

Final After Action/ Improvement Plan

Exercise Date – March 1, 2022

Radiological Emergency Preparedness (REP) Program



Braidwood Generating Station



FEMA

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EXECUTIVE SUMMARY

On March 1, 2022, the Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA) Region 5 Radiological Emergency Preparedness Program staff evaluated a Partial-Participation Plume Exposure Pathway Exercise in the Emergency Planning Zone (EPZ) for the Braidwood Station.

Braidwood Station is located in Will County, Illinois. The purpose of the exercise was to assess the level of state and local preparedness in responding to an incident at the Braidwood Station. This exercise was conducted in accordance with FEMA's 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 March 4, 2020. The qualifying emergency preparedness exercise was conducted on November 6, 1988.

Officials and representatives from the State of Illinois, the risk Counties of Kankakee, and 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 wishes to acknowledge the efforts of the many individuals who participated in the exercise and made it a success. Approximately 123 individuals participated in the off-site portion of the exercise. The professionalism and teamwork of the participants was evident throughout all phases of the exercise.

SECTION 1: Exercise Overview

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

- Taking the lead in the offsite emergency planning and in the review and evaluation of Radiological Emergency Preparedness Plans and procedures developed by State and local governments,
- Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by State and local governments,
- Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated December 7, 2015 (Federal Register, Vol.82, No.88, May 9, 2017); and
- Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:
 - U.S. Department of Agriculture,
 - U.S. Department of Commerce,
 - U.S. Department of Energy,
 - U.S. Department of Health and Human Services,
 - U.S. Department of Interior,
 - U.S. Department of Transportation,
 - U.S. Environmental Protection Agency,
 - U.S. Food and Drug Administration, and
 - U.S. Regulatory Commission.

Representatives of these agencies serve on the DHS/FEMA Region 5 Regional Assistance Committee (RAC), which is chaired by DHS/FEMA.

A REP Partial-Participation Plume Exposure Pathway Exercise was conducted on March 1, 2022 and evaluated by DHS/FEMA to assess the capabilities of State and local offsite emergency preparedness organizations in implementing their plans and procedures to protect the public's health and safety during a radiological emergency involving the Braidwood Station. The purpose of this exercise report is to present the exercise results and findings on the performance of the Off-Site Response Organizations during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluation team, with final determinations made by the DHS/FEMA Region 5 RAC Chair and approved by the DHS/FEMA Headquarters.

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

- NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980; and
- FEMA P-1028 REP Program Manual, dated January 2016.

1.1 Exercise Details

EXERCISE NAME

2022 Braidwood Station Radiological Emergency Preparedness (REP), Partial Participation Plume Exercise

TYPE OF EXERCISE

Plume Exposure Pathway

EXERCISE DATE

March 1, 2022

LOCATIONS

See Appendices C and E for a complete list of locations.

SPONSERS

Illinois Emergency Management Agency
2200 South Dirksen Parkway
Springfield IL 62703

Constellation Nuclear
4300 Winfield Road
Warrenville, IL 60555

PROGRAM

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

MISSION

Response

SCENARIO TYPE

Radiological Emergency

1.2 Exercise Planning Team Leadership

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1.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the exercise:

STATE ORGANIZATIONS

State of Illinois

Illinois Emergency Management Agency
Illinois Emergency Management Agency Operations and Radiological Officer liaisons

RISK COUNTY ORGANIZATIONS

Kankakee County

Kankakee County Board Chair
Kankakee County Coroner
Kankakee County Consolidated Dispatch Center (KANCOMM)
Kankakee County Emergency Management Agency
Kankakee County Health Department
Kankakee County Regional Office of Education
Kankakee County Sheriff's Office

Will County

Laraway Communication Center
Will County Coroner's Office
Will County Division of Transportation
Will County Emergency Management Agency
Will County Executive's Office
Will County Forest Preserve Police
Will County GIS Division
Will County Health Department
Will County Regional Office of Education
Will County Sheriff's Department
Northwest Home Fire Department

Grundy County

Grundy County Emergency Management
Grundy County Board Chair
Grundy County Health Department
Grundy County Sheriff's Department

PRIVATE ORGANIZATIONS

American Red Cross
Central Illinois Dispatch Center
Constellation Energy
OSF Saint Mary's, Riverside Healthcare
WVLI EAS Station, WJOL/WSSR/WCCQ/WRXQ EAS Station

FEDERAL ORGANIZATIONS

Nuclear Regulatory Commission

SECTION 2: Exercise Design Summary

2.1 Exercise Purpose and Design

The Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) administers the Radiological Emergency Preparedness (REP) Program pursuant to the regulations found in Title 44 Code of Federal Regulation (CFR) parts 350, 351, and 352. Title 44 CFR Part 350 names sixteen planning standards that form the basis for radiological emergency response planning for state, tribal, and local governments impacted by the Emergency Planning Zones established for each nuclear power plant site in the United States. Title 44 CFR Part 350 sets forth the mechanisms for the formal review and approval of state, tribal, and local government radiological emergency response plans and procedures by DHS/FEMA. One of the REP Program requirements established by these regulations is the biennial exercise of offsite response capabilities. During these exercises, DHS/FEMA evaluates state, tribal, and local government plans, procedures, and actions to protect the health and safety of the public in the event of a radiological emergency at the nuclear plant.

The DHS/FEMA provides a statement with the transmission of this Final AAR/IP to the United States NRC that the affected state, tribal, and local 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 emergency; and (2) capable of being implemented. The report and statement are based on the results of this exercise, review of the radiological emergency response plans and procedures, and verification of the periodic requirements set forth in *"Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980* (NUREG-0654/FEMA-REP-1, Rev.1) through the annual letter of certification and staff assistance visits.

Formal submission of the radiological emergency response plans for the Braidwood Station to FEMA Region 5 by the State of Illinois and involved local jurisdictions occurred on November 6, 1985. Formal approval of the plans was granted by FEMA on April 15, 1988, under 44 CFR 350.

2.2 FEMA Core Capabilities and Exercise Objectives

Core Capabilities-based planning allows for exercise planning teams to develop exercise objectives and observe exercise outcomes through a framework of specific action items. Using the Homeland Security Exercise and Evaluation Program methodology, the exercise objectives meet the Radiological Emergency Preparedness Program requirements and encompass the emergency preparedness evaluation areas. The critical tasks to be demonstrated were negotiated with State of Illinois, Kankakee, Grundy (RRR only), and Will Counties. The Core Capabilities demonstrated during this exercise were:

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. Mobilize all critical resources and establish command, control, and coordination structures within the affected community, in other coordinating bodies in surrounding communities, and across the Nation, and maintain as needed throughout the duration of an incident. Enhance and maintain command, control, and coordination structures consistent with the National Incident Management System (NIMS) to meet basic human needs, stabilize the incident, and transition to recovery.

Situational Assessment: 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. Deliver information sufficient to inform decision making regarding immediate lifesaving and life-sustaining activities, and engage governmental, private, and civic sector resources within and outside of the affected area to meet basic human needs and stabilize the incident. Deliver enhanced information to reinforce ongoing lifesaving and life-sustaining activities, and engage governmental, private, and civic sector resources within and outside of the affected area to meet basic human needs, stabilize the incident, and transition to recovery.

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. Inform all affected segments of society of critical lifesaving and life-sustaining information by all means necessary, including accessible tools, to expedite the delivery of emergency services and aid the public to take protective actions. Deliver credible and actionable messages to inform ongoing emergency services and the public about protective measures and other life-sustaining actions and facilitate the transition to recovery.

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. Identify, assess, and mitigate worker health and safety hazards, and disseminate health and safety guidance and resources to response and recovery workers. Minimize public exposure to environmental hazards through assessment of the hazards and implementation of public protective actions. Detect, assess, stabilize, and clean up releases of oil and hazardous materials into the environment, including buildings/structures, and properly manage waste. Identify, evaluate, and implement measures to prevent and minimize impacts to the environment, natural and cultural resources, and historic properties from all-hazard emergencies and response operations.

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. Establish a safe and secure environment in an affected area. Provide and maintain on-scene security and

meet the protection needs of the affected population over a geographically dispersed area while eliminating or mitigating the risk of further damage to persons, property, and the environment.

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. Establish physical access through appropriate transportation corridors and deliver required resources to save lives and to meet the needs of disaster survivors. Ensure basic human needs are met, stabilize the incident, transition into recovery for an affected area, and restore basic services and community functionality. Clear debris from any route type (i.e., road, rail, airfield, port facility, waterway) to facilitate response operations.

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. Establish, staff, and equip emergency shelters and other temporary housing options (including accessible housing) for the affected population. Move from congregate care to non-congregate care alternatives and provide relocation assistance or interim housing solutions for families unable to return to their pre-disaster homes.

Operational Communications: 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. Ensure the capacity to communicate with both the emergency response community and the affected populations and establish interoperable voice and data communications between Federal, tribal, state, and local first responders.

