

After Action Report / Improvement Plan

Exercise Date – July 20, 2021

Radiological Emergency Preparedness (REP) Program



Dresden Nuclear Power Station



FEMA

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EXECUTIVE SUMMARY

On July 20, 2021, the Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA) Region V Radiological Emergency Preparedness Program staff evaluated a Partial-Participation Plume Exposure Pathway Exercise in the Emergency Planning Zone (EPZ) for the Dresden Nuclear Power Station.

The Dresden Nuclear Power Station was located in Grundy County, Illinois. The purpose of the exercise was to assess the level of state and local preparedness in responding to an incident at Dresden Nuclear Power 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 July 30, 2019. The qualifying emergency preparedness exercise was conducted on September 30, 1981.

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

The DHS/FEMA wishes to acknowledge the efforts of the many individuals who participated in the exercise and made it a success. Approximately 78 individuals participated in the off-site portion of the exercise, including local volunteers. The professionalism and teamwork of the participants was evident throughout all phases of the exercise.

The COVID-19 Pandemic, and other disasters that occurred during the year 2020 and continued during the year 2021, presented the State of Illinois with substantial logistical and communications challenges for simultaneously developing and implementing a successful commercial nuclear power plant exercise plan in a combined virtual and physical environment. The exercise was evaluated virtually using Cisco Webex collaboration software configured by the State of Illinois Emergency Management Agency (IEMA) and Grundy and Kendall Counties to establish multiple channels, each with audio/visual, chat, and exercise-related document sharing features.

This exercise also involved extensive use of well-documented Actual Incident Credit, as well as the successful tethering and implementation of virtual technologies and logistics, to assess the state's capabilities for protecting public health and safety. These combined efforts significantly expand the REP Program's relevance and capabilities. Pursuant to the documented and ongoing COVID-19 Pandemic response, Grundy County requested and received Full Actual Incident Credit for the Evaluation Criteria 1.a.1, 1.c.1, 1.d.1, 1.e.1, and Partial Actual Incident Credit for Evaluation Criteria 2.c.1, 3.c.1, 3.c.2, 5.b.1 and Kendall County requested and received Full Actual Incident Credit for the Evaluation Criteria 1.a.1, 1.c.1, 1.d.1, 1.e.1 and Partial Actual Incident Credit for Evaluation Criteria 2.c.1, 3.c.1, 3.c.2, 5.b.1.

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SECTION 1: Exercise Overview

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

- Taking the lead in offsite emergency planning and in the review and evaluation of Radiological Emergency Preparedness Plans and procedures developed by State and local governments; and
- 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; and
- 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 the Interior.
 - U.S. Department of Transportation.
 - U.S. Environmental Protection Agency.
 - U.S. Food and Drug Administration; and
 - U.S. Nuclear Regulatory Commission.

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

A REP Partial-Participation Plume Exposure Pathway Exercise was conducted on July 20, 2021 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 Dresden Nuclear Power Station. The purpose of this exercise report is to present the exercise results and findings on the performance of the Off-Site Response Organizations (ORO) during a simulated radiological emergency.

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

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

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

1.1 EXERCISE DETAILS

EXERCISE NAME

2021 Dresden Nuclear Power Station Radiological Emergency Preparedness, Partial-Participation, Plume Exposure Pathway Exercise

TYPE OF EXERCISE

Plume Exposure Pathway

EXERCISE DATE

July 20, 2021

LOCATIONS

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

SPONSORS

Illinois Emergency Management Agency
2200 South Dirksen Parkway
Springfield IL 62703

Exelon Corporation
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

- Illinois Emergency Management Agency (IEMA)
- Illinois State Police
- Illinois State Emergency Operations Center

RISK COUNTY ORGANIZATIONS

- Grundy County Board Chair
- Grundy County Dosimetry Control Officer
- Grundy County Emergency Management Agency
- Grundy County Health Department
- Grundy County Highway Department
- Grundy County Information Technology
- Grundy County Regional Office of Education
- Grundy County Sheriff's Office
- Grundy Police Department
- KenCom (911 Dispatch Center)
- Kendall County Board Chairman
- Kendall County Emergency Management Agency
- Kendall County Health Department
- Kendall County Regional Office of Education
- Kendall County Sheriff's Office
- Kendall County Highway Department

PRIVATE ORGANIZATIONS

- American Red Cross
- Exelon Corporation
- WCSJ/WJDK Radio Station
- WSPY Radio Station

FEDERAL ORGANIZATIONS

- U.S. Department of Homeland Security
- Federal Emergency Management Agency
- U.S. Nuclear Regulatory Commission – Region III

SECTION 2: Exercise Design Summary

2.1 EXERCISE PURPOSE AND DESIGN

The Department of Homeland Security (DHS), Federal Emergency Management Agency (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 16 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 FEMA. One of the REP Program requirements established by these regulations is the biennial exercise of offsite response capabilities. During these exercises, 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 After Action Report/Improvement Plan 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 Dresden Nuclear Power Station to FEMA Region V by the State of Illinois and involved local jurisdictions occurred on November 25, 1986. Formal approval of these plans was granted by FEMA on August 5, 1987, 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 the State of Illinois, Grundy County, and Kendall County. 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.

