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	No Exceptions
Coordinate and make PADs for those with access and functional needs.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	No specific PADs for access and functional needs
Coordinate and make PADs for students at schools.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	Coordinated with the Grundy/Kendall Regional Office of Education (ROE) Liaison located at the Grundy County EOC
Coordinate and make subsequent or alternate PADs.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	Only as needed if not directly driven by Utility-driven scenario.
Coordinate and make decisions on the administration of KI (where applicable) for the public and institutionalized members of the population.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated) State EOC (Unevaluated) REAC (Unevaluated)	Exception: State Function for decision, County will coordinate, if applicable. IL Emergency Management Agency is responsible for the decision to ingest KI. State of IL doesn't recommend KI use for general public; counties responsible for coordination of institutionalized individuals in EPZ

Capability Target 1.5: Protective Action Decision Implementation for the Plume Phase –Implement decisions for those populations and areas subject to plume phase protective actions.

Intent: The capability to implement precautionary protective action and/or PADs, including evacuation and/or sheltering, for all populations within the plume and ingestion exposure pathway EPZs. The populations include those with access and functional needs, students, and institutionalized individuals.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.4, C.2.a, G.1, J.11, J.11.a, J.11.b, J.11.c, J.11.e, J.11.g, and O.1)

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

Exercise Parameters: No actual evacuations or demonstrations of shelter-in-place will occur. Phone calls and public notifications will be simulated. All transportation points of review will be demonstrated by interview/discussion. No actual transportation will occur. School protective measures are by Regional Office of Education, represented during the exercise in Grundy County EOC, and communications with school districts will be simulated.

Assessment	Venue	Extent of Play
Implement PADs, ensuring communication and coordination with all appropriate jurisdictions.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	See Exercise Parameters
Assist those with access and functional needs during the implementation of PADs.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	See Exercise Parameters
Communicate, coordinate, and implement protective actions for schools.	Grundy County EOC Morris HSD #101 Morris ESD #54 Elwood CCSD #203	See Exercise Parameters (Out of Sequence Time/Date TBD) NOTE: Both Grundy and Will Counties will be evaluated for this Capability Target
Communicate with transportation officials.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	See Exercise Parameters
Identify evacuation routes for the general public.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	See Exercise Parameters

Capability Target 1.6: Protective Action Decisions for the Post-Plume –Appropriate PADs are based on available information for the post-plume phase.

Intent: The capability to assess the radiological consequences for the ingestion exposure pathway and post-plume phase, relate them to the appropriate PAGs, and make and coordinate timely, appropriate PADs to mitigate exposure.

Planning references: NUREG-0654/FEMA-REP-1, Rev. 2 (J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Housing; Planning

Exercise Parameters: This Capability Target (CT) will be addressed (only) in Kendall County as an out-of-sequence facilitated discussion in the Kendall County EOC, immediately following the conclusion of the “plume phase” exercise demonstration. The state exercise controller will provide a presentation with simulated plume mapping, questions and subject areas to be addressed by Kendall County during the discussion. The discussion will not be specifically “technical” in nature, but will primarily focus on authorities, partnerships and actions necessary in the post-plume tasks of **Re-entry, Re-location, Return and Re-occupancy**.

NOTE: Grundy and Will counties successfully demonstrated this CT during the 2022 Braidwood Exercise.

Capability Target 1.7: Protective Action Decision Implementation for the Post-Plume Phase - Implement decisions for those populations and areas subject to post-plume phase protective actions.

Intent: The capability to implement and coordinate PADs to mitigate exposure and address long-term radiological consequences.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2, J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, and O.1)

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

Exercise Parameters: This Capability Target (CT) will be addressed (only) in Kendall County as an out-of-sequence facilitated discussion in the Kendall County EOC, immediately following the conclusion of the “plume phase” exercise demonstration. The state exercise controller will provide a presentation with simulated plume mapping, questions and subject areas to be addressed by Kendall County during the discussion. The discussion will not be specifically “technical” in nature, but will primarily focus on authorities, partnerships and actions necessary in the post-plume tasks of **Re-entry, Re-location, Return and Re-occupancy**.