Infrastructure Systems: Stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community. Re-establish critical infrastructure within the affected areas to support ongoing emergency response operations, life sustainment, community functionality, and a transition to recovery. Provide for the clearance, removal, and disposal of debris. This core capability includes the capability to address roadway impediments due to landslides and other events that impair/impede safe evacuation of the public.

The Core Capabilities and their associated Evaluation Criteria selected for demonstration by the jurisdictions establish the assessment objectives for the exercise. These Core Capabilities, when successfully demonstrated, meet the exercise objectives.

The objectives for this exercise were as follows:

Objective 1: Demonstrate the ability to provide direction and control and make protective action decisions through the state emergency operations centers, county emergency operations centers, and field activities by exercise play and discussion of plans and procedures.

Objective 2: Demonstrate the ability to make protective action decisions affecting state and county emergency workers and the public through exercise play and discussion of plans and procedures.

Objective 3: Demonstrate the ability to implement protective actions for state and county emergency workers and the public through exercise play and discussion of plans and procedures.

Objective 4: Demonstrate the ability to activate the prompt alert and notification system utilizing the primary notification system and the emergency alert system through exercise play and discussion of plans and procedures.

Objective 5: Demonstrate the effectiveness of plans, policies, and procedures in the joint information centers and the joint information system for public and private sector emergency information communications through exercise play and discussion of plans and procedures.

Objective 6: Demonstrate the ability to monitor, decontaminate, register, and shelter evacuees through exercise play and discussion of plans and procedures.

Objective 7: Demonstrate the ability to provide dose projection and protective action decision making for the plume phase.

Objective 8: Demonstrate the capacity for timely communications in support of security, situational awareness, and operations in accordance with the plan, procedures, and Extent-of-Play Agreement, among and between affected communities in the impact area and all response forces.

Objective 9: Demonstrate the capacity to stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community. Demonstrate the capacity to 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.

Collectively, these nine Objectives successfully demonstrated the Core Capabilities and Evaluation Criteria selected by the jurisdictions in accordance with NUREG-0654/FEM-REP-1 and the REP Program Manual (FEMA P-1028, dated January 2016).

SECTION 3: Analysis of Capabilities

3.1 Summary Results of Exercise Evaluation

This section provides a combined assessment of state and local jurisdictions based upon their collective demonstrated performance under the core capabilities associated with the exercise evaluation criteria described in Appendix E: Extent-of-Play Agreements. It employs an integration of the Homeland Security Exercise Evaluation Program and REP Program evaluation methodologies – an analytical process used to assess the demonstration of specific capabilities during an exercise. A capability provides a means to perform one or more critical tasks under specified conditions and to specific performance standards. Core capabilities form the foundation of the National Preparedness System. The REP Program evaluation criteria provide the conditions and performance standards for establishing reasonable assurance that State and Local authorities can protect public health and safety in response to a nuclear power plant accident.

An overall summary of demonstrated capabilities is presented in Section 3.1, Tables 3.1.1 through 3.1.4 of this report. Criteria-specific narrative summaries are presented in Section 3.2 of the report. The narratives summarize observations made pursuant to the REP Program Evaluation Criteria used to assess the organizations and locations that were selected by the State of Illinois, Will, Kankakee, and Grundy Counties. The organizations, locations, and evaluation criteria selected are described in Appendix E: Extent-of-Play Agreements were approved by DHS/FEMA on February 7, 2022.

The results of the assessment are summarized below by Core Capability, as demonstrated during the March 1, 2022, Braidwood Station REP Exercise.

Operational Coordination: Key leadership personnel established and maintained a unified and coordinated operational structure which provided effective and responsive command, direction and control and coordination within and between the affected jurisdictions to meet basic human needs and stabilize the incident. Critical stakeholders were appropriately integrated within the overall decision-making process, which enabled protective action recommendations to be evaluated in an appropriate and timely manner. This process included input from both relevant critical stakeholders and support personnel and considered the safety and well-being of emergency workers and the general public and protecting property and infrastructure protective action decisions were made without undue delay.

Situational Assessment: Decision makers were provided with decision-relevant information regarding the nature and extent of the simulated radiological and other hazards, any cascading effects, and the status of the response. The Illinois Emergency Management Agency Radiological Emergency Assessment Center demonstrated proficiency in the use of dose assessment software to calculate dose projections independent of the Braidwood Station's dose projections. The staff calculated hypothetical dose projections based on plant conditions, possible release scenarios, and Controller-injected field monitoring team data. Leadership was prepared to gather and deliver enhanced information to reinforce lifesaving and life-sustaining activities, if needed, and engage governmental and private sector resources within and outside of the affected area to meet basic human needs and stabilize the incident, as necessary.

Public Information and Warning: The jurisdictions, as a whole, demonstrated the ability to deliver coordinated, prompt, reliable and actionable information to the whole community through the use of clear, consistent and accessible means. Accurate initial information and follow-up on instructions were made with the formulation of news releases being reviewed from the Joint Information System and briefings conducted

at the Kankakee County and Will County Emergency Management Agency. Alert and notification of the public and media was completed in a timely manner by simulated means of sounding of sirens, Emergency Alert System messaging, warning in state parks, news releases and media briefings. The simulated release of information via the aforementioned public information modes were consistent with protective action decisions and contained applicable and specific instructions relative to those decisions.

Environmental Response/Health and Safety: Appropriate measures were taken to ensure the protection of the health and safety of the public and workers, as well as the environment in support of responder operations and the affected communities. The availability of guidance and resources to address hazardous radiological materials was integrated in support of responder operations and the affected communities. State Liaisons at the Braidwood Station Emergency Operations Facility, Kankakee County Emergency Operations Center (EOC), and Will County EOC communicated well with the State EOC to ensure that state protective action recommendations and county protective action decisions and responses were coordinated properly. Leadership identified, assessed, and mitigated worker health and safety hazards and disseminated health and safety guidance and resources to responders in accordance with the scenario, plans and procedures, and the extent-of-play agreements.

On-Scene Security and Protection: State and local law enforcement agencies demonstrated the capability to 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 who could have been directed to engage in lifesaving and life-sustaining operations. The implementation of traffic and access control was appropriately assessed and coordinated in a timely manner. On-scene security at Emergency Operations Centers (EOCs), schools, reception centers and other facilities met protection requirements and eliminated or mitigated the risk of damage to persons, property, and the environment.

Critical Transportation: Officials demonstrated the capability to provide 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. School officials effectively demonstrated the ability to implement protective actions for affected local schools.

Mass Care Services: Congregate care center staff demonstrated the ability to provide life-sustaining services to affected populations with a focus on family reunification, feeding and sheltering. The American Red Cross, which manages all shelter operations under the REP Program, demonstrated the ability to provide resources, services and accommodations consistent with planning guidelines. They also demonstrated knowledge of the process, and to determine whether evacuees had been monitored for contamination and determined to be acceptable before entering congregate care facilities.

Public Health, Healthcare, and Medical Services: Qualified medical personnel successfully demonstrate the ability to provide targeted public health, medical, and behavioral health support and products to populations that might enter shelters and deliver medical countermeasures to exposed populations at Adventist Bolingbrook Hospital.

Operational Communications: Evaluation Criterion 1d1, which is the key criterion for this capability, was evaluated for applicable organizations and functional entities. Each applicable organization and location demonstrated the capacity for timely communications in support of security, situational awareness, and operations by primary and backup means, the ability to communicate with both the emergency response community and the affected populations, and to establish interoperable communications between Federal, state, and local all response groups and locations and between affected communities in the impact area.

Infrastructure Systems: Evaluation Criterion 3d2, which is the key criterion for this capability, was assessed pursuant to the State of Illinois, Kankakee County, and Will County capabilities to address impediments to mass evacuation. The State of Illinois, Kankakee County, and Will County demonstrated the capability to address roadway impediments due to road blockages and other events that impair/impede safe evacuation of the public.

3.2 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 01, 2022, Partial Participation Plume Exercise and out-of-sequence interviews and demonstrations.

