

Final After Action Report

Browns Ferry Nuclear Power Plant

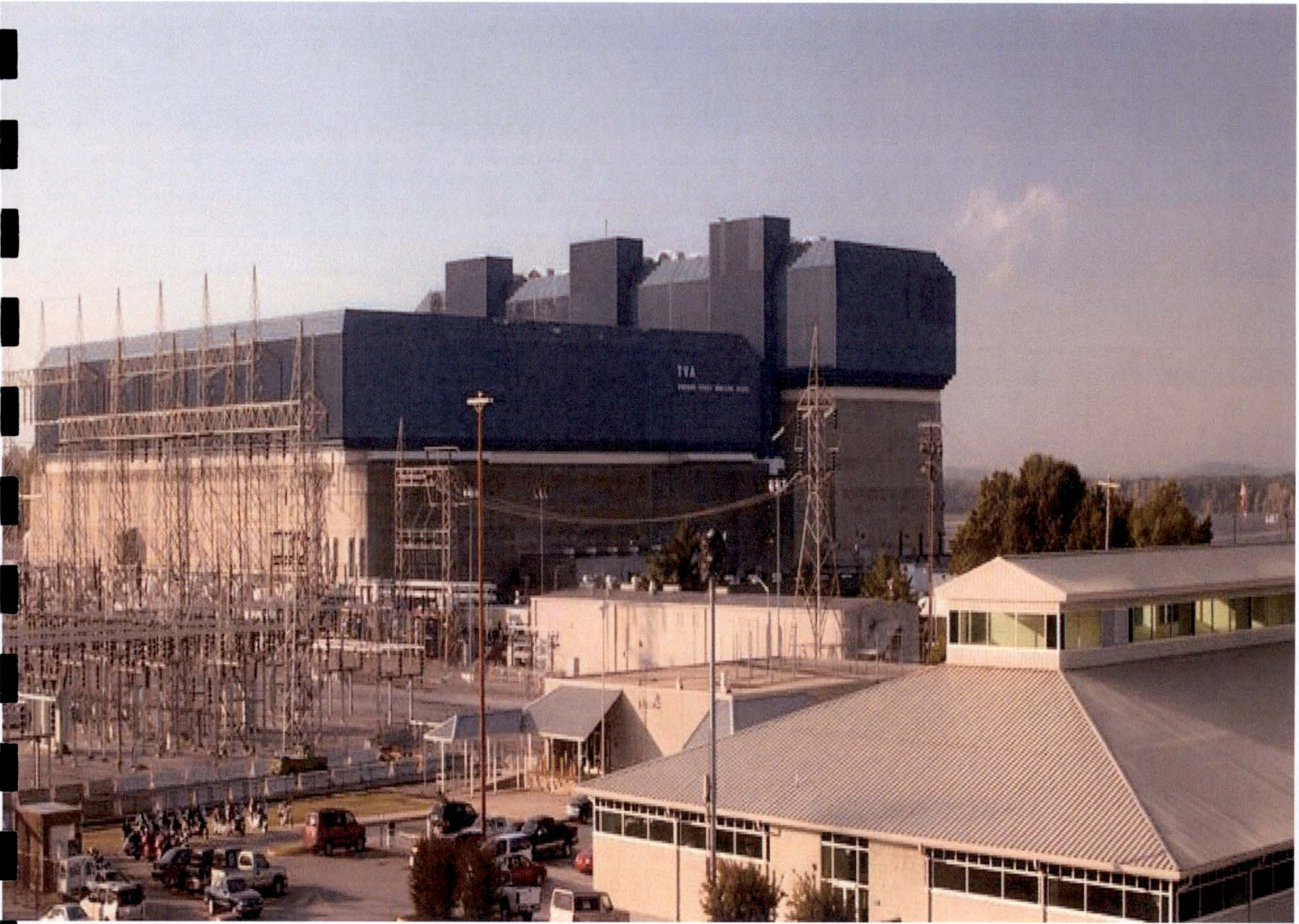
Radiological Emergency Preparedness Exercise