Public Health, Healthcare, and Emergency Medical Services: Provide lifesaving medical treatment via Emergency Medical Services and related operations and avoid additional disease and injury by providing targeted public health, medical and behavioral health support, and products to all affected populations. Deliver medical countermeasures to exposed populations. Complete triage and initial stabilization of casualties and begin definitive care for those likely to survive their injuries and illnesses. Return medical surge resources to pre-incident levels, complete health assessments, and identify recovery processes.

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 3.2, Tables 3.2.1 and 3.2.2, of this report. Criteria-specific narrative summaries are presented in Section 3.3 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, Grundy County, and Kendall County. The organizations, locations, and evaluation criteria selected by the State of Illinois, Grundy County, and Kendall County are described in Appendix E, Extent-of-Play Agreements, which were approved by DHS/FEMA on June 21, 2021.

The results of the assessment are summarized below by Core Capability, as demonstrated during the July 20, 2021, Dresden Nuclear Power Station REP Partial-Participation Radiological Emergency Preparedness 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 Dresden Nuclear Power 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 simulated briefings conducted at the Grundy County EMA. 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, Grundy County EOC, and Kendall County EOC staff communicated well with the State Emergency Operations Center 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 EOCs, schools, reception centers, and other facilities would have 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, would demonstrate the ability to provide resources, services and accommodations consistent with planning guidelines. They also would be knowledgeable of the process, and how to determine whether evacuees had been monitored for contamination and determined to be acceptable before entering congregate care facilities.

Operational Communications: Grundy County and Kendall County requested and received Actual Incident Credit for Evaluation Criterion 1.d.1, which is the key criterion 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 response groups and locations and between affected communities in the impact area.

Infrastructure Systems: Evaluation Criterion 3.d.2, which is the key criterion for this capability, was assessed pursuant to the State of Illinois, Grundy County, and Kendall County capabilities to address impediments to mass evacuation. Grundy County and Kendall 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 July 20, 2021 Partial-Participation Plume Exposure Pathway Exercise and out-of-sequence interviews and demonstrations.

Each jurisdiction and functional entities 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:

1. M: Met (no unresolved Level 1 or Level 2 findings were assessed, and there were no unresolved findings from prior exercises)
2. L1: Level 1 Finding was assessed
3. L2: Level 2 Finding was assessed or an unresolved Level 2 finding(s) from a prior exercise
4. P: Plan Issue was assessed
5. NS: Not Selected (the Criterion was not selected for demonstration)
6. C: Credit (Actual Incident Credit Received)
7. PC: Partial Credit (Partial Actual Incident Credit Received)

Table 3.2.1 – Summary of Exercise Evaluation – State of Illinois

| | | | |
|---|-----------|----------------------------------|-----------------------|
| DATE: July 20, 2021 SITE: Dresden Nuclear Power Station M: Met L1: Level 1 Finding L2: Level 2 Finding NS: Not Selected C: Credit (Actual Incident) PC: Partial Credit (Actual Incident) | CRITERION | ISP District 5 – DCO Briefing | ISP District 5 – TACP |
| Emergency Operations Management | | | |
| Mobilization | 1a1 | | |
| Facilities | 1b1 | | |
| Direction and Control | 1c1 | | |
| Communications Equipment | 1d1 | | |
| Equipment and Supplies to Support Operations | 1e1 | M | M |
| Protective Action Decision-Making | | | |
| EW Exposure Control Decisions | 2a1 | | |
| PARs | 2b1 | | |
| PADs | 2b2 | | |
| PADs for Disabled/Functional Needs | 2c1 | | |
| Ingestion PADs | 2d1 | | |
| RRR Decisions | 2e1 | | |
| Protective Action Implementation | | | |
| EW Exposure Control Implementation | 3a1 | M | M |
| 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 | 6d1 | | |

Table 3.2.2 – Summary of Exercise Evaluation – Grundy County

| | | | | |
|---|-----------|--------------------------------------|---|--|
| DATE: July 20, 2021 SITE: Dresden Nuclear Power Station M: Met L1: Level 1 Finding L2: Level 2 Finding C: Credit (Actual Incident) ND: Not Demonstrated PC: Partial Credit (Actual Incident) | CRITERION | EAS Broadcast Station - WCSJ/WJDK | Grundy County Emergency Operations Center | Grundy County Initial Warning Point |
| Emergency Operations Management | | | | |
| Mobilization | 1a1 | | C | C |
| Facilities | 1b1 | | | |
| Direction and Control | 1c1 | | C | |
| Communications Equipment | 1d1 | C | C | C |
| Equipment and Supplies to Support Operations | 1e1 | | C | |
| Protective Action Decision-Making | | | | |
| EW Exposure Control Decisions | 2a1 | | | |
| PARs | 2b1 | | | |
| PADs | 2b2 | | M | |
| PADs for Disabled/Functional Needs | 2c1 | | PC | |
| Ingestion PADs | 2d1 | | | |
| RRR Decisions | 2e1 | | | |
| Protective Action Implementation | | | | |
| EW Exposure Control Implementation | 3a1 | | M | |
| KI Public/Institutionalized | 3b1 | | M | |
| PAD Implementation Disabled/Functional Needs | 3c1 | | PC | |
| PAD Implementation Schools | 3c2 | | PC | |
| TACP Establishment | 3d1 | | | |
| Impediments | 3d2 | | M | |
| 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 | 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 | 6d1 | | | |