Each jurisdiction and functional entity were evaluated based on their demonstration of Core Capabilities and their equivalent Radiological Emergency Preparedness Evaluation Criteria, as delineated in the Federal Emergency Management Agency Radiological Emergency Preparedness Program Manual dated January 2016. Exercise criteria are listed by number, and the demonstration status of those criteria are indicated by the use of the following terms:

- M: Met (No unresolved Level 1 or Level 2 Findings were assessed, and there were no unresolved Findings from prior exercises)
- L1: Level 1 Finding was assessed
- L2: Level 2 Finding was assessed or there was an unresolved Level 2 Finding from a prior exercise
- P: Plan Issue was assessed
- ND: Not Demonstrated (the criterion was not demonstrated)
- NA: Not Applicable
- NS: Not Selected (the criterion was not selected for demonstration)

Table 3.1.1 Summary of Exercise Evaluation - State of Illinois Activities

DATE: March 1, 2022 SITE: Braidwood Station M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected	Criterion	SEOC-Springfield	JIC-Springfield	Illinois State Police District 21 - TACP	Illinois State Police District 21 - DCO Briefing
Emergency Operations Management					
Mobilization	1a1				
Facilities	1b1				
Direction and Control	1c1				
Communications Equipment	1d1				
Equipment and Supplies to Support Operations	1e1				
Protective Action Decision-Making					
EW Exposure Control Decisions	2a1				
PARs	2b1				
PADs	2b2				
PADs for Disabled/Functional Needs	2c1				
Ingestion PADs	2d1				
RRR Decisions	2e1				
Protective Action Implementation					
EW Exposure Control Implementation	3a1			M	M
KI Public/Institutionalized	3b1				
PAD Implementation Disabled/Functional Needs	3c1				
PAD Implementation Schools	3c2				
TACP Establishment	3d1			M	
Impediments	3d2				
Implement Ingestion PADs	3e1				
Ingestion Pathway Decisions	3e2				
Implementation of RRR Decisions	3f1				
Field Measurement and Analysis					
RESERVED	4a1				
Field Team Management	4a2				
Field Team Operations	4a3				
Field Team Sampling	4b1				
Laboratory Operations	4c1				
Emergency Notification and Public Info					
Initial Alert & Notification	5a1				
RESERVED	5a2				
Backup Alert & Notification	5a3				
Exception Area Alerting	5a4				
Subsequent Information & Instructions	5b1				
Support Operations and Facilities					
Reception Center Operations	6a1				
EW Monitoring & Decontamination	6b1				
Congregate Care	6c1				
Contaminated Injured Transport & Care	6d1				

Table 3.1.2 Summary of Exercise Evaluation - Grundy County Activities

DATE: March 1, 2022 SITE: Braidwood Station M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected	Criterion	Grundy County EOC	RRR
Emergency Operations Management			
Mobilization	1a1		
Facilities	1b1		
Direction and Control	1c1		
Communications Equipment	1d1		
Equipment and Supplies to Support Operations	1e1		
Protective Action Decision-Making			
EW Exposure Control Decisions	2a1		
PARs	2b1		
PADs	2b2		
PADs for Disabled/Functional Needs	2c1		
Ingestion PADs	2d1		
RRR Decisions	2e1		M
Protective Action Implementation			
EW Exposure Control Implementation	3a1		
KI Public/Institutionalized	3b1		
PAD Implementation Disabled/Functional Needs	3c1		
PAD Implementation Schools	3c2		
TACP Establishment	3d1		
Impediments	3d2		
Implement Ingestion PADs	3e1		
Ingestion Pathway Decisions	3e2		
Implementation of RRR Decisions	3f1		M
Field Measurement and Analysis			
RESERVED	4a1		
Field Team Management	4a2		
Field Team Operations	4a3		
Field Team Sampling	4b1		
Laboratory Operations	4c1		
Emergency Notification and Public Info			
Initial Alert & Notification	5a1		
RESERVED	5a2		
Backup Alert & Notification	5a3		
Exception Area Alerting	5a4		
Subsequent Information & Instructions	5b1		
Support Operations and Facilities			
Reception Center Operations	6a1		
EW Monitoring & Decontamination	6b1		
Congregate Care	6c1		
Contaminated Injured Transport & Care	6d1		

Table 3.1.3 Summary of Exercise Evaluation - Kankakee County Activities

DATE: March 1, 2022 SITE: Braidwood Station M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected							
	Criterion	Initial Warning Point	Kankakee EOC	EOC - DCO Briefing	TACP	Emergency Alert System - WVLI	RRR
Emergency Operations Management							
Mobilization	1a1	M	M				
Facilities	1b1		M				
Direction and Control	1c1		M				
Communications Equipment	1d1	M	M		M		
Equipment and Supplies to Support Operations	1e1		M	M	M		
Protective Action Decision-Making							
EW Exposure Control Decisions	2a1						
PARs	2b1						
PADs	2b2		M				
PADs for Disabled/Functional Needs	2c1		M				
Ingestion PADs	2d1						
RRR Decisions	2e1						M
Protective Action Implementation							
EW Exposure Control Implementation	3a1		M	M	M		
KI Public/Institutionalized	3b1		M				
PAD Implementation Disabled/Functional Needs	3c1		M				
PAD Implementation Schools	3c2		M				
TACP Establishment	3d1		M		M		
Impediments	3d2		M				
Implement Ingestion PADs	3e1						
Ingestion Pathway Decisions	3e2						
Implementation of RRR Decisions	3f1						M
Field Measurement and Analysis							
RESERVED	4a1						
Field Team Management	4a2						
Field Team Operations	4a3						
Field Team Sampling	4b1						
Laboratory Operations	4c1						
Emergency Notification and Public Info							
Initial Alert & Notification	5a1		M			M	
RESERVED	5a2						
Backup Alert & Notification	5a3						
Exception Area Alerting	5a4						
Subsequent Information & Instructions	5b1		M				
Support Operations and Facilities							
Reception Center Operations	6a1						
EW Monitoring & Decontamination	6b1						
Congregate Care	6c1						
Contaminated Injured Transport & Care	6d1						

Table 3.1.4 Summary of Exercise Evaluation - Will County Activities

DATE: March 1, 2022 SITE: Braidwood Station M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected							
	Criterion	Initial Warning Point	Will EOC	EOC - DCO Briefing	TACP	Emergency Alert System - WJOL/WSSR/WCCQ/WRXQ	RRR
Emergency Operations Management							
Mobilization	1a1	M	M				
Facilities	1b1		M				
Direction and Control	1c1		M				
Communications Equipment	1d1	M	M		M		
Equipment and Supplies to Support Operations	1e1		M	M	M		
Protective Action Decision-Making							
EW Exposure Control Decisions	2a1						
PARs	2b1						
PADs	2b2		M				
PADs for Disabled/Functional Needs	2c1		M				
Ingestion PADs	2d1						
RRR Decisions	2e1						M
Protective Action Implementation							
EW Exposure Control Implementation	3a1		M	M	M		
KI Public/Institutionalized	3b1		M				
PAD Implementation Disabled/Functional Needs	3c1		M				
PAD Implementation Schools	3c2		M				
TACP Establishment	3d1		M		M		
Impediments	3d2		M				
Implement Ingestion PADs	3e1						
Ingestion Pathway Decisions	3e2						
Implementation of RRR Decisions	3f1						M
Field Measurement and Analysis							
RESERVED	4a1						
Field Team Management	4a2						
Field Team Operations	4a3						
Field Team Sampling	4b1						
Laboratory Operations	4c1						
Emergency Notification and Public Info							
Initial Alert & Notification	5a1		M			M	
RESERVED	5a2						
Backup Alert & Notification	5a3						
Exception Area Alerting	5a4						
Subsequent Information & Instructions	5b1		M				
Support Operations and Facilities							
Reception Center Operations	6a1						
EW Monitoring & Decontamination	6b1						
Congregate Care	6c1						
Contaminated Injured Transport & Care	6d1						

3.3 Jurisdictional Summary of Exercise Evaluation Results

The following sections present narrative summaries that describe observations made during the exercise pursuant to the Evaluation Criteria and Core Capabilities demonstrated at each jurisdiction's response locations. Narrative summaries are organized by Jurisdiction, Location, Assessed Core Capability, and the Evaluation Criterion discussed in the Appendix E Extent-of-Play Agreements. The results of the assessments are summarized in Tables 3.2.1, 3.2.2, 3.2.3, and 3.2.4.

3.3.1 State of Illinois Demonstration

3.3.1.1. Illinois State Police-District 21 - DCO Briefing

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

3.3.1.2. Illinois State Police-District 21 – Traffic and Access Control Point

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Criterion 3.d.1 – Core Capability: Operational Coordination

Core Capability: Critical Transportation

Core Capability: On-Scene Security and Protection

3.3.2 Grundy County Demonstration

3.3.2.1. RRR

Criterion 2.e.1 – Operational Coordination

Environmental Response/Health and Safety

Situational Assessment

Economic Recovery

Health and Social Services

Housing

Natural and Cultural Resources

Criterion 3.f.1 – Operational Coordination

Critical Transportation

Economic Recovery

Health and Social Services

Housing

Natural and Cultural Resources

3.3.3 Kankakee County Demonstration

3.3.3.1. Initial Warning Point

Criterion 1.a.1 – Operational Communications

Criterion 1.d.1 – Operational Communications

3.3.3.2. Kankakee EOC

Criterion 1.a.1 – Operational Communications

Criterion 1.b.1 – Operational Coordination
Operational Communications
Situational Assessment

Criterion 1.c.1 – Operational Coordination
Operational Communications
Situational Assessment

Criterion 1.d.1 – Operational Communications

Criterion 1.e.1 – Environmental Response/Health and Safety
Mass Care Services
Public and Private Services and Resources
Public Health and Medical Services

Criterion 2.b.2 – Operational Coordination
Intelligence and Information Sharing
Environmental Response/Health and Safety
Operational Communication
Situational Assessment

Criterion 2.c.1 – Operational Coordination
Operational Communication
Situational Assessment

Criterion 3.a.1 – Operational Coordination
Environmental Response/Health and Safety

Criterion 3.b.1 – Operational Coordination
Public Information and Warning
Environmental Response/Health and Safety
Public and Private Services and Resources