NOTE: Grundy and Will counties successfully demonstrated this CT during the 2022 Braidwood Exercise.

Objective 2: Exposure Control

Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process - A decision-making process involving consideration of appropriate factors and necessary coordination is used to ensure that an exposure control system is in place for emergency workers and includes the use of radioprotective drugs and procedures to authorize emergency exposures in excess of the PAGs.

Intent The capability to assess and control the radiation exposure and dose received by emergency workers and utilize a decision-making chain to authorize emergency worker exposure limits to be exceeded for specific missions.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.c, H.11, K.2, K.2.b, K.3, K.3.a, M.1.b, M.8, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

Exercise Parameters: Exposure control will be demonstrated at the out-of-sequence venues where applicable and may be demonstrated by interview/discussion.

Assessment	Venue	Extent of Play
Control emergency workers' exposure and dose, including offsite workers performing duties onsite.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated)	Will be limited to offsite workers performing duties offsite. Onsite exposure control will not be evaluated.
Maintain record of dose as a result of exposure.	Grundy County EOC Kendall County EOC Will County EOC (Unevaluated) IL State Police, Troop 3, South Sub-Post (Former District 5)	Exception: will be discussed with participants, but will only be simulated documenting on dosimetry record cards during TAC/DCO demonstrations
Authorize exposures and dose in excess of identified limits.	n/a	Will not be demonstrated during this exercise
Process for considering occupational exposures and to authorize individuals to receive doses in excess of occupational dose limits.	n/a	Will not be demonstrated during this exercise
Determine a correction factor for DRD-based isotopic release mixture	REAC	Will provide information to the extent necessary to support county-level exercise play

Assessment	Venue	Extent of Play
Control exposure and dose for temporary reentry of emergency workers, or members of the public, to restricted areas.	Kendall County EOC	Will be demonstrated as a discussion-based session out of sequence after the conclusion of evaluated “plume phase” activities. The state controller will provide additional scenarios and/or information to support county discussion.
Determine the need to authorize radioprotective drugs using projected thyroid doses and field measurements. Projections are compared to previously established PAGs.	NA	State Function; not evaluated during this exercise
Adequately protect members of the public from radiological exposure and control dose for those who are authorized to temporarily reenter a restricted area.	Kendall County EOC	Will be demonstrated as a discussion-based session out of sequence after the conclusion of evaluated “plume phase” activities. The state controller will provide additional scenarios and/or information to support county discussion.

Capability Target 2.2: Emergency Worker Exposure Control Management - Emergency workers manage radiological exposure and dose in accordance with the plans/procedures.

Intent: The capability of emergency workers to manage dose and exposure, use equipment (e.g., dosimetry, radio protective drugs), and identify procedures to monitor their exposure and dose, including following procedures to obtain authorization to receive emergency exposures in excess of the PAGs.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.c, H.11, H.11.b, K.2.b, K.3, K.3.a, M.1.b, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

Exercise Parameters: DRDs, PRDs and KI for emergency workers are pre-distributed and described in the Grundy, Kendall and Will (unevaluated) Counties during Illinois Plan for Radiological Accidents (IPRA) and SOGs. In the event that the use of KI is recommended to emergency workers, players will simulate taking KI.

Assessment	Venue	Extent of Play
Maintain an appropriate inventory of DRDs that are leak-tested or current in calibration.	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small> <u>Out of Sequence:</u> IL State Police, Troop 3, South Sub-Post (Former District 5) Morris HSD #101 Morris ESD #54 Elwood CCSD #203	In-service dosimetry not calibrated in field; annual leak test records will be made available Wednesday, March 22nd 10:30 AM (confirmed)
Maintain an appropriate inventory of dosimetry.	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small> <u>Out of Sequence:</u> IL State Police, Troop 3, South Sub-Post (Former District 5) Morris HSD #101 Morris ESD #54 Elwood CCSD #203	In-service dosimetry not calibrated in field; annual leak test records will be made available Wednesday, March 22nd 10:30 AM (confirmed)
Retain an adequate supply of radioprotective drugs.	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small> <u>Out of Sequence:</u> IL State Police, Troop 3, South Sub-Post (Former District 5) Morris HSD #101 Morris ESD #54 Elwood CCSD #203	KI is supplied by state but issued to each participating entity. KI recordkeeping and reference materials will be made available at each participating location. Wednesday, March 22nd 10:30 AM (confirmed)
Adequately distribute appropriate Emergency Worker (EW) Dosimetry Kits (i.e., DRDs, DLRs, KI and Record Card)	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small> <u>Out of Sequence:</u> IL State Police, Troop 3, South Sub-Post (Former District 5) Morris HSD #101	No Exception