Table 3.2.3 – Summary of Exercise Evaluation – Kendall County

| | | | | | | |
|---|-----------|--------------------------------|--|---|---|--|
| DATE: July 20, 2021 SITE: Dresden Nuclear Power Station M: Met L1: Level 1 Finding L2: Level 2 Finding C: Credit (Actual Incident) ND: Not Demonstrated PC: Partial Credit (Actual Incident) | CRITERION | EAS Broadcast Station -WSPY | Kendall County Emergency Operations Center | Kendall County Initial Warning Point | Kendall County Sheriff's Office -DCO Briefing | Kendall County Sheriff's Office -TAC Interview |
| Emergency Operations Management | | | | | | |
| Mobilization | 1a1 | | C | C | | |
| Facilities | 1b1 | | | | | |
| Direction and Control | 1c1 | | C | | | |
| Communications Equipment | 1d1 | C | C | C | C | C |
| Equipment and Supplies to Support Operations | 1e1 | | C | | C | C |
| Protective Action Decision-Making | | | | | | |
| EW Exposure Control Decisions | 2a1 | | | | | |
| PARs | 2b1 | | | | | |
| PADs | 2b2 | | M | | | |
| PADs for Disabled/Functional Needs | 2c1 | | PC | | | |
| Ingestion PADs | 2d1 | | | | | |
| RRR Decisions | 2e1 | | | | | |
| Protective Action Implementation | | | | | | |
| EW Exposure Control Implementation | 3a1 | | M | M | M | M |
| KI Public/Institutionalized | 3b1 | | M | | | |
| PAD Implementation Disabled/Functional Needs | 3c1 | | PC | | | |
| PAD Implementation Schools | 3c2 | | PC | | | |
| TACP Establishment | 3d1 | | PC | M | | |
| Impediments | 3d2 | | M | | | |
| 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 | M | M | | | |
| RESERVED | 5a2 | | | | | |
| Backup Alert & Notification | 5a3 | | | | | |
| Exception Area Alerting | 5a4 | | | | | |
| Subsequent Information & Instructions | 5b1 | | PC | | | |
| Support Operations and Facilities | | | | | | |
| Reception Center Operations | 6a1 | | | | | |
| EW Monitoring & Decontamination | 6b1 | | | | | |
| Congregate Care | 6c1 | | | | | |
| Contaminated Injured | 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, and 3.2.3.

3.3.1 State of Illinois

3.3.1.1 Illinois State Police District 5 – 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 5 - TACP

Criterion 3.a.1 – 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

In summary, the status of DHS/FEMA-evaluated core capabilities and criteria for the State of Illinois is as follows:

- a. MET: All Core Capabilities and Evaluation Criteria identified in the DHS/FEMA-approved extent-of-play agreement.
- b. LEVEL 1 FINDINGS: NONE
- c. LEVEL 2 FINDINGS: NONE
- d. PLAN ISSUES: NONE
- e. PRIOR ISSUES – RESOLVED: NONE
- f. PRIOR ISSUES – UNRESOLVED: NONE

3.3.2 Risk Jurisdiction – Grundy County

3.3.2.1. Emergency Broadcast System Station – WCSJ/WJDK

Criterion 5.a.1 – Core Capability: Operational Coordination
Core Capability: Public Information and Warning

3.3.2.2. Emergency Operations Center

Criterion 5.a.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operational Communications

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

Criterion 2.b.2 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety
Core Capability: Operational Communications
Core Capability: Situational Assessment

Criterion 2.c.1 – Core Capability: Operational Coordination
Core Capability: Operational Communications
Core Capability: Situational Assessment

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

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

Criterion 3.c.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Environmental Response/Health and Safety

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

Criterion 3.d.2 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Infrastructure Systems

In summary, the status of DHS/FEMA-evaluated core capabilities and criteria for the County of Grundy is as follows:

- a. MET: All Core Capabilities and Evaluation Criteria identified in the DHS/FEMA-approved extent-of-play agreement.
- b. LEVEL 1 FINDINGS: NONE
- c. LEVEL 2 FINDINGS: NONE
- d. PLAN ISSUES: NONE
- e. PRIOR ISSUES – RESOLVED: NONE
- f. PRIOR ISSUES – UNRESOLVED: NONE