Criterion 3.c.1 – Operational Coordination
Critical Transportation

Criterion 3.c.2 – Operational Coordination
Critical Transportation
Environmental Response/Health and Safety

Criterion 3.d.1 – Operational Coordination
Critical Transportation
On-Scene Security and Protection

Criterion 3.d.2 – Operational Coordination

Critical Transportation
Infrastructure Systems

Criterion 5.a.1 – Operational Coordination

Public Information and Warning

Criterion 5.b.1 – Core Capability: Public Information and Warning

Core Capability: Operational Communications

3.3.3.3. EOC - DCO Briefing

Criterion 1.e.1 – Environmental Response/Health and Safety

Mass Care Services
Public and Private Services and Resources
Public Health and Medical Services

Criterion 3.a.1 – Operational Coordination

Environmental Response/Health and Safety

3.3.3.4. TACP

Criterion 1.d.1 – Operational Communications

Criterion 1.e.1 – Environmental Response/Health and Safety

Mass Care Services
Public and Private Services and Resources
Public Health and Medical Services

Criterion 3.a.1 – Operational Coordination

Environmental Response/Health and Safety

Criterion 3.d.1 – Operational Coordination

Critical Transportation
On-Scene Security and Protection

3.3.3.5. Emergency Alert System - WVLI

Criterion 5.a.1 – Operational Coordination

Public Information and Warning

3.3.3.6. RRR

Criterion 2.e.1 – Operational Coordination

Environmental Response/Health and Safety
Situational Assessment
Economic Recovery
Health and Social Services
Housing

Natural and Cultural Resources

Criterion 3.f.1 – Operational Coordination

Critical Transportation

Economic Recovery

Health and Social Services

Housing

Natural and Cultural Resources

3.3.4 Will County Demonstration

3.3.4.1. Initial Warning Point

Criterion 1.a.1 – Operational Communications

Criterion 1.d.1 – Operational Communications

3.3.4.2. Will County EOC

Criterion 1.a.1 – Operational Communications

Criterion 1.b.1 – Operational Coordination

Operational Communications

Situational Assessment

Criterion 1.c.1 – Operational Coordination

Operational Communications

Situational Assessment

Criterion 1.d.1 – Operational Communications

Criterion 1.e.1 – Environmental Response/Health and Safety

Mass Care Services

Public and Private Services and Resources

Public Health and Medical Services

Criterion 2.b.2 – Operational Coordination

Intelligence and Information Sharing

Environmental Response/Health and Safety

Operational Communication

Situational Assessment

Criterion 2.c.1 – Operational Coordination

Operational Communication

Situational Assessment

Criterion 3.a.1 – Operational Coordination

Environmental Response/Health and Safety

Criterion 3.b.1 – Operational Coordination

Public Information and Warning

**Environmental Response/Health and Safety
Public and Private Services and Resources**

**Criterion 3.c.1 – Operational Coordination
Critical Transportation**

**Criterion 3.c.2 – Operational Coordination
Critical Transportation
Environmental Response/Health and Safety**

**Criterion 3.d.1 – Operational Coordination
Critical Transportation
On-Scene Security and Protection**

**Criterion 3.d.2 – Operational Coordination
Critical Transportation
Infrastructure Systems**

**Criterion 5.a.1 – Operational Coordination
Public Information and Warning**

3.3.4.3. Will County EOC - DCO Briefing

Criterion 1.d.1 – Operational Communications

**Criterion 1.e.1 – Environmental Response/Health and Safety
Mass Care Services
Public and Private Services and Resources
Public Health and Medical Services**

**Criterion 3.a.1 – Operational Coordination
Environmental Response/Health and Safety**

3.3.4.4. Will County TACP

Criterion 1.d.1 – Operational Communications

**Criterion 1.e.1 – Environmental Response/Health and Safety
Mass Care Services
Public and Private Services and Resources
Public Health and Medical Services**

**Criterion 3.a.1 – Operational Coordination
Environmental Response/Health and Safety**

**Criterion 3.d.1 – Operational Coordination
Critical Transportation
On-Scene Security and Protection**

3.3.4.5. Emergency Alert System - WJOL/WSSR/WCCQ/WRXQ

**Criterion 5.a.1 – Operational Coordination
Public Information and Warning**

3.3.4.6. RRR**Criterion 2.e.1 – Operational Coordination****Environmental Response/Health and Safety****Situational Assessment****Economic Recovery****Health and Social Services****Housing****Natural and Cultural Resources****Criterion 3.f.1 – Operational Coordination****Critical Transportation****Economic Recovery****Health and Social Services****Housing****Natural and Cultural Resources**

SECTION 4: Conclusion

There were no Level 1 or Level 2 Findings or Plan Issues identified for the State of Illinois, Kankakee, Will, or Grundy Counties.

Based on the results of the exercise, the planning and preparedness for the State of Illinois and affected local jurisdictions provide reasonable assurance that appropriate measures can be taken to protect public health and safety. Therefore, Title 44 CFR Part 350 approval of the offsite radiological emergency response plans and preparedness for the State of Illinois remains in effect

APPENDIX A: Improvement Plan

The DHS/FEMA evaluation team identified no Level 1 or Level 2 Findings and no Plan Issues for the 2022 Braidwood Generating Station Exercise.

APPENDIX B: Exercise Timeline

All times were Central Standard Time

Emergency Classification Level or Event	Time Utility Declared							
		REAC	SEOC	Will	Kankakee County	Grundy County	JIC Info ¹² received	JIC Info Issued to public
Unusual Event (end of verification call for ECLs) ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0811	N/A	N/A	0851	0846	N/A	N/A	N/A
Site Area Emergency	0923	N/A	N/A	0957	0953	N/A	N/A	N/A
General Emergency	1030	N/A	N/A	1103	1050	N/A	N/A	N/A
Release of Radioactive Material Started ²		N/A	N/A	1103	1050	N/A	N/A	N/A
Release of Radioactive Material Terminated ³		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational ⁴		N/A	N/A	0853	0920	N/A	N/A	N/A
Declaration of State/Local Emergency ⁵		N/A	N/A	0953	1000	N/A	N/A	N/A
Exercise Termination		N/A	N/A	1202	1227	N/A	N/A	N/A
Early Precautionary Action Decision: ⁶ <The State issued an order to evacuate state parks and hunting areas.>		N/A	N/A	N/A	N/A	N/A	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	1005	1000	N/A	N/A	N/A
Early Precautionary Action Decision: ⁶ <The state issued Air, water and rail traffic within 5/10 miles of Braidwood County Station restricted.>		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Early Precautionary Action Decision: ⁶ <Evacuate Schools and/or Special Populations.>		N/A	N/A	0930	N/A	N/A	N/A	N/A
General Information Message: ⁷ <Public advised of incident at Braidwood County Station>		N/A	N/A	0947	0944	N/A	N/A	N/A
Siren Activation: ⁸		N/A	N/A	0950	0950	N/A	N/A	N/A
EAS Message: ⁹		N/A	N/A	0952	0952	N/A	N/A	N/A
Protective Action Recommendation ¹⁰ Evacuation of Sub-Areas: (1,3 Will)(6 Kankakee)		N/A	N/A	1103	1059	N/A	N/A	N/A
Protective Action Decision: ¹¹		N/A	N/A	1103	1102	N/A	N/A	N/A
Siren Activation: ⁸		N/A	N/A	1103	1105	N/A	N/A	N/A
EAS Message: ⁹		N/A	N/A	1110	1109	N/A	N/A	N/A
Protective Action Recommendation ¹⁰ Evacuation of Sub-Areas:								
Protective Action Decision: ¹¹								
Siren Activation: ⁸								
EAS Message: ⁹								
KI Administration Emergency Workers and Immobile Populations Decision (SEOC/REAC)/Implementation (UAC/Countries)		N/A	N/A	0930	0930	N/A	N/A	N/A

APPENDIX C: Exercise Evaluation Team

EXERCISE DATE: March 1, 2022

SITE: Braidwood Station

Exercise Management	Name	Agency/ Organization
Chair, Regional Assistance Committee	Sean O’Leary	DHS/FEMA
Exercise Director	Stephen Tulley	DHS/FEMA
Illinois Site Specialist	Curtis Williams	DHS/FEMA
Team Leader – Grundy County	David Persaud	DHS/FEMA
Team Leader – Kankakee County	Angela Cloutier	DHS/FEMA
Team Leader – Will County	James King	DHS/FEMA
Contractor Evaluator Support – Regional Coordinator	John Wills	ICF