Assessment	Venue	Extent of Play
	Morris ESD #54 Elwood CCSD #203	Wednesday, March 22nd 10:30 AM (confirmed)
Adequately distribute radioprotective drugs to emergency workers.	All Venues	Exception: Will County, optional/unevaluated
Record and report exposures in the field.	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small> <u>Out of Sequence:</u> IL State Police, Troop 3, South Sub-Post (Former District 5) Morris HSD #101 Morris ESD #54 Elwood CCSD #203	This item will be discussed with participants, but physical recording of readings on official documents will not be required.
Implement decisions to administer radioprotective drugs.	Grundy County EOC Kendall County EOC	Exception: State Function for decision, County will coordinate for emergency workers.
Report to individual responsible for managing exposure and dose when limits are reached.	All Venues	No Exception
Implement exposure control decisions to members of the public from radiological exposure and control dose for those who are authorized to temporarily reenter a restricted area.	Kendall County EOC	Will be conducted via interview in Kendall County (-only) EOC after completion of plume phase activities. Related maps and questions will be provided and facilitated by the state exercise controller.
Emergency Worker, Just-In-Time (JIT) Training	n/a	Will not be demonstrated during this exercise

Objective 3: Alert and Notification

Capability Target 3.1: Communications - Communication processes, systems, and equipment are sufficient to support emergency operations.

Intent: The capability to provide and maintain reliable communications with emergency personnel.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.1.a, E.3, F.1, F.1.a, F.1.b, F.1.c, F.3, and O.1)

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

Exercise Parameters: Grundy and Kendall Counties will demonstrate multiple communications systems during an interview at the county Initial Warning Points and during the EOC portion of the exercise. The State Operations Center will also transmit NARS content to the Counties via land line (EONS availability currently pending). Communications to the out-of-sequence venues will be simulated. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

Assessment	Venue	Extent of Play
Utilize communication systems that are fully functional, continuously available, and redundant.	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small> GCCDC and KenCom <u>Out of Sequence:</u> IL State Police, Troop 3, South Sub-Post (Former District 5) Morris HSD #101 Morris ESD #54 Elwood CCSD #203	Exceptions; state facilities will participate to support exercise play but will not be evaluated Wednesday, March 22nd 10:30 AM (confirmed)
Maintain periodic test results and corrective actions on a real time basis.	NA	
Access at least one communication system that is independent of the commercial telephone system.	Grundy Co EOC, Kendall Co EOC, GCCDC and CENCOM SEOC/OPS Center	During Communications interview, or demonstrated during exercise play.
Manage the communication systems and ensure that all message traffic is handled without	Grundy Co EOC, Kendall Co EOC, GCCDC and CENCOM State EOC	No Exceptions

Assessment	Venue	Extent of Play
delays that might disrupt emergency operations.	WCSJ Radio, WSPY Radio	
Identify and address any failures of the systems.	<p>Grundy County EOC Kendall County EOC GCCDC and KenCom Will County EOC <small>(Unevaluated)</small> <u>Out of Sequence:</u> IL State Police, Troop 3, South Sub-Post (Former District 5) Morris HSD #101 Morris ESD #54 Elwood CCSD #203</p>	<p>No Exceptions</p> <p>Wednesday, March 22nd 10:30 AM (confirmed)</p>
Transmit, receive, and understand messages (i.e., “content check”).	<p>Grundy County EOC Kendall County EOC GCCDC and KenCom Will County EOC <small>(Unevaluated)</small> SEOC/OPS Center WCSJ Radio WSPY Radio</p>	During Communications interview, and/or demonstrated during exercise play.

Capability Target 3.2: Alert and Notification of the Public - Alert and notification of the public is completed in a timely manner.