3.3.3 Risk Jurisdiction – Kendall County

3.3.3.1. Emergency Operations Center

Criterion 2.b.2 – Core Capability: Operational Coordination

Core Capability: Intelligence and Information Sharing

Core Capability: Environmental Response/Health and Safety

Core Capability: Operational Communications

Core Capability: Situational Assessment

Criterion 2.c.1 – Core Capability: Operational Coordination

Core Capability: Operational Communications

Core Capability: Situational Assessment

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

Core Capability: Environmental Response/Health and Safety

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

Core Capability: Public Information and Warning

Core Capability: Environmental Response/Health and Safety

Core Capability: Public and Private Services and Resources

Criterion 3.c.1 – Core Capability: Public Information and Warning

Core Capability: Operational Coordination

Core Capability: Critical Transportation

Core Capability: Environmental Response/Health and Safety

Criterion 3.c.2 – Core Capability: Operational Coordination

Core Capability: Critical Transportation

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

Criterion 3.d.2 – Core Capability: Operational Coordination

Core Capability: Critical Transportation

Core Capability: Critical Infrastructure Systems

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

Core Capability: Operational Coordination

Core Capability: Operational Communications

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

Core Capability: Operational Communications

3.3.3.2 Kendall County Sherriff's Office– DCO Briefing

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

Core Capability: Environmental Response/Health and Safety

3.3.3.3 Kendall County Sherriff's Office – TACP

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

3.3.3.4 Emergency Broadcast System Station - WSPY

Criterion 5.a.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operational Communications

In summary, the status of DHS/FEMA-evaluated core capabilities and criteria for the State of Illinois is as follows:

- a. MET: All Core Capabilities and Evaluation Criteria identified in the DHS/FEMA-approved extent-of-play agreement.
- b. LEVEL 1 FINDINGS: NONE
- c. LEVEL 2 FINDINGS: NONE
- d. PLAN ISSUES: NONE
- e. PRIOR ISSUES – RESOLVED: NONE
- f. PRIOR ISSUES – UNRESOLVED: NONE

SECTION 4: Conclusion

The DHS/FEMA evaluation team identified no Findings and no Plan Issues for the State of Illinois during the 2021 Dresden Nuclear Power Station Exercise. No Findings or Plan Issues were identified for The State of Illinois, Grundy County, and Kendall County as a result of the exercise. The ongoing COVID-19 Pandemic and other disasters that occurred during 2020-2021 presented the State of Illinois with substantial logistical and communications challenges for simultaneously developing and implementing a successful commercial nuclear power plant exercise. The response to these challenges and the results of the exercise are discussed in Appendix A of this After Action Report/Improvement Plan.

Based on the results of the exercise, the planning and preparedness for the State of Illinois and affected local jurisdictions provided reasonable assurance that appropriate measures could 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

This appendix summarizes the results from the evaluation of all jurisdictions and functional entities that participated in the July 20, 2021, Dresden Nuclear Power Station, Partial Participation, Plume Exposure Pathway REP Exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Dresden Nuclear Power Station, recommended corrective actions, and a schedule of corrective actions for the identified primary responsible agency.

The DHS/FEMA evaluation team identified no Level 1 or Level 2 Findings and no Plan Issues for the State of Illinois during the 2021 Dresden Nuclear Power Station exercise. No Findings or Plan Issues were identified for Grundy County or Kendall County as a result of the exercise.

The ongoing COVID-19 Pandemic and other disasters that occurred during 2020-2021 presented the State of Illinois with substantial logistical and communications challenges for simultaneously developing and implementing a successful commercial nuclear power plant exercise plan in a combined virtual and physical environment. Travel and social distancing restrictions made it necessary to adopt virtual technologies to conduct the exercise and assess demonstration activities remotely.

Best Practices

The exercise was evaluated virtually using Cisco Webex collaboration software configured by the State of Illinois Emergency Management Agency (EMA), Grundy County, and Kendall County, in collaboration with DHS/FEMA Region V, to establish channels, with audio/visual, chat, and exercise-related document sharing features.

The use of computer-based audio-visual collaboration software, email, and cellular telephone-facilitated voice and text communications allowed the DHS/FEMA evaluation teams to remotely observe demonstration activities at multiple locations and access exercise documentation in real time.

This exercise also involved extensive approval of REP Actual Incident Credit for documented state and local response to the COVID-19 Pandemic and other declared disasters. The approval of Actual Incident Credit required the Offsite Response Organizations to submit documentation substantiating demonstration capabilities consistent with NUREG-0654 FEMA-REP-1, Rev. 1, and FEMA P-1028 REP Program Manual guidance. Assessment credit was approved for response actions that met REP Program capability targets and provided reasonable assurance for protecting public health and safety.

APPENDIX B: Exercise Timeline

The Dresden Nuclear Power Station Radiological Emergency Preparedness Exercise was conducted via Out-of-Sequence events by means of separate guided discussions and interviews. The format in which the criterion demonstrations took place did not include the use of an Exercise Timeline.

APPENDIX C: Exercise Evaluation Team

EXERCISE DATE: July 20, 2021
SITE: Dresden Nuclear Power 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 | Debra Schneck | DHS/FEMA |
| Team Leader – Kendall County | David Persaud | DHS/FEMA |
| Contractor Evaluator Support - Scenario Review | John Wills | ICF |

| Evaluated Off-Site Response Organizations/Locations | Evaluator | Agency/ Organization |
|--|------------------|---------------------------------|
| State of Illinois | | |
| Illinois State Police District 5 -TACP – Interview | David Persaud | DHS/FEMA |
| Illinois State Police District 5 - DCO Briefing | Curtis Williams | DHS/FEMA |
| Grundy County | | |
| Emergency Operations Center | Brett Beardsley | DHS/FEMA |
| Emergency Operations Center | Todd Lawson | DHS/FEMA |
| Emergency Broadcast System Station – WCSJ/WJDK | Brett Beardsley | DHS/FEMA |
| Kendall County | | |
| Emergency Operations Center | Debra Schneck | DHS/FEMA |
| Emergency Operations Center | Ed Diaz | DHS/FEMA |
| Emergency Operations Center | Curtis Williams | DHS/FEMA |
| Sheriff’s Office - DCO Briefing | Debra Schneck | DHS/FEMA |
| Sheriff’s Office - TACP – Interview | Angie Cloutier | DHS/FEMA |