Evaluated Off-Site Response Organizations/Locations	Evaluator	Agency/ Organization
State of Illinois		
State of Illinois – EOC	Todd Gemskie	DHS/FEMA
State of Illinois – JIC	Todd Gemskie	
Illinois State Police District 21 HQ – TAC/DCO Briefing	Curtis Williams	
Illinois State Police District 21 HQ – TAC/DCO Interview	David Persaud	
Grundy County		
Relocation, Reentry, Return (RRR)	David Persaud	DHS/FEMA
Kankakee County		
Initial Warning Point	Don Carlton	ICF
Emergency Operations Center	Brian Reinhart	DHS/FEMA
Emergency Operations Center	Brett Beardsley	DHS/FEMA
Emergency Operations Center	Marynette Herndon	ICF
Emergency Operations Center	Todd Lawson	DHS/FEMA
Kankakee County Sheriff’s TACP	Teri Englehart	ICF
Kankakee County Sheriff’s DCO Briefing	Don Carlton	ICF
Radio Station WVLI	Marynette Herndon	ICF
Relocation, Reentry, Return (RRR)	Marynette Herndon	ICF
Will County		
Initial Warning Point	Debra Schneck	DHS/FEMA
Emergency Operations Center	Peter Judge	ICF
Emergency Operations Center	Richard Smith	ICF

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Emergency Operations Center	John Wills	ICF
Emergency Operations Center	Cheryl Weaver	ICF
Will County Sheriff TACP	Jim Greer	ICF
Will County Sheriff DCO Briefing	Debra Schneck	DHS/FEMA
Radio Station WJOL/WSSR/WCCQ/WRXQ	John Wills	ICF
Relocation, Reentry, Return (RRR)	John Wills	ICF

APPENDIX D: Acronyms

ACRONYM	DESCRIPTION
ARC	American Red Cross
CST	Central Standard Time
CFR	Code of Federal Regulations
DCO	Dosimetry Control Officer
DHS	Department of Homeland Security
DLR	Dosimeter of Legal Record
DRD	Direct Reading Dosimeter
EAS	Emergency Alert System
ECL	Emergency Classification Level
EMA	Emergency Management Agency
EM	Emergency Management
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPZ	Emergency Planning Zone
FEMA	Federal Emergency Management Agency
ICF	ICF International
IDOT	Illinois Department of Transportation
IEMA	Illinois Emergency Management Agency
ILEAS	Illinois Law Enforcement Alarm System
IPAWS	Integrated Public Alert and Warning System
IPRA	Illinois Plan for Radiological Accidents
ISP	Illinois State Police
JIC	Joint Information Center
KI	Potassium Iodide
MERCI	Medical Emergency Radio Communications for Illinois
MRT	Medical Radiation Technician
NARS	Nuclear Accident Reporting System
NRC	Nuclear Regulatory Commission
NUREG	Nuclear Regulatory Guide
ORO	Off-site Response Organization
PAD	Protective Action Decision
PAR	Protective Action Recommendation
PIO	Public Information Officer
RAC	Regional Assistance Committee
RCO	Radiation Control Officer
REA	Radiation Emergency Area
REAC	Radiological Emergency Assessment Center
REP	Radiological Emergency Preparedness
RRG	Radiological Response Group

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SAE	Site Area Emergency
SEOC	State Emergency Operations Center
SOP	Standard Operating Procedure
TAC	Traffic and Access Control
TSC	Technical Support Center
UAC	Unified Area Command

APPENDIX E: Extent-of-Play Agreements

STATE OF ILLINOIS EXTENT-OF-PLAY AGREEMENT

FOR THE BRAIDWOOD EXERCISE March 1st, 2022

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: 1.e.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 4.a.3, 4.b.1, 4.c.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chair of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

NOTE: If the exercise scenario, or related exercise play, does not prompt specific criteria-related actions, individual criteria may be addressed through a functional interview or alternative scenario-driven task demonstration. When utilized, this process will be done in a manner not to disrupt or interfere with normal exercise play.

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

Criterion 1.a.1: OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner.

The State Emergency Operations Center (SEOC), and the IEMA Communications Center (24-hour Warning Point) will be partially activated to support state and county-level exercise participation but will not be evaluated. REAC will be activated for training purposes but will not be evaluated.

The utility will issue a NARS to both the state and counties simultaneously via electronic (computer-based) notification. A follow-up state NARS may be issued to the counties after further assessment utilizing the existing EMNet system and related telephone-based processes.

The Unified Area Command (UAC) and Radiological Response Group (RRG) may activate for training purposes but will not be evaluated, SIMCELLs will be established to support county-level exercise play. IEMA personnel will be prepositioned in the local area and dispatched to the county Emergency Operation Centers (EOCs). They may also support the Emergency Operation Facility (EOF), Technical Support Center (TSC) and the Joint Information Center (JIC) to support for training purposes and to support exercise play but will not be evaluated.

An actual phone call will be made to the FEMA Duty Officer advising him/her of the situation at Braidwood Station. Follow up calls to FEMA will be simulated.

The prepositioned state staff will begin exercise play no earlier than the Alert.

Criterion 1.b.1: Facilities are sufficient to support the emergency response.

This criterion will not be evaluated during this exercise.

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

Coordination may be demonstrated but only to the extent to support county EOC exercise play, and for internal training purposes, but will not be evaluated. REAC will demonstrate the ability to direct & control emergency response activities and coordination with SEOC, RRG, JIC (and/or their SIMCELLs) and county EOCs but will not be evaluated.

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.

This criterion will not be evaluated during this exercise.

Criterion 1.e.1: Equipment, maps, displays, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations.

~~This criterion will not be evaluated during this exercise.~~ A DCO briefing/Traffic and Access Control (TAC) interview will be conducted by the Illinois State Police on March 2nd at 10:00 a.m. (confirmed) at the ISP District 21 Headquarters. During this event, the availability of dosimetry will be demonstrated. No more than 10% of ISP District 21 dosimetry kits will be inspected during the interview to confirm serial numbers.

Dosimetry Control Officer (DCO) logs will be available in each county EOC to support county-level exercise play and evaluation.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.

This criterion has been successfully demonstrated will not be evaluated during this exercise.

The authorization process for an emergency worker to exceed the administrative limit will not be demonstrated during this exercise.

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions.

The REAC will evaluate the licensee information and complete independent dose projections based on that information and simulated field monitoring data. REAC will evaluate the data and make a

protective action recommendation (PAR) to the SEOC. SEOC (or SEOC SIMCELL) participation will be limited to supporting REAC and county-level exercise play but will not be evaluated.

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).

SEOC (or SEOC SIMCELL) participation will be limited to supporting REAC and county-level exercise play but will not be evaluated.

The coordination to determine PARs based upon available shelters, evacuation time estimates, and other relevant factors will be demonstrated between the SEOC (SIMCELL) and REAC as necessary to support exercise play. The state PAR will be transmitted to the county EOCs via NARS.

Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of people with disabilities and those with access/functional needs.

The decision-making process to recommend the use of KI to institutionalized persons will be supported by REAC to the extent necessary to support exercise play. SEOC (or SIMCELL) participation will be limited to supporting REAC and county-level exercise play but will not be evaluated.

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.

This criterion will not be demonstrated during this exercise.

Criterion 2.e.1: Timely post-plume phase re-location, re-entry and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the OROs plan and/or procedures.

This criterion will not be demonstrated by the state during this exercise but will support this criterion at participating counties.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

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

~~This criterion will not be demonstrated during this exercise.~~ A DCO briefing/Traffic and Access Control (TAC) interview will be conducted by Illinois State Police District 21 during an out-of-sequence interview on Wednesday, March 2nd at 10:00 AM (confirmed) at District 21 Headquarters in Ashkum.

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

This criterion will not be evaluated during this exercise.

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

This criterion does not apply to the State of Illinois.

Criterion 3.c.2: OROs/School officials decide upon and implement protective actions for schools.

This criterion does not apply to the State of Illinois.

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.

~~This criterion will not be demonstrated during this exercise.~~ A DCO briefing/Traffic and Access Control (TAC) interview will be conducted by Illinois State Police District 21 during an out-of-sequence interview on Tuesday, April 5th at 9:00 AM (confirmed) at District 21 Headquarters in Ashkum.

Criterion 3.d.2: Impediments to evacuation are identified and resolved.

This criterion will not be demonstrated during this exercise.

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

This criterion will not be demonstrated during this exercise.

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.

This criterion will not be demonstrated during this exercise.

Criterion 3.f.1: Decisions regarding controlled re-entry, relocation, and return of individuals during the post-plume phase are coordinated with appropriate organizations and implemented.

This criterion will not be demonstrated by the state during this exercise but will support this criterion at participating counties.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

Criterion 4.a.1: [RESERVED]

Criterion 4.a.2: Field teams (2 or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure.

RRG will provide a sim cell to support exercise needs but they will not be evaluated.

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.

RRG will provide a sim cell to support exercise needs but they will not be evaluated.

Criterion 4.b.1: The field teams demonstrate the capability to make appropriate measurements and to collect samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making.

RRG will provide a sim cell to support exercise needs but they will not be evaluated.

Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions.

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance.

This criterion does not apply to the State of Illinois.

Criterion 5.a.2: [RESERVED]

Criterion 5.a.3: Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system.

This criterion does not apply to the State of Illinois.

Criterion 5.a.4: Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation.

This criterion does not apply to the State of Illinois.

Criterion 5.b.1: OROs provide accurate emergency information and instructions to the public and the news media in a timely manner.