Exercise Date: June 28, 2017

December 7, 2017



FEMA



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Table of Contents

	Page
Table of Contents.....	3
Executive Summary.....	5
Section 1: Exercise Overview.....	7
1.1 Exercise Details	7
1.2 Exercise Planning Team Leadership	7
1.3 Participating Organizations	8
Section 2: Exercise Design Summary.....	11
2.1 Exercise Purpose and Design.....	11
2.2 Exercise Core Capabilities and Objectives.....	11
2.3 Exercise Scenario.....	13
Section 3: Analysis of Capabilities.....	17
3.1 Exercise Evaluation and Results.....	17
3.2 Summary Results of Exercise Evaluation.....	17
3.3 Jurisdictional Summary Results of Exercise Evaluation	19
3.3.1 State of Alabama.....	19
3.3.1.1 State Emergency Operations Center.....	19
3.3.1.2 State Radiological Monitoring and Assessment Center	21
3.3.2 Lauderdale County.....	23
3.3.2.1 Emergency Operations Center	23
3.3.3 Lawrence County.....	25
3.3.3.1 Emergency Operations Center	25
3.3.3.2 Shelter Operations	28
3.3.4 Limestone County.....	29
3.3.4.1 Emergency Operations Center	29
3.3.4.2 Reception Center and Congregate Care.....	32
3.3.5 Morgan County.....	33
3.3.5.1 Emergency Operations Center	33
3.3.5.2 Shelter Operations	36
3.3.6 Madison County.....	37
3.3.6.1 Emergency Operations Center	37
3.3.6.2 Reception Center and Congregate Care Shelter Operations.....	39
3.3.7 Joint Operations	41
3.3.7.1 Joint Information Center.....	41
3.3.8 Support Organizations	42
3.3.8.1 National Weather Service	42
Section 4: Conclusion	45
Appendix A: Exercise Timeline	47
Appendix B: Exercise Evaluators and Team Leaders	49
Appendix C: Alabama Exercise Extent of Play Agreement.....	51

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Executive Summary

On June 28, 2017, the U.S. Department of Homeland Security/Federal Emergency Management Agency Region IV, Radiological Emergency Preparedness Program staff evaluated a full participation plume exposure pathway exercise for the Browns Ferry Nuclear Power Plant.

The plant is located in Limestone County, Alabama, approximately 10 miles northwest of Decatur, Alabama and is operated by the Tennessee Valley Authority. The 10-mile emergency planning zone is divided into 20 emergency response sectors and encompasses parts of Lauderdale, Lawrence, Limestone, and Morgan Counties.

Federal Emergency Management Agency's overall objective of the exercise was to assess the level of State and local preparedness in coordinating and responding to an emergency at the Browns Ferry Nuclear Power Plant. The purpose of this report is to analyze exercise results, identify strengths to be maintained and built upon, identify potential areas for improvement, and support development of corrective actions.

This exercise was held in accordance with Federal Emergency Management Agency's policies and guidance concerning the exercise of State and local radiological emergency response plans and procedures. The evaluation team conducted this exercise using Homeland Security Exercise and Evaluation Program methodology. The previous Federal evaluated exercise was conducted on November 4, 2015. The qualifying joint emergency preparedness exercise was conducted on November 1, 1989.

The evaluation of out of sequence activities during the week of May 8, 2017 is included in this report. The activities included: school and traffic control interviews; reception centers; congregate care; and emergency alert system activation through the local National Weather Service.

Officials and representatives from the State of Alabama; the risk counties of Lauderdale, Lawrence, Limestone, and Morgan; the host county of Madison; National Weather Service; Tennessee Valley Authority; and numerous volunteers and other agencies participated in this exercise. These organizations demonstrated knowledge of their emergency response plans and procedures and successfully implemented them. The jurisdictions met the joint exercise objectives and successfully demonstrated the corresponding Core Capabilities identified in Section 2.2 of this report. During the exercise no level 1 or level 2 findings were identified.

Highlights of the exercise included effective communication and coordination between all involved organizations, resulting in a cohesive and effective response. State, local and federal agency and utility stakeholders were actively involved in quarterly, exercise planning, and task force meetings, resulting in enhanced organizational interactions. Players in each organization excelled in their individual responsibilities, enabling successful demonstration of the capability targets leading to the fulfillment of the core capabilities. The demonstrated commitment of leadership in these organizations was reflected through their staffs.