APPENDIX D: Acronyms and Abbreviations

| ACRONYM | DESCRIPTION |
|---------|--|
| AAR | After Action Report |
| ACD | Animal Control Division |
| AMT | Advanced Medical Transport |
| CFR | Code of Federal Regulations |
| cpm | counts per minute |
| CST | Central Standard Time |
| DCO | Dosimetry Control Officer |
| DLR | Dosimeter of Legal Record |
| DRD | Direct-Reading Dosimeter |
| DNPS | Dresden Nuclear Power Station |
| EBS | Emergency Broadcast System |
| ECL | Emergency Classification Level |
| EMC | Emergency Management Coordinator |
| EOC | Emergency Operations Center |
| EOF | Emergency Operations Facility |
| EPZ | Emergency Planning Zone |
| ESDA | Emergency Services and Disaster Agency |
| ESDAC | Emergency Services and Disaster Agency Coordinator |
| ESDAD | Emergency Services and Disaster Agency Director |
| EW | Emergency Worker |
| FEMA | Federal Emergency Management Agency |
| HAD | Health Department Administrator |
| HP | Health Physics |
| IEMA | Illinois Emergency Management Agency |
| IL | Illinois |
| IPAWS | Integrated Public Alert and Warning System |
| IPRA | Illinois Plan for Radiological Accidents |
| ISP | Illinois State Police |
| IWP | Initial Warning Point |
| JIC | Joint Information Center |
| KI | potassium iodide |
| NARS | Nuclear Accident Reporting System |
| ND | Not Demonstrated |
| NIMS | National Incident Management System |
| NOUE | Notice of Unusual Event |
| NRC | Nuclear Regulatory Commission |
| NS | Not Selected |
| ORO | Off-Site Response Organization |
| PAD | Protective Action Decision |

| ACRONYM | DESCRIPTION |
|---------|---|
| PAG | Protective Action Guide |
| PAR | Protective Action Recommendation |
| PDAFN | persons with and access/functional needs |
| PHA | Public Health Administrator |
| PIO | Public Information Officer |
| PPE | Personal Protective Equipment |
| RAC | Regional Assistance Committee |
| RASCAL | Radiological Assessment System for Consequence Analysis |
| REA | Radiological Emergency Area |
| REAC | Radiological Emergency Assessment Center |
| REAC/TS | Radiation Emergency Assistance Center/Training Site |
| REP | Radiological Emergency Preparedness |
| RRG | Radiological Response Group |
| RRR | Return, Reentry, Relocation |
| RT | Radiation Technologist |
| SEOC | State of Illinois Emergency Operations Center |
| SIREN | State of Illinois Rapid Electronic Notification |
| TAC | Traffic and Access Control |
| TACP | Traffic and Access Control Post |
| TSC | Technical Support Center |
| UAC | Unified Area Command |
| URI | Unified RASCAL Interface |

APPENDIX E: Extent-of-Play Agreements

STATE OF ILLINOIS EXTENT OF PLAY AGREEMENT

FOR THE DRESDEN NUCLEAR POWER STATION EXERCISE July 20th, 2021

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.

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.

Conduct of this exercise evaluation will be done Tuesday, July 20th, remotely via a State-provided, web-based platform **(10:00 am in support of Grundy County, 12:00 pm in support of Kendall County)**. The State of Illinois will not be evaluated, but will support the exercise play & evaluation of Grundy and Kendall Counties.

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 Radiological Emergency Assessment Center (REAC) will not be activated but will be established as a SIMCELL to support county exercise play. No personnel will be deployed, however IEMA personnel will remotely support exercise play as needed.

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 demonstrated during this exercise.

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 demonstrated during this exercise.

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

A Radiological Advisor may be utilized to support county exercise play remotely, but will not be evaluated.

Due to real-world response, a DCO briefing/Traffic and Access Control (TAC) interview will be conducted by the Illinois State Police **at a later date to be determined** at the ISP District 5 Headquarters. During this event, the availability of dosimetry will be demonstrated. This evaluation may be done remotely as needed.

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 will not be evaluated during this exercise but may be provided via SIMCELL to support county-level exercise play.

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 will not be evaluated during this exercise but may be provided via SIMCELL to support county-level exercise play.

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 during this exercise but may be provided via SIMCELL to support county-level exercise play.

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 PAR will be transmitted to the EPZ counties via ~~NARS~~ **email by the State exercise controller, in sequence with a “mini scenario” to drive the evaluation.** Players and evaluators will

be included on the email. The ability to make the decision to recommend the use of KI to institutionalized persons will be demonstrated in REAC. The state will participate to the level necessary to support exercise play and state training, but this criterion 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 during this exercise.