Intent: The capability to provide instructions to the public.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.2, E.4, E.5, F.3, and O.1)

Core Capabilities: Public Information and Warning; Planning

Exercise Parameters: Alert and Notification of the public is coordinated by Grundy, Kendall and Will (unevaluated) Counties. All EPZ counties have the ability to sound sirens at multiple locations. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.). Coordination of Sirens and EAS messaging will be coordinated between Grundy, Kendall and Will (unevaluated) Counties. This function will also be demonstrated at participating radio stations (WCSJ/WJDK and WSPY), however every effort will be taken to minimize the time required for these non-governmental entities, and participation may be cancelled if real-world events require.

Assessment	Venue	Extent of Play
ALERT AND NOTIFICATION SYSTEM: Sequentially provide an alert signal followed by an initial instructional message to populated areas.	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small> GCCDC and KenCom WCSJ Radio WSPY Radio	Exception: Will be demonstrated during exercise play, or if play does not drive related activity, may be conducted via interview of participants. Communications Demonstration will be used to discuss associated points of review. Exception: Siren Activation – Evaluators will interview Sheriff Dispatch regarding the steps they would take to activate sirens. Siren activation will be simulated. Evaluator will conduct interview during mobilization (capability target 1.1)
ALERT AND NOTIFICATION SYSTEM: Alert and notify the general public. – (Subsequent Alerts)	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small> GCCDC and KenCom WCSJ Radio WSPY Radio	Same as above.
ALERT AND NOTIFICATION SYSTEM: Identify and address any failures of the system(s) or portion of a system(s).	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small> GCCDC and KenCom WCSJ Radio WSPY Radio	No Exception – See Electronic Notification System (ENS) for back-up methodology.
ALERT AND NOTIFICATION SYSTEM: Actual testing of the mobile public address system will be conducted at an agreed-upon location.	NA	
ALERT AND NOTIFICATION SYSTEM: Secondary method: Electronic Notification System (ENS)	Grundy County EOC Kendall County EOC	Exception: Utilization of IPAWS will be discussed and demonstrated (potentially Out of Sequence) during the exercise, pending availability of the IPAWS Test Lab. The process may be discussed during the communications interview.
PRIMARY ALERT NOTIFICATION SYSTEM: Identify the process to activate the EAS. -	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small>	No Exception

Assessment	Venue	Extent of Play
PRIMARY ALERT NOTIFICATION SYSTEM: Ensure that updated emergency information is disseminated in a timely manner.	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small>	No Exception
PRIMARY ALERT NOTIFICATION SYSTEM: Ensure that current emergency information is repeated at pre-established intervals.	Grundy County EOC Kendall County EOC Will County EOC <small>(Unevaluated)</small>	No Exception
EAS/NWS STATION: Identify the process to activate the EAS, to include the process to receive and then broadcast updated information/messages and verification of the message, if applicable.	Grundy County EOC Kendall County EOC	Exception: By interview with County EMA Director or designee.
EAS/NWS STATION: Broadcast the message on a 24-hour basis.	NA	No Exception
ROUTE/ALTERNATE ALERTING	Grundy County EOC Kendall County EOC	Alternative notification via IPAWS interview/demo; counties do not perform route alerting.

Capability Target 3.3: Emergency Information and Instructions for the Public and News Media: - Accurate emergency information and instructions are provided to the public and the news media in a timely manner.

Intent: The capability to disseminate emergency information and instructions to the public during all phases of an incident.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.2, E.4, E.5, G.1, G.2, G.3, G.3.a, G.4, G.5, and O.1)

Core Capabilities: Public Information and Warning; Planning

Exercise Parameters: Grundy and Kendall Counties will demonstrate this capability target by using pre-scripted messages as prescribed in plans and SOGs. Contact with media outlets will be demonstrated but no actual messages will be broadcast. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