The Federal Emergency Management Agency will provide an Improvement Plan to the State of Alabama that details the Strengths and Areas for Improvement observed during the exercise and explain the above improvement items in more depth. The Improvement Plan is published under a separate cover and classified "For Official Use Only" in compliance with Homeland Security Exercise and Evaluation Program standards.

The Federal Emergency Management Agency wishes to acknowledge the efforts of the many individuals who participated in the exercise and made it a success. The professionalism and teamwork of the participants was evident throughout all phases of the exercise.

Section 1: Exercise Overview

1.1 Exercise Details

Exercise Name

2017 Browns Ferry Nuclear Power Plant Radiological Emergency Preparedness Exercise

Type of Exercise

Full-Scale Exercise

Exercise Date

June 28, 2017

Exercise Off-Scenario/Out-of-Sequence Dates

May 8-12, 2017

Program

U.S. Department of Homeland Security, Federal Emergency Management Agency,
Radiological Emergency Preparedness Program

Mission

Response

Locations

Various, see Appendix C, extent-of-play agreement for exercise locations.

Sponsors

Alabama Emergency Management Agency and Tennessee Valley Authority

Scenario Type

Plume-Phase Radiological Emergency Preparedness Exercise

1.2 Exercise Planning Team Leadership

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1.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the 2017 Browns Ferry Nuclear Power Plant exercise.

State Jurisdictions:

Alabama Emergency Management Agency
Alabama Department of Public Health
Alabama Law Enforcement Agency
Alabama Department of Human Resources

Risk Jurisdictions:

Limestone County
Limestone County Emergency Management Agency
Limestone County Sheriff's Office
Limestone County Commission
Limestone County Schools
Limestone County 911 Office
Limestone County Community Relations
Limestone Council on Aging
Athens Police Department
Athens Fire Department
Athens City School District
Athens-Limestone Emergency Medical Service

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

Segers Volunteer Fire and Rescue
East Limestone Volunteer Fire and Rescue
Elkmont Fire Department
Oak Grove/Thach Fire Department

Morgan County

Morgan County Emergency Management Agency
Morgan County Emergency Management Communication District 911
Morgan County Commission
Decatur City Mayor
Decatur Police Department
Hartselle Police Department
Morgan County Sheriff's Office
Priceville Police Department
Falkville Police
Trinity Police
Somerville Police
Morgan County Health Department
First Response Ambulance Service
Decatur Morgan Hospital
Decatur Fire
Hartselle Fire
Priceville Fire
Falkville Fire
Brindlee Mountain Fire
Trinity Fire
Morgan County Volunteer Fire Association
Morgan County Schools
Decatur Schools
Hartselle Schools
Morgan County Rescue Squad
Morgan County Emergency Communication
Morgan County Department of Human Resources
North Central Alabama Regional Council of Government Transportation
Department of Agriculture Farm and Animal Control Services
Morgan County Extension Service

Lawrence County

Lawrence County Emergency Management Agency
Lawrence County Ambulance Service
Lawrence County Sheriff's Office
Lawrence County Rescue Squad
Lawrence County Board of Education
Lawrence County Department of Transportation
Lawrence County Commission

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

Lawrence County Ambulance Service
Lawrence County Health Department
Moulton Police Department
Moulton Fire Department
Moulton Rescue Squad

Lauderdale County
Florence-Lauderdale County Emergency Management Agency
Florence-Lauderdale 911
Florence Police Department
Lauderdale County Sheriff's Office

Host Jurisdictions:

Madison County
Huntsville-Madison County Emergency Management Agency
Madison County Sheriff's Office
Huntsville Police Department
City of Madison Police Department
City of Madison Public Works Department
City of Madison Fire Department

Private Organizations:

American Red Cross
Amateur Radio Emergency Service
Decatur Morgan Hospital
Salvation Army
Shoals Ambulance
Voluntary Organizations Active in Disaster

Federal Agencies:

National Weather Service
Tennessee Valley Authority
U.S. Nuclear Regulatory Commission