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.

Due to real-world response, a DCO briefing/Traffic and Access Control (TAC) interview will be conducted by the Illinois State Police **at a later date to be determined** at the ISP District 5 Headquarters. During this event, the availability of dosimetry will be demonstrated. This evaluation may be done remotely as needed.

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

This criterion will not be evaluated during this exercise but may be provided via SIMCELL to support county-level exercise play.

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.

Due to real-world response, a DCO briefing/Traffic and Access Control (TAC) interview will be conducted by the Illinois State Police **at a later date to be determined** at the ISP District 5 Headquarters. During this event, the availability of dosimetry will be demonstrated. This evaluation may be done remotely as needed.

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 during this exercise.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

Criterion 4.a.1: {Reserved}

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

This criterion will not be evaluated during this exercise.

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

This criterion will not be evaluated during this exercise.

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

This criterion will not be demonstrated during this exercise.

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

protective action decisions.

This criterion will not be demonstrated.

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 during this exercise but may be provided via SIMCELL to support county-level exercise play.

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.

This criterion will not be evaluated during this exercise.

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 demonstrated 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.

Due to real-world pandemic response by medical service providers, this criterion will be evaluated at a later date and time to be determined by all involved parties.

GRUNDY COUNTY EXTENT OF PLAY AGREEMENT

FOR THE DRESDEN NUCLEAR POWER STATION EXERCISE July 20th, 2021

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: Grundy County ~~may choose has chosen to request~~ **has been granted** real world exercise credit for its 2020 response to the Covid-19 outbreak, civil unrest and any other real-world response activities conducted by the county. This document ~~will be~~ **has been** adjusted ~~if/when to reflect credit is requested and potentially~~ received.

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.

~~Because of national and state wide restrictions on gatherings, it may also be necessary to~~ **Conduct of this exercise evaluation will be done Tuesday, July 20th, at 10:00 am remotely via a State-provided, web-based platform.** ~~Future agreements will reflect as necessary.~~

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.

Full real-world exercise credit ~~is being requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ will not be demonstrated or evaluated, but portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

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

This criterion will not be demonstrated for 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.

Full real-world exercise credit ~~is being requested~~ **has been granted** for this criterion and, ~~if approved by FEMA~~, will not be demonstrated or evaluated, but portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

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.

Full real-world exercise credit ~~is being requested~~ **has been granted** for this criterion and, ~~if approved by FEMA~~, will not be demonstrated or evaluated, but portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

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

Full real-world exercise credit ~~is being requested~~ **has been granted** for this criterion and, ~~if approved by FEMA~~, will not be demonstrated or evaluated, but portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

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).

The State of Illinois will make a protective action recommendation to Grundy County officials in the County EOC, via a completed NARS form, and (remotely) through technical support via IEMA Radiological Advisor. The Grundy County officials will make the final decision regarding what protective actions will be recommended to the public through discussions in the county EOC (or remotely if necessary).

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

Partial real-world exercise credit ~~will be requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ will not be demonstrated or evaluated, but portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

~~Sub elements not granted real world exercise credit will be evaluated through a mutually agreed process (i.e., interview) at a time to be determined. This process will be defined in a subsequent Extent of Play agreement.~~ **The types of protective actions that would be taken in relationship for a radiological plume will be discussed through demonstration, or as a follow-up interview.**

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.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate Dosimetry, KI, and procedures and manage radiological exposure to emergency workers in accordance with the 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.

Grundy County will demonstrate **or discuss** this criterion by coordination with the IEMA Radiological Advisor (remotely) and timely dissemination and exchange of information within the County Dosimetry Control Officer network will be discussed and/or interviewed with evaluators. ~~This criterion will also be demonstrated during the school interviews.~~

The Grundy County DCO will conduct a dosimetry briefing for the Grundy County EOC staff.

~~This criterion will also be discussed and/or demonstrated at the school EV-2 interviews with both Morris School District #54 and Morris Community High School District #101 (dates TBD). Both interviews may be conducted remotely, with participation from the District Superintendent, a teacher, the transportation coordinator (DCO), a bus driver and the maintenance supervisor, as well as representation from the Regional Office of Education.~~

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

Grundy County officials will discuss or answer via interview, the issuance of KI and immobile populations, as a voluntary measure, and will discuss, or answer via interview, how they would notify the municipalities of the State's recommendation.

The State of Illinois does not recommend the use of KI by the general public and, as such, that portion of the criterion will not be demonstrated.

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.

Partial real-world exercise credit ~~will be requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ **most** will not be demonstrated or evaluated, **except for discussion of what means of monitoring and decontamination were provided if evacuated during a plume release.** ~~but~~ **Additional** portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

This will be ~~demonstrated,~~ discussed, or answered via interview by Grundy 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.

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

Partial real-world exercise credit ~~will be requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ **most** will not be demonstrated or evaluated, **except for discussion of protective actions implemented during the Emergency Classification Level (ECL) and which relocation centers were utilized;** ~~but~~ **Additional** portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

~~Sub elements— not granted real world exercise credit xxx, xxx and xxx will be evaluated through a mutually agreed process (i.e., interview) at a time to be determined. This process will be defined in a subsequent Extent of Play agreement.~~

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

This criterion does not apply to Grundy County. Grundy County is not responsible for staffing any of the designated traffic and access control posts.