Assessment	Venue	Extent of Play
PLUME PHASE: Deliver coordinated, prompt, reliable, and actionable information in a timely manner.	Grundy County EOC Kendall County EOC WCSJ Radio WSPY Radio *Joint Information Center	No Exception, *JIC will be unevaluated SIMCELL at SEOC
PLUME PHASE: Provide clear, concise, accessible messaging using plain language.	Grundy County EOC Kendall County EOC WCSJ Radio WSPY Radio *Joint Information Center	No Exception, *JIC will be unevaluated SIMCELL at SEOC
PLUME PHASE: Messaging addresses appropriate cultural and linguistic considerations.	NA	Exception: Kendall County and Grundy County have less than 5% non-English speaking population, and as such are not required to have alternative messaging
PLUME PHASE: Ensure subsequent messaging is consistent with protective actions.	Grundy County EOC Kendall County EOC WCSJ Radio WSPY Radio *Joint Information Center	No Exception, *JIC will be unevaluated SIMCELL at SEOC
PLUME PHASE: Update information as the incident progresses, to include validating previously identified protective areas and	Grundy County EOC Kendall County EOC WCSJ Radio	County PIO will provide updated information to the JIC (or JIC SIMCELL), and/or local media briefings.

Assessment	Venue	Extent of Play
clearly identifying any new protective action areas, any information that is no longer valid, and any changes to previously provided information (e.g., rerouting of evacuation routes due to impediments, etc.).	WSPY Radio *Joint Information Center	*JIC will be unevaluated SIMCELL at SEOC
PLUME PHASE: Respond to media and public inquiries.	Grundy County EOC Kendall County EOC	No Exception
POST-PLUME PHASE: Rapidly disseminate of ingestion exposure pathway information to predetermined individuals and businesses. (IPX)	NA	
POST-PLUME PHASE: Provide information to the public that addresses temporary reentry to a restricted area, permanent relocation from areas not evacuated, and return to formerly restricted areas will be communicated. (RRRR)	Kendall Co. EOC	Will be conducted via interview in each EOC after completion of plume phase activities. Related maps and questions will be provided and facilitated by the state exercise controller at the Kendall county EOC.

Objective 4: Detect Measure, Sample, Analyze, and Access

Exercise Parameters: Not Applicable: Entire objective is a State Function in both the plume and post-plume phases. Counties rely on dose projections and recommendations from State of Illinois for evacuation, shelter-in-place, and Potassium Iodide usage recommendations.

Assessment	Venue	Extent of Play
Field Monitoring Teams may participate for training purposes only but will not be evaluated.	IEMA-designated training area in/near Springfield during the exercise.	IEMA Radiological Response Group (RRG) will not be evaluated during this exercise.

Objective 5: Operate

Capability Target 5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees - Facilities, equipment, and procedures are in place and utilized to provide monitoring, decontamination, identification, temporary shelter, congregate care, and registration of evacuees.

Intent: The capability to implement radiological monitoring and decontamination of evacuees, and to identify, register, temporarily shelter, and provide congregate care for evacuees at reception centers.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (J.11.d, J.13, K.4, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

Exercise Parameters:

- Reception/Congregate Care Centers for the Dresden EPZ have been successfully demonstrated within the last 8 year cycle and are not currently scheduled for this exercise.

Assessment	Venue	Extent of Play
Set up operations:	NA	Will not be demonstrated during this exercise
Operationally check instruments and equipment.	NA	Will not be demonstrated during this exercise
MONITORING: Attain and sustain the overall monitoring productivity rate per hour needed to monitor 20 percent of the plume exposure pathway EPZ population, including transients, within a 12-hour period at each facility. The monitoring productivity rate per hour is the number of evacuees that can be monitored, per hour, per location, by the total complement of monitors using an appropriate procedure.	NA	Will not be demonstrated during this exercise
MONITORING: Monitor evacuees, service animals, pets, vehicles, and possessions.	NA	Will not be demonstrated during this exercise