The JIC may be activated in Warrenville and Springfield for training purposes and to support state, county and utility-level exercise play, however the state will not be evaluated for this criterion.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

Criterion 6.a.1: The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees.

This criterion will not be evaluated during this exercise.

Criterion 6.b.1: The facility/ORO has adequate procedures and resources to accomplish monitoring and decontamination of emergency workers and their equipment and vehicles.

This criterion will not be evaluated during this exercise.

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.

This criterion will not be evaluated during this exercise.

Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals.

This criterion will be demonstrated during an out of sequence drill conducted (TBD).

GRUNDY COUNTY EXTENT-OF-PLAY AGREEMENT

FOR THE BRAIDWOOD STATION EXERCISE March 1st, 2022

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: 1.e.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 4.a.3, 4.b.1, 4.c.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chair of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

NOTE: If the exercise scenario, or related exercise play, does not prompt specific criteria-related actions, individual criteria may be addressed through a functional interview or alternative scenario-driven task demonstration. When utilized, this process will be done in a manner not to disrupt or interfere with normal exercise play.

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

Criterion 1.a.1: OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner.

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the state, Will County, Kankakee County and the utility. IEMA will provide a representative(s) at the Grundy County EOC, but they will not be evaluated. A FEMA observer is requested in the Grundy County EOC to provide feedback to county EOC participants.

Criterion 1.b.1: Facilities are sufficient to support the emergency response.

This criterion will not be demonstrated during this exercise.

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the state, Will County, Grundy County, and the utility.

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the State, Will County, Grundy County and the utility.

Communication systems may be discussed, but not demonstrated, during the school EV-2 interviews.

Criterion 1.e.1: Equipment, maps, displays, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations.

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to the level necessary to support the exercise play of the State, Will County, Grundy County and the utility.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.

This criterion does not apply to Grundy County.

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions.

This criterion does not apply to Grundy County.

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the state, Will County, Kankakee County and the utility.

Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of people with disabilities and those with access/functional needs.

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the state, Will County, Kankakee County and the utility.

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.

This criterion does not apply to Grundy County.

Criterion 2.e.1: Timely post-plume phase re-location, re-entry and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the OROs plan and/or procedures.

~~This criterion will not be demonstrated during this exercise.~~ The Grundy County EOC staff will demonstrate this criterion through discussions within the Grundy County EOC after completion of the plume phase portion of the exercise. The controller will provide a presentation with potential re-entry, return and re-locations (RRR) areas. Grundy County participants will discuss RRR-related implementation issues and tasks, areas of responsibility, as well as coordination of resources and

RRR related information and decision making. The State will participate to the extent necessary to support Grundy County through the IEMA DNS Liaison and REAC SIMCELL.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

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

This criterion will not be evaluated in the EOC; however, Grundy County will participate for training purposes and to support the exercise play of the State, Will County, Kankakee County and the utility.

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

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the State, Will County, Kankakee County and the utility.

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

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the State, Will County, Kankakee County and the utility.

Criterion 3.c.2: OROs/School officials decide upon and implement protective actions for schools.

This criterion will not be demonstrated during this exercise.

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the state, Will County, Kankakee County and the utility.

Criterion 3.d.2: Impediments to evacuation are identified and resolved.

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the State, Will County, Kankakee County and the utility.

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

This criterion does not apply to Grundy County.

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.

This criterion does not apply to Grundy County.

Criterion 3.f.1: Decisions regarding controlled re-entry, relocation, and return of individuals during the post-plume phase are coordinated with appropriate organizations and implemented.

~~This criterion will not be demonstrated during this exercise.~~ The Grundy County EOC staff will demonstrate this criterion through discussions within the Grundy County EOC after completion of the plume phase portion of the exercise. The controller will provide a presentation with potential re-entry, return and re-locations (RRR) areas. Grundy County participants will discuss RRR-related implementation issues and tasks, areas of responsibility, as well as coordination of resources and RRR related information and decision making. The State will participate to the extent necessary to support Grundy County through the IEMA DNS Liaison and REAC SIMCELL.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

This evaluation area does not apply to Grundy County.

EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance.

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the State, Will County, Kankakee County and the utility.

Criterion 5.a.2: [RESERVED]

Criterion 5.a.3: Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system.

This criterion will not be demonstrated during this exercise.

Criterion 5.a.4: Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation.

This criterion does not apply to Grundy County.

Criterion 5.b.1: OROs provide accurate emergency information and instructions to the public and the news media in a timely manner.

This criterion will not be evaluated; however, Grundy County will participate for training purposes and to support the exercise play of the state, Will County, Kankakee County and the utility.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Grundy County.

WILL COUNTY EXTENT-OF-PLAY AGREEMENT

FOR THE BRAIDWOOD STATION EXERCISE March 1st, 2022

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: 1.e.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 4.a.3, 4.b.1, 4.c.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chair of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

NOTE: If the exercise scenario, or related exercise play, does not prompt specific criteria-related actions, individual criteria may be addressed through a functional interview or alternative scenario-driven task demonstration. When utilized, this process will be done in a manner not to disrupt or interfere with normal exercise play.

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

Criterion 1.a.1: OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner.

Will County intends to fully activate the Emergency Operations Center (EOC) in Joliet, Illinois. The County will implement notification procedures as defined in IPRA-Braidwood. Representatives from IEMA and Exelon will staff the county EOC but will not be pre-positioned in the EOC. A roster will be provided to demonstrate 24-hour staffing of the EOC. The roster will be available for review; however, it will not be removed from the EOC.

The utility may issue a NARS to both the state and counties simultaneously via electronic (computer-based) notification. A follow-up state NARS may be issued to the counties after further assessment utilizing the existing EMNet system and related telephone-based processes. The NARS line will be answered at both the county 24-hour warning point and the county EOC.

An evaluator will be positioned at the County Sheriff's Communications Center (24-hour warning point) at the start of the exercise.

Criterion 1.b.1: Facilities are sufficient to support the emergency response.

This criterion **will** be evaluated during this exercise at the Will County EOC on Tuesday, March 1st, at 8:00 am.

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

Decision making will be demonstrated at the Will County EOC. Coordination of decisions and emergency activities will be demonstrated between Will County, SEOC, UAC and JIC, and between the county and municipalities within the EPZ. Coordination between Will County, Grundy County and Kankakee County will be demonstrated.

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.

Will County will utilize multiple communication systems to communicate with departments and agencies at other locations. Possible systems include commercial telephone, cell phone, radio, electronic mail, internet-based systems and/or telefax.

This criterion will be demonstrated during the traffic and access control demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the Will County EOC.

Criterion 1.e.1: Equipment, maps, displays, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations.

Will County will demonstrate the ability to support operations through the use of maps, status boards and other displays as appropriate. Dosimetry Control Logs will be available from the IEMA Radiological Advisor in the Will County EOC. The availability of dosimetry and KI will be demonstrated at the county EOC during the traffic and access control demonstration.

This criterion will be demonstrated during the traffic and access control demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the Will County EOC.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.

This criterion does not apply to Will County.

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions.

This criterion does not apply to Will County.

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).

The State of Illinois will make PADs to Will County officials in the county EOC. The Will County officials will make the final decision regarding what protective actions will be recommended to the public.

Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of people with disabilities and those with access/functional needs.

The State of Illinois will make PARs to Will County officials in the County EOC. The Will County officials will make the final decision regarding what protective actions will be recommended for groups of people with disabilities and those with access/functional needs.

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.

This criterion does not apply to Will County.

Criterion 2.e.1: Timely post-plume phase re-location, re-entry and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the OROs plan and/or procedures.

The Will County EOC staff will demonstrate this criterion through discussions within the Will County EOC after completion of the plume phase portion of the exercise. The controller will provide a presentation with potential re-entry, return and re-locations (RRR) areas. Will County participants will discuss RRR-related implementation issues and tasks, areas of responsibility, as well as coordination of resources and RRR related information. The State will participate to the extent necessary to support Will County through the IEMA DNS Liaison and REAC SIMCELL.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

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

Will County will demonstrate this criterion by close coordination with the IEMA Radiological Advisor and timely dissemination and exchange of information within the County Dosimetry Control Officer (DCO) network. Exercise messages will be injected which will ensure the opportunity to demonstrate this criterion in the County EOC.

The authorization process for an emergency worker to exceed the administrative limit will not be demonstrated during this exercise.

This criterion will be demonstrated during the traffic and access control demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the Will County EOC.

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

When notified by the State of Illinois to distribute and administer KI, Will County officials will discuss the issuance of KI and immobile populations, as a voluntary measure, and will notify the municipalities of the State's recommendation.

The State of Illinois will make an announcement through the JIC of the appropriate time for the public to consider voluntarily taking KI. However, the JIC will not be evaluated during this exercise.

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

This will be demonstrated by Will County through the simulated implementation of the appropriate procedures. The appropriate officials will coordinate transportation and receiving facilities for people with disabilities and those with access/functional needs other than schools within areas subject to protective actions. One of each type of special facility will be contacted during the exercise. One of each type of transportation provider (ambulance/bus) will be contacted during the exercise. The public will not be involved in the demonstration.