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

The Grundy 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. ~~If the scenario requires coordination with providers, actual contacts with resource providers will be made and logged.~~

The impediment must remain in place during the evacuation long enough that re-routing of traffic is required and must also result in ~~demonstration~~ **discussion** of decision-making and coordination with the JIC to communicate the alternate route to evacuees.

Discussion of how 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 will be covered.

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 be not be demonstrated during this exercise.

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.

Grundy County will demonstrate, discuss or answer via interview, 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 recommendations (PAR).

The ability to provide instructions to the public will be demonstrated through the simulated activation of the local radio station (WCSJ/WJDK). The local radio station will participate (remotely) to the extent necessary to discuss local radio procedures as when contacted by the county.

Coordination between Grundy County, Will County and Kendall County will be discussed remotely with participants from Grundy, Kendall and Will Counties.

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.

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.

Partial real-world exercise credit ~~will be requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ **most** will not be demonstrated or evaluated, **except for discussion of disclosure and explanation of incident ECLs, and the dissemination of radiological emergency information via the media, including identified protective action areas.** ~~but~~ **Additional** portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

~~Sub-elements not granted real-world exercise credit xxx, xxx and xxx will be evaluated through a mutually agreed process (i.e., interview) at a time to be determined. This process will be defined in a subsequent Extent of Play agreement.~~

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Grundy County.

KENDALL COUNTY EXTENT OF PLAY AGREEMENT

FOR THE DRESDEN NUCLEAR POWER STATION EXERCISE July 20th, 2021

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: Kendall County ~~may choose has chosen to request~~ **has been granted** real world exercise credit for its 2020 response to the Covid-19 outbreak, civil unrest and any other real-world response activities conducted by the county. This document ~~will be~~ **has been** adjusted ~~if/when~~ **to reflect** credit ~~is requested and potentially~~ received.

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.

~~Because of national and state wide restrictions on gatherings, it may also be necessary to~~ **Conduct of this exercise evaluation will be done Tuesday, July 20th, at 12:00 pm remotely via a State-provided, web-based platform.** ~~Future agreements will reflect as necessary.~~

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.

Full real-world exercise credit ~~is being requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ will not be demonstrated or evaluated, but portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

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

This criterion will not be demonstrated for 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.

Full real-world exercise credit ~~will be is being requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ will not be demonstrated or evaluated, but portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

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.

Full real-world exercise credit ~~will be is being requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ will not be demonstrated or evaluated, but portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

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

Full real-world exercise credit ~~will be is being requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ will not be demonstrated or evaluated, but portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

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 Kendall 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 Kendall 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 a protective action recommendations to Kendall County officials in the County EOC, via a completed NARS form, and (remotely) through technical support via IEMA Radiological Advisor. The Kendall County officials will make the final decision regarding what protective actions will be recommended to the public through discussions in the county EOC (or remotely if necessary).

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

Partial real-world exercise credit ~~will be requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ will not be demonstrated or evaluated, but portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

~~Sub-elements not granted real-world exercise credit will be evaluated through a mutually agreed process (i.e., interview) at a time to be determined. This process will be defined in a subsequent Extent of Play agreement.~~ The types of protective actions that would be taken in relationship for a radiological plume will be discussed through demonstration, or as a follow-up interview.

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 Kendall 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.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate Dosimetry, KI, and procedures and manage radiological exposure to emergency workers in accordance with the 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.

Kendall County will demonstrate **or discuss** this criterion by coordination with the IEMA Radiological Advisor (remotely) and timely dissemination and exchange of information within the County Dosimetry Control Officer network will be discussed and/or interviewed with evaluators.

This criterion will also be demonstrated during the (TAC) demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted out of sequence at the Kendall County Sheriff's Office on Tuesday, July 20th, 2021 after the conclusion of evaluated activities in the county EOC.

The TAC and DCO briefings will be conducted with the minimum amount of county staff necessary to perform the evaluations. At minimum the county may choose to provide one individual that can brief both TAC and DCO components, and one individual to receive both briefings.

The post for the demonstration will be selected by the exercise controller. The deputy will not be asked to drive to the selected post location for the demonstration. The staffing of the remaining posts will be simulated.

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

Kendall County officials will discuss or answer via interview, the issuance of KI and immobile populations, as a voluntary measure, and will discuss, or answer via interview, how they would notify the municipalities of the State's recommendation.

The State of Illinois does not recommend the use of KI by the general public and, as such, that portion of the criterion will not be demonstrated.

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.

Partial real-world exercise credit ~~will be requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ **most** will not be demonstrated or evaluated, **except for discussion of what means of monitoring and decontamination were provided if evacuated during a plume release.** ~~but~~ **Additional** portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

This will be ~~demonstrated~~, discussed, or answered via interview by Kendall 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.