Assessment	Venue	Extent of Play
Utilize trigger/action levels for determining the need for decontamination.	NA	Will not be demonstrated during this exercise
DECONTAMINATION: Decontaminate evacuees, and personal belongings, while limiting the spread of contamination.	NA	Will not be demonstrated during this exercise
DECONTAMINATION: Follow-up with any evacuee(s) who cannot be appropriately decontaminated for assessment; ensure the capability to provide evacuee-referrals.	NA	Will not be demonstrated during this exercise
VEHICLES: Monitor and decontaminate vehicles.	NA	Will not be demonstrated during this exercise
VEHICLES: Provide adequate, separate space for both contaminated and non-contaminated vehicles.	NA	Will not be demonstrated during this exercise
VEHICLES: Monitor evacuees and their vehicles for contamination.	NA	Will not be demonstrated during this exercise
VEHICLES: Decontaminate evacuee vehicles based on trigger/action levels.	NA	Will not be demonstrated during this exercise
SHELTERING AND CONGREGATE CARE: Coordinate for incoming evacuees who have been monitored and, if necessary, decontaminated.	NA	Will not be demonstrated during this exercise
SHELTERING AND CONGREGATE CARE: Establish shelter operations.	NA	Will not be demonstrated during this exercise
SHELTERING AND CONGREGATE CARE: Congregate care centers and	NA	Will not be demonstrated during this exercise

Assessment	Venue	Extent of Play
operations in host/support jurisdictions are sufficient to support the expected number of evacuees.		
REGISTRATION: Register evacuees.	NA	Will not be demonstrated during this exercise
REGISTRATION: Ensure the registration area is clean and controlled.	NA	Will not be demonstrated during this exercise

Capability Target 5.2: Monitoring and Decontamination of Emergency Workers, Equipment, and Vehicles

Facilities, equipment, and procedures are in place and utilized to provide monitoring and decontamination of emergency workers and their equipment and vehicles.

***Intent:** The capability to implement radiological monitoring and decontamination of emergency workers, equipment, and vehicles.*

***Planning reference:** NUREG-0654/FEMA-REP-1, Rev. 2 (K.4 and O.1)*

***Core Capabilities:** Operational Coordination; Environmental Response/Health and Safety; Planning*

***Exercise Parameters:** Emergency Worker Monitoring and Decontamination is a State responsibility and will not be evaluated during this exercise.*

Assessment	Venue	Extent of Play
Set up operations:	NA	Will not be demonstrated during this exercise
Operationally check instruments and equipment.	NA	Will not be demonstrated during this exercise
Monitor emergency worker personnel and their equipment and vehicles for contamination.	NA	Will not be demonstrated during this exercise
Decontaminate emergency worker personnel and their equipment and	NA	Will not be demonstrated during this exercise

Assessment	Venue	Extent of Play
vehicles based on trigger/action levels.		
Control the spread of contamination.	NA	Will not be demonstrated during this exercise
Create and maintain a record of monitoring and decontaminating workers upon completion of monitoring and decontamination activities.	NA	Will not be demonstrated during this exercise
Process for prioritizing emergency workers and equipment before the public in facilities where the public and emergency workers are both processed for contamination.	NA	Will not be demonstrated during this exercise

Capability Target 5.3: Transportation and Treatment of Contaminated Individuals - Transport contaminated, injured individuals to medical facilities with the capability to monitor and decontaminate.

Intent: The capability to provide medical transport and treatment services to contaminated, injured individuals.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.d, F.2, H.11, H.12, J.2, K.3, K.4, L.1, L.3, L.4, and O.1)

Core Capabilities: Environmental Response/Health and Safety; Public Health, Healthcare, Emergency Medical Services; Planning

Exercise Parameters: This target is scheduled to be addressed during an out of sequence evaluation at Advent Bolingbrook (formerly AMITA) on March 15th, 2023 at 1:00 PM.

Capability Target 5.4: Traffic and Access Control - Appropriate traffic and access control is established; accurate instructions are provided to traffic and access control staff.

Intent: The capability to select, establish, and staff traffic and access control points and removing impediments to the flow of evacuation traffic.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (H.12, J.8, J.8.b, J.10, J.10.a, J.11.c, J.11.e, J.11.f, J.14.d, J.14.e, M.1.b, and O.1)

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment.

Exercise Parameters: The Traffic Access and Control Point (TACP) ability to provide instructions to TACP providers will be demonstrated through an interview with Law Enforcement Officers in the Grundy and Kendall County EOCs, and an out of sequence TAC/DCO evaluation at IL State Police, Troop 3, South Sub-Post (Former District 5) in Lockport. No actual control point will be set up. Equipment will be available for inspection.