The Mobility Impaired List/Cards will be available for inspection in the county EOC during the exercise. The evaluator will not be allowed to remove the list/cards from the EOC.

Criterion 3.c.2: OROs/School officials decide upon and implement protective actions for schools.

Will County officials will demonstrate this capability through the simulated implementation of the appropriate procedures in the County EOC. Accommodations for school children that live within the EPZ but attend school outside the EPZ will be demonstrated during the exercise by interview with the Regional Office of Education Superintendent in the county EOC. The EPZ schools and transportation providers will be contacted during the exercise.

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.

Coordination between Will County agencies designated to provide traffic and access control will be exhibited in the County EOC. A Sheriff's deputy will be available during the exercise to simulate the staffing of one post. The post for the demonstration will be selected by Will County during the exercise based on exercise play. The deputy will not be asked to drive to the selected post location for the demonstration; the selected post will be simulated. The staffing of the remaining posts will be simulated.

Criterion 3.d.2: Impediments to evacuation are identified and resolved.

The Will County EOC staff will demonstrate the capability to identify and take appropriate actions concerning impediments to evacuation. A message will be injected by the Controller that will drive this demonstration. County personnel will address the impediment by identifying the equipment needed, discussing its estimated time of arrival, etc. Actual contacts with resource providers will be made and logged. The impediment information will also be coordinated into public messaging (i.e., via media briefing, notifying the JIC, etc.) to communicate alternative routes to potential evacuees.

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

This criterion does not apply to Will County.

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.

This criterion does not apply to Will County.

Criterion 3.f.1: Decisions regarding controlled re-entry, relocation, and return of individuals during the post-plume phase are coordinated with appropriate organizations and implemented.

The Will County EOC staff will demonstrate this criterion through discussions within the Will County EOC after completion of the plume phase portion of the exercise. The controller will provide a presentation with potential re-entry, return and re-locations (RRR) areas. Will County participants will discuss RRR-related implementation issues and tasks, areas of responsibility, as well as coordination of resources and RRR related information and decision making. The State will participate to the extent necessary to support Will County through the IEMA DNS Liaison and REAC SIMCELL.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

This evaluation area does not apply to Will County.

EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance.

Will County will demonstrate the capability to provide both an alert signal and an initial instructional message to populated areas throughout the 10-mile plume pathway EPZ in a timely manner after their decision to activate the alert and notification system to implement protective action decision (PAD).

This capability will be demonstrated out-of-sequence through activation of the Braidwood Station EPZ outdoor warning sirens as part of the monthly siren check on Tuesday, March 1st at 10:00 am. The outdoor warning sirens will not be activated during the exercise, and their activation will be simulated in-sequence during exercise play at the Will County EOC. Every effort will be taken by controllers, evaluators and players to avoid inadvertent activation of sirens or emergency messaging systems.

The ability to provide instructions to the public will be demonstrated through the simulated activation of the local radio station (WJOL/WSSR/WCCQ/WRXQ). The local radio station will be contacted during the first, and possibly the second, alert and notification sequence. An evaluator and controller will be positioned at the radio station during the exercise to monitor for a message containing a PAR.

The IEMA Controller will terminate the demonstration if the demonstration interferes with the radio station's daily operations.

Coordination between Will County, Grundy County and Kankakee County will be demonstrated.

Criterion 5.a.2: [RESERVED]

Criterion 5.a.3: Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system.

This criterion will not be demonstrated during this exercise.

Criterion 5.a.4: Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation.

This criterion does not apply to Will County.

Criterion 5.b.1: OROs provide accurate emergency information and instructions to the public and the news media in a timely manner.

Will County will demonstrate this criterion by using pre-scripted messages as indicated in IPRA-Braidwood. Contact with the radio station will be simulated for each alert and notification sequence following the sequence issuing the initial PAR.

The ability to provide information to the media will be demonstrated by Will County through briefings held at the Will County media briefing location. If real media are not present for the briefings, the controller will serve as mock media. Evaluators will not serve as mock media.

The ability to address rumors will be demonstrated by Will County through coordination between the county EOC and the JIC. The Will County EOC controller will inject exercise messages that will ensure the opportunity to demonstrate this criterion. County officials will investigate and address rumors. If appropriate, the rumors will be coordinated between state and county officials in the County EOC and the JIC. Rumors identified will be shared with the JIC.

County emergency broadcast messages and news releases, if issued, will be provided to the JIC.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Will County.

KANKAKEE COUNTY EXTENT-OF-PLAY AGREEMENT

FOR THE BRAIDWOOD STATION EXERCISE March 1st, 2022

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: 1.e.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 4.a.3, 4.b.1, 4.c.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chair of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

NOTE: If the exercise scenario, or related exercise play, does not prompt specific criteria-related actions, individual criteria may be addressed through a functional interview or alternative scenario-driven task demonstration. When utilized, this process will be done in a manner not to disrupt or interfere with normal exercise play.

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

Criterion 1.a.1: OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner.

Kankakee County intends to fully activate the Emergency Operations Center (EOC) in Kankakee, Illinois. The County will implement notification procedures as defined in IPRA-Braidwood. Notifications will be made from the 24-hour warning point and the EOC. Representatives from IEMA and Exelon will staff the County EOC but will not be pre-positioned in the EOC. A roster will be provided to demonstrate 24-hour staffing of the EOC. The roster will be available for review; however, it will not be removed from the EOC.

The utility may issue a NARS to both the state and counties simultaneously via electronic (computer-based) notification. A follow-up state NARS may be issued to the counties after further assessment utilizing the existing EMNet system and related telephone-based processes. The NARS line will be answered at both the county 24-hour warning point and the county EOC.

An evaluator will be positioned at the County Sheriff's Communications Center (24-hour warning point) and the EOC at the start of the exercise.

Criterion 1.b.1: Facilities are sufficient to support the emergency response.

This criterion **will** be evaluated during this exercise at the Kankakee County EOC and initial warning point (KanComm) on March 1st at 8:00 am at each facility.

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

Decision making will be demonstrated at the Kankakee County EOC. Coordination of decisions and emergency activities will be demonstrated between Kankakee County, SEOC, UAC and JIC,

and between the county and municipalities within the EPZ. Coordination between Will County, Grundy County and Kankakee County will be demonstrated.

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.

Kankakee County will utilize multiple communication systems to communicate with departments and agencies at other locations. Possible systems include commercial telephone, cell phone, radio, electronic mail, internet-based systems (such as WebEOC) and/or telefax.

This criterion will be demonstrated during the traffic and access control demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the Kankakee County EOC.

Criterion 1.e.1: Equipment, maps, displays, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations.

Kankakee County will demonstrate the ability to support operations through the use of maps, status boards and other displays as appropriate. Dosimetry Control Logs will be available from the IEMA Radiological Advisor in the Kankakee County EOC. The availability of dosimetry and KI will be demonstrated at the County EOC, during the traffic and access control demonstration.

This criterion will be demonstrated during the traffic and access control demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the Kankakee County EOC.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.

This criterion does not apply to Kankakee County.

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions.

This criterion does not apply to Kankakee County.

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).

The State of Illinois will make PARs to Kankakee County officials in the county EOC. The Kankakee County officials will make the final decision regarding what protective actions will be recommended to the public.

Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of people with disabilities and those with access/functional needs.

The State of Illinois will make PARs to Kankakee County officials in the County EOC. The Kankakee County officials will make the final decision regarding what protective actions will be recommended for groups of people with disabilities and those with access/functional needs.

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.

This criterion does not apply to Kankakee County.

Criterion 2.e.1: Timely post-plume phase re-location, re-entry and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the OROs plan and/or procedures.

The Kankakee County EOC staff will demonstrate this criterion through discussions within the Kankakee County EOC after completion of the plume phase portion of the exercise. The controller will provide a presentation with potential re-entry, return and re-locations (RRR) areas. Kankakee County participants will discuss RRR-related implementation issues and tasks, areas of responsibility, as well as coordination of resources and RRR related information and decision making. The State will participate to the extent necessary to support Kankakee County through the IEMA DNS Liaison and REAC SIMCELL.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

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

Kankakee County will demonstrate this criterion by close coordination with the IEMA Radiological Advisor and timely dissemination and exchange of information within the County Dosimetry Control Officer (DCO) network. Exercise messages will be injected which will ensure the opportunity to demonstrate this criterion in the County EOC.

The authorization process for an emergency worker to exceed the administrative limit will not be demonstrated during this exercise.

This criterion will be demonstrated during the traffic and access control demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the Kankakee County EOC.

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

When notified by the state of Illinois to distribute and administer KI, Kankakee County officials will discuss the issuance of KI to immobile populations, as a voluntary measure, and will notify the municipalities of the State's recommendation.

The State of Illinois will make an announcement through the JIC of the appropriate time for the public to consider voluntarily taking KI. However, the JIC will not be evaluated during this exercise.