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

Partial real-world exercise credit ~~will be requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ **most** will not be demonstrated or evaluated, **except for discussion of protective actions implemented during the Emergency Classification Level (ECL) and which relocation centers were utilized;** ~~but~~ **Additional** portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

~~Sub elements— not granted real world exercise credit xxx, xxx and xxx will be evaluated through a mutually agreed process (i.e., interview) at a time to be determined. This process will be defined in a subsequent Extent of Play agreement.~~

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

Partial real-world exercise credit ~~will be requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ **most** will not be demonstrated or evaluated, **except for discussion of at what ECL were TACPs established and were TACPs moved when Protective Actions were established in the relationship of the radiological plume.** ~~but~~ **Additional** portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

Coordination between **Kendall** County agencies designated to provide traffic and access control will be demonstrated, discussed, or answered via interview during the exercise in the County EOC (or remotely if necessary) by the Kendall County Sheriff's Department

The TAC and DCO briefings will be conducted with the minimum amount of county staff necessary to perform the evaluations. At minimum the county may choose to provide one individual that can brief both TAC and DCO components, and one individual to receive both briefings.

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

The Kendall 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. ~~If the scenario requires coordination with providers, actual contacts with resource providers will be made and logged.~~

The impediment must remain in place during the evacuation long enough that re-routing of traffic is required and must also result in ~~demonstration~~ discussion of decision-making and coordination with the JIC to communicate the alternate route to evacuees.

Discussion of how 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 **will be covered.**

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 Kendall 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 Kendall 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.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

This evaluation area does not apply to Kendall 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 FEMA REP guidance.

Kendall County will demonstrate, discuss or answer via interview, 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 recommendations (PAR).

The ability to provide instructions to the public will be demonstrated through the simulated

activation of the local radio station (WSPY). The local radio station will participate (remotely) to the extent necessary to discuss local radio procedures as when contacted by the county.

Coordination between Kendall County, Grundy County and Will County will be demonstrated, discussed remotely with participants from Grundy, Kendall and Will Counties.

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 in this exercise by Kendall County.

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 Kendall County.

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

Partial real-world exercise credit ~~will be requested~~ **has been granted** for this criterion and, ~~if approved by FEMA,~~ **most** will not be demonstrated or evaluated, **except for discussion of disclosure and explanation of incident ECLs, and the dissemination of radiological emergency information via the media, including identified protective action areas.** ~~but~~ **Additional** portions of this criterion may be conducted (only) to support other evaluated exercise criterion.

~~Sub elements not granted real world exercise credit xxx, xxx and xxx will be evaluated through a mutually agreed process (i.e., interview) at a time to be determined. This process will be defined in a subsequent Extent of Play agreement.~~

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Kendall County.

WILL COUNTY EXTENT OF PLAY AGREEMENT

FOR THE DRESDEN NUCLEAR POWER STATION EXERCISE July 20th, 2021

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.

Conduct of this exercise evaluation will be done Tuesday, July 20th, remotely via a State-provided, web-based platform **at 10:00 am for Grundy County and 12:00 pm for Kendall County. Will County will not be evaluated on any item but will provide a participant to coordinate actions with Grundy and Kendall Counties as necessary.**

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 partially activate the Emergency Operations Center (EOC) in Joliet, Illinois, for training purposes and to support the exercise play of Grundy and Kendall counties only. Will County will not be formally evaluated for this exercise.

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.

Decision making will be demonstrated in Will County EOC only to the degree necessary to support exercise play. Coordination of decisions and emergency activities will be demonstrated by Will County only to the degree necessary to support exercise play.

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 may use a combination NARS, commercial telephone, radio and telefax to communicate with departments and agencies at other locations, but the criterion will not be evaluated during this exercise at the EOC.

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 the Dresden exercise.

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 may make protective action recommendations to Will County officials in the County EOC. If applicable, Will County officials will make the final decision regarding what protective actions will be recommended to the public, however, this criterion will not be evaluated during this exercise. Will County officials may coordinate with Kendall & Grundy Counties to support exercise play.

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 may make protective action recommendations to Will County officials in the County EOC. Will County officials may make the final decision regarding what protective actions will be recommended for groups of people with disabilities and those with access/functional needs, however this criterion will not be evaluated during this exercise.

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.

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate Dosimetry, KI, and procedures and manage radiological exposure to emergency workers in accordance with the 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 may coordinate with the IEMA Radiological Advisor (if present), however, this criterion will not be evaluated during this exercise.

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for institutionalized individuals 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 will not be demonstrated during this exercise.

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 demonstrated during this exercise.

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 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.

This criterion will not be demonstrated during this exercise.

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.

This criterion will not be demonstrated during this exercise, except to the extent necessary to support the exercise play of Grundy and Kendall Counties. The radio station will not be expected to participate in this exercise.

Coordination between Will County, Grundy County and Kendall County will be demonstrated but Will county will not be evaluated.

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 in this exercise by Will County.

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 may practice this criterion within the EOC to the level necessary to support the JIC as well as Grundy and Kendall Counties, however it will not be evaluated in Will County.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Will County.

APPENDIX F: Scenario Timeline

The DNPS Radiological Emergency Preparedness Exercise was conducted via Out-of-Sequence events by means of separate guided discussions and interviews. The format in which the criterion demonstrations took place did not include the use of a Scenario Timeline.