Assessment	Venue	Extent of Play
Select, establish, and staff appropriate TCP/ACPs, consistent with current conditions and PADs (e.g., evacuating, sheltering, and relocation), in a timely manner.	Kendall County EOC <u>Out of Sequence:</u> IL State Police Troop 3, South Sub-Post (Former District 5)	Exception: By interview with law enforcement officers in Kendall Co EOC. Grundy County TACPs covered by IL State Police. ISP D5 at their HQ on 3/28/23 at 2:30 pm (proposed/tentative)
Provide instructions to TACP staff on actions to take, including when modifications in protective action strategies necessitate changes in evacuation patterns or in the area(s) where access is controlled.	Kendall County EOC <u>Out of Sequence:</u> IL State Police Troop 3, South Sub-Post (Former District 5)	ISP D5 at their HQ on 3/28/23 at 2:30 pm (proposed/tentative)
Contact the state or Federal agencies that have the authority for the different transportation modes (e.g., rail, water, and air traffic).	State EOC (SIMCELL)	No Exception
Identify and take appropriate actions concerning impediments	Grundy County EOC	No Exception

Assessment	Venue	Extent of Play
that affect the evacuation and evacuation routes.	Kendall County EOC	
Make the decision to re-route traffic and coordinate with key decision-makers and the JIC to ensure the alternate route information is appropriately communicated to evacuees.	Kendall and Grundy County EOC State JIC (location TBD)	PIO will provide re-route instructions to the JIC or include in local media briefing, may be demonstrated or discussed depending on exercise play.
Establish procedures to control access to and monitor people and vehicles from the evacuated and restricted areas.	Kendall County EOC	The traffic control portion will be discussed during the TAC/DCO evaluation at Kendall county EOC. Exception: monitoring individuals and vehicles is a State responsibility and will not be evaluated in this exercise.
Authorize reentry of individuals into the restricted areas.	Kendall County EOC	Will be conducted via interview in each EOC after completion of plume phase activities. Related maps and questions will be provided and facilitated by the state exercise controller at each county EOC.
Establish exit procedures.	Kendall County EOC	Will be conducted via interview in each EOC after completion of plume phase activities. Related maps and questions will be provided and facilitated by the state exercise controller at each county EOC.

Section 4: Demonstration Locations, Dates, Times, and Contacts

WEDNESDAY, March 22nd, 2023:

SCHOOL EVACUATION AND SHELTERING INTERVIEW – Elwood Community Consolidated School District #203		
Address:	Elwood School 409 N Chicago Ave, Elwood, IL 60421	
Contact:	Brad Clearwater	
Telephone:	217-685-0139	
Action Location:	409 N. Chicago Avenue Elwood, IL 60421	
Date:	Wednesday, March 22 nd , 2023	
Time:	2:00 p.m. – 2:00 p.m. (confirmed)	

MONDAY March 27th, 2023

PRE-EXERCISE MEETING - TENTATIVE		
Address:	Holiday Inn Express / Ottawa 2850 Columbus Street Ottawa, IL 61350	
Contact:	Curtis Williams	
Telephone:	202-702-7315	
Action Location:	Same as above	
Date:	Monday, March 27 th	
Time:	2:00 p.m. – 3:30 p.m.	

TUESDAY March 28th, 2023

INITIAL NOTIFICATION – Grundy County Initial Warning Point		
Address:	Grundy County Consolidated Dispatch Center 78 Lowery Road, Morris, IL 60450	
Contact:	Eric Benson, State Controller	
Telephone:	217-720-7724	
Action Location:	Same as above	
Date:	Tuesday, March 27 th , 2022	
Time:	8:00 a.m. – 10:00 a.m.	

INITIAL NOTIFICATION – Kendall County Initial Warning Point		
Address:	KenCom 1102 Cornell Lane, Yorkville, IL 60560	
Contact:	Tolly Knezevich, State Controller	
Telephone:	217-685-3494	
Action Location:	Located in basement of Kendall Co Public Safety Center Co-located with Sheriff's Office	
Date:	Tuesday, March 27th, 2022	
Time:	8:00 a.m. – 10:00 a.m.	