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

This will be demonstrated by Kankakee County through the simulated implementation of the appropriate procedures. The appropriate officials will coordinate transportation and receiving facilities for people with disabilities and those with access/functional needs other than schools within areas subject to protective actions. One of each type of special facility will be contacted during the exercise. One of each type of transportation provider (ambulance/bus) will be contacted during the exercise. The public will not be involved in the demonstration.

The Mobility Impaired List/Cards will be available for inspection in the county EOC during the exercise. The evaluator will not be allowed to remove the list/cards from the EOC.

Criterion 3.c.2: OROs/School officials decide upon and implement protective actions for schools.

There are no schools located within the 10 mile EPZ in Kankakee County. Accommodations for school children that live within the EPZ but attend school outside the EPZ will be demonstrated during the exercise by interview with the Regional Office of Education Superintendent in the county EOC.

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.

Coordination between Kankakee County agencies designated to provide traffic and access control will be exhibited in the County EOC. A Sheriff's deputy will be available during the exercise to simulate the staffing of one post. The post for the demonstration will be selected by Kankakee County during the exercise based on exercise play. If this evaluation is done out of sequence to exercise play, the controller will determine the post. The deputy will not be asked to drive to the selected post location for the demonstration; the selected post will be simulated. The staffing of the remaining posts will be simulated.

Criterion 3.d.2: Impediments to evacuation are identified and resolved.

The Kankakee County EOC staff will demonstrate the capability to identify and take appropriate actions concerning impediments to evacuation. A message will be injected by the Controller that will drive this demonstration. County personnel will address the impediment by identifying the equipment needed, discussing its estimated time of arrival, etc. Actual contacts with resource providers will be made and logged. The impediment information will also be coordinated into public messaging (i.e., via media briefing, notifying the JIC, etc.) to communicate alternative routes to potential evacuees.

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

This criterion does not apply to Kankakee County.

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.

This criterion does not apply to Kankakee County.

Criterion 3.f.1: Decisions regarding controlled re-entry, relocation, and return of individuals during the post-plume phase are coordinated with appropriate organizations and implemented.

The **Kankakee** County EOC staff will demonstrate this criterion through discussions within the **Kankakee** County EOC after completion of the plume phase portion of the exercise. The controller will provide a presentation with potential re-entry, return and re-locations (RRR) areas. Kankakee County participants will discuss RRR-related implementation issues and tasks, areas of responsibility, as well as coordination of resources and RRR related information and decision making. The State will participate to the extent necessary to support **Kankakee** County through the IEMA DNS Liaison and REAC SIMCELL.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

This evaluation area does not apply to Kankakee County.

EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance.

Kankakee County will demonstrate the capability to provide both an alert signal and an initial instructional message to populated areas throughout the 10-mile plume pathway EPZ in a timely manner after their decision to activate the alert and notification system to implement protective action decision (PAD).

This capability will be demonstrated only through an interview with personnel responsible for activation of the Braidwood Station EPZ outdoor warning sirens as defined in IPRA-Braidwood at, or prior to the start of the exercise. The outdoor warning sirens will not be activated during the exercise. Every effort will be taken by controllers, evaluators and players to avoid inadvertent activation of sirens or emergency messaging systems.

The ability to provide instructions to the public will be demonstrated through the simulated activation of the local radio station (WVLI). The local radio station will be contacted during the first, and possibly the second, alert and notification sequence. An evaluator and controller will be positioned at the radio station during the exercise to monitor for a message containing a PAR.

The IEMA Controller will terminate the demonstration if the demonstration interferes with the radio station's daily operations.

Coordination between Will County, Grundy County and Kankakee County will be demonstrated.

Criterion 5.a.2: [RESERVED]

Criterion 5.a.3: Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system.

This criterion will not be demonstrated during this exercise.

Criterion 5.a.4: Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation.

This criterion does not apply to Kankakee County.

Criterion 5.b.1: OROs provide accurate emergency information and instructions to the public and the news media in a timely manner.

Kankakee County will demonstrate this criterion by using pre-scripted messages as indicated in IPRA-Braidwood. Contact with the radio station will be simulated for each alert and notification sequence following the sequence issuing the initial PAR.

The ability to provide information to the media will be demonstrated by Will County through briefings held at the Kankakee County media briefing location. If real media are not present for the briefings, the controller will serve as mock media. Evaluators will not serve as mock media.

The ability to address rumors will be demonstrated by Kankakee County through coordination between the county EOC and the JIC. The Kankakee County EOC controller will inject exercise messages that will ensure the opportunity to demonstrate this criterion. County officials will investigate and address rumors. If appropriate, the rumors will be coordinated between state and county officials in the county EOC and the JIC. Rumors identified will be shared with the JIC.

County emergency broadcast messages and news releases, if issued, will be provided to the JIC.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Kankakee County

APPENDIX F: Onsite/Offsite Scenario Timeline

Initial Conditions		
Unit 1	Common	Unit 2
99.9% Power - 1249 MWe - 399 Days Online Equipment OOS: None Major Evolutions: None OLR Risk – Green Protected Equipment: U1 FC Pump	Equipment OOS: None Major evolutions scheduled – None Protected FC Train: Unit 1 - Spent Fuel Pool time to 200F upon loss of cooling: 15.1 Hours Protected Equipment: None	99.9% Power - 1222 MWe - 189 Days Online Equipment OOS: - None Major Evolutions: None OLR – Green Protected Equipment: U2 FC Pump
T=0	0800	Start Scenario Wind direction – from 17 degrees, 11 mph, Stability Class D
T=5	0805	<p>ALERT, MA5 Hazardous event affecting a SAFETY SYSTEM required for the current operating mode.</p> <ul style="list-style-type: none"> • Earthquake occurs which will cause the 1A CD/CB amps to rise to 300 amps. Also, a failure of SAT 142-1 and fault on BUS 141 will occur at this time. • The earthquake and loss of power will result in the auto start of CV PUMP B, with indication of high running current (T=0 for MA5). Approximately 3 minutes later, a report from the field will confirm degraded performance/damage to 1B CV PUMP (CR-1, IP-1) [MM / CMO Task]. The crew is expected to leave 1B CV Pump in operation. • The crew is expected to perform a controlled shutdown iaw 1BwGP 100-4 as directed by 1BwOA ENV-4 due to the Operating Basis earthquake and also due to the TS 3.0.3 entry. • If dispatched to the AEER, an operator will report Operating Basis Earthquake LED lit on 0PA02J (concurrent HU4). • Loss of power affects: A train ESF equipment (i.e., CV pump, RH pump, SI pump, CC pump, SX pump) • Additionally, the following rad monitors will lose power: 0AR55 (Fuel Handling Incident area rad monitor), 0PR31/32/35/36 (Control Room Intake process monitors), 1AR11 (Containment Fuel Handling Incident (West S/G Shield Wall), 1AR20 (High Range Containment Unit 1), 1AR22 (MSL area rad monitors), 1PR30 (Aux. Building Vent Stack (WRGM)) • ERO activation (CM-2) • PA Announcement for ALERT Classification (CM-3)

T=50	~0850	<ul style="list-style-type: none"> • Command and Control Turnover • OSC teams are dispatched to assess loss of power; degraded equipment and effects of the earthquake.
T=70	0910	<ul style="list-style-type: none"> • 1D Steam Generator (SG) feedline break outside of CNMT downstream of the 1FW009D (D SG FW Isolation Valve located in A/D MSIV Room) will occur simultaneously with a FWI. 1D SG is FAULTED but not RUPTURED. There are no indications of a radiological release. • Should see power rise. Steam pressure will lower in 1D SG. Pressurizer (PZR) pressure/level should also lower. Fire alarm will actuate for that space due to feedwater flashing to steam. • All (4) MSL radiation monitor to fail - spike then decrease due to presence of steam/high temperatures in space. Team should recognize that no steam generator tube rupture (SGTR) is occurring. • Crew should manually trip the reactor. • Investigate fault on Bus 141 [EM Task] • Investigate failure of SAT 142-1 [EM Task] • Investigate 1D SG feedline break [MM Task]

T=80	0920	<p>SITE AREA EMERGENCY, FS1 Loss or Potential Loss of ANY two barriers.</p> <p>Potential Losses of RCS (RC2) and Fuel Clad (FC2.3) based on: Heat Sink CSF - Red Path conditions exist and heat sink is required.</p> <ul style="list-style-type: none"> • 1B Aux Feedwater pump trip (causing a RED path in Heat Sink) T=0 With no S/G > 10% NR level and no AFP's running this constitutes a RED path in Heat Sink. • The crew is expected to take actions to exit the Heat Sink RED Path. • No radiological release will be in progress • 1B AF pump trips - Investigate 1B AF pump failure [MM Task] • Site Accountability Simulated (SEC-1 / SEC-2) • Containment pressure will slowly increase (~ 2 psig) because of a loss of containment cooling (containment chillers trip on SI after SX to the VP chillers is bypassed and isolated) and later because the PRT rupture disc ruptures following many cycles of the Pressurizer PORVs relieving to the PRT during the loss of heat sink event. • Adequate core cooling is maintained; there are no indications of core damage.
T=~190	~1110	<ul style="list-style-type: none"> • Exercise Termination