EMERGENCY OPERATIONS CENTER – Grundy County EMA		
Address	Grundy County EMA 1320 Union Street, Morris, IL 60450	
Contact	Brad Clearwater, State Controller	
Telephone	217-685-0139	
Action Location	Same as above In county building, located at opposite end of 1 st floor from entryway	
Date:	Tuesday March 28, 2022	
Time:	8:00 a.m. – 2:00 p.m.	

TRAFFIC & ACCESS CONTROL – Illinois State Police, District 5		
Address:	ISP Troop 3, South Sub-Post (Former District 5) Headquarters 16648 Broadway St, Lockport, IL 60441	
Contact:	Brad Clearwater, State Controller	
Telephone:	217/685-0139	
Action Location:	Same as above.	
Date:	Tuesday March 28, 2023	
Time:	2:30 p.m. – 3:45 p.m. (tentative)	

EMERGENCY OPERATIONS CENTER – Kendall County EMA		
Address	Kendall County EMA 1102 Cornell Lane, Yorkville, IL 60560	
Contact	Roger Bonuchi, Director, Kendall Co EMA	
Telephone	630/553-4500	
Action Location	Located in basement of Kendall Co Public Safety Center Co-located with Sheriff's Office	
Date:	Tuesday March 28, 2022	
Time:	8:00 a.m. – 2:00 p.m.	

WEDNESDAY March 29th, 2023

SCHOOL EVACUATION AND SHELTERING INTERVIEW – Morris High School District #101		
Address:	Morris High School 1000 Union Street, Morris, IL 60450	
Contact:	Tolly Knezevich, State Controller	
Telephone:	217-685-3494	
Action Location:	Morris HS is located 1 block south of the Grundy County EMA.	
Date:	Wednesday, March 29 th , 2023	
Time:	9:00a.m. – 10:15 a.m. (confirmed)	

SCHOOL EVACUATION AND SHELTERING INTERVIEW – Morris Elementary School District #54		
Address:	Morris Elementary School 2001 Dupont Ave, Morris, IL 60450	
Contact:	Tolly Knezevich, State Controller	
Telephone:	217-685-3494	
Action Location:		
Date:	Wednesday, March 29 th , 2023	
Time:	11:00 a.m. – 12:15 p.m. (confirmed)	

FRIDAY March 31st, 2023

PARTICIPANT BRIEFING – Grundy County EOC		
Address	1320 Union Street Morris, IL	
Contact	Joe Schroeder	
Telephone	815/941-3212	
Action Location	Same as above	
Date:	Friday, March 31st, 2023	
Time:	10:00 a.m. – 10:45 a.m.	

PUBLIC/MEDIA BRIEFING – Grundy County EOC		
Address:	1320 Union Street Morris, IL	
Contact:	Joe Schroeder	
Telephone:	815/941-3212	
Action Location:	Same as above	
Date:	Friday, March 31st, 2023	
Time:	11:00 a.m. – 12:00 p.m.	

Section 5: Back-up Documentation

Illinois Plan for Radiological Accidents (IPRA), Suggested Operational Guidance and other supporting information to be provided separately.

Section 6: Acronyms

Acronym	Term
ARC	American Red Cross
CDT	Central Daylight Time
EMS	Emergency Medical Service
EOC	Emergency Operations Center
EOP	Extent of Play
EWDC	Emergency Worker Monitoring/Decontamination Center
FEMA	Federal Emergency Management Agency
IEMA	Illinois Emergency Management Agency
ILEAS	Illinois Law Enforcement Alarm System
IPRA	Illinois Plan for Radiological Accidents
ISP T3 SSP	Illinois State Police, Troop 3, South Sub-Post (Former District 5)
IWP	Initial Warning Point
JIC	Joint Information Center
MABAS	Mutual Aid Box Alarm System
ORO	Offsite Response Organization
PIO	Public Information Officer
R5	FEMA Region Five
RAC	Radiological Assistance Committee
REAC	Radiological Emergency Assessment Center (IEMA)
RRG	Radiological Response Group (IEMA)
SEOC	State Emergency Operations Center
SOG	Suggested Operational Guidance
SUAC	State Unified Area Command
TACP	Traffic/Access Control Point