Section 2: Exercise Design Summary

2.1 Exercise Purpose and Design

The Federal Emergency Management Agency administers the Radiological Emergency Preparedness Program pursuant to the regulations found in Title 44 Code of Federal Regulations parts 350, 351, 352, 353 and 354. Title 44 Code of Federal Regulations part 350 codifies sixteen planning standards that form the basis for radiological emergency response planning for state, tribal, and local governments impacted by the emergency planning zones established for each nuclear power plant site in the United States. Nuclear Regulatory Commission regulations also codify the sixteen planning standards for the licensee. Title 44 Code of Federal Regulations 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 the Federal Emergency Management Agency. One of the Radiological Emergency Preparedness Program cornerstones established by these regulations is the biennial exercise of offsite response capabilities. During these exercises, affected state, tribal, and local governments demonstrate their abilities to implement their plans and procedures to protect the health and safety of the public in the event of a radiological emergency at the nuclear plant.

The results of this exercise, together with review of the radiological emergency response plans, and verification of the periodic requirements set forth in NUREG-0654/FEMA-REP-1, along with supplements through the annual letter of certification and staff assistance visits, enabled the Federal Emergency Management Agency to provide a statement with the transmission of this final after action report to the United States Nuclear Regulatory Commission, 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 State of Alabama formally submitted the Radiological Emergency Response Plans for the Browns Ferry Nuclear Power Plant to the Federal Emergency Management Agency, Region IV on May 15, 1985. The Federal Emergency Management Agency approved the plans pursuant to 44 Code of Federal Regulations 350 on July 6, 1990. The qualifying joint emergency preparedness exercise was conducted on November 1, 1989.

2.2 Exercise Core Capabilities and Objectives

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 programs emergency preparedness evaluation areas. The critical tasks to be demonstrated were negotiated with the State of Alabama and the

counties of Lawrence, Limestone, Lauderdale, Morgan, and Madison. 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.

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.

Situational Assessment: Provide all decision makers with decision-relevant information regarding the nature and extent of hazards, any cascading effects, and status of response.

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.

Environmental Response/Health and Safety: Ensure the availability of guidance and resources to address all hazards including hazardous materials, acts of terrorism, and natural disasters in support of the responder operations and the affected communities.

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 the affected areas and also for response personnel performing lifesaving and life-sustaining operations.

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.

Mass Care: Provide life-sustaining services to the affected population with a focus on hydration, feeding, and sheltering to those who have the most need, as well as support for reunifying families.

The objectives for this exercise were as follows:

Objective 1: Demonstrate the ability to provide Emergency Operations Center management through the Counties and State Emergency Operations Centers Multi-agency Coordination System.

Objective 2: Demonstrate the ability to provide protective action decision making for State and Counties emergency workers and the public through exercise play and discussions of plans and procedures.

Objective 3: Demonstrate the ability to implement protective actions for State and Counties' emergency workers and the public through exercise play and discussions of plans and procedures.

Objective 4: Demonstrate the ability to activate Prompt Alert and Notification System and Emergency Alert System through exercise play.

Objective 5: Demonstrate the ability to perform plume-phase field measurements and analysis utilizing state field teams through exercise play and discussion of plans and procedures.

Objective 6: Demonstrate the effectiveness of plans, policies, and procedures in the Joint Information Center for joint (public and private sectors) emergency information communications.

2.3 Exercise Scenario

The following is a summary of the licensee's formal scenario submitted to FEMA on April 26, 2017 and approved on May 25, 2017. The Scenario and supporting documents were adequate for the demonstration of the exercise objectives and associated technical criteria identified in the extent of play agreement.

Key Times	
800	Exercise begins
830	NOUE ECL declared
838	Alert ECL declared
933	Site Area Emergency ECL declared
1050	Radiological release begins
1051	General Emergency ECL declared <i>PARs to evacuate 2 miles around and 5 miles downwind of BFNPP (Zones A2, B2, F2, G2, E5, F5, and G5) and shelter 10 miles downwind (Zones E10, F10, and G10)</i>
1300	Exercise terminated

Summary: *Exercise begins at 0800 CDT (BFNPP Unit 2).*

At 0815, loss of control room annunciators. Control room evaluates Emergency Action Level (EAL) 8.3-U to determine if a Notification of Unusual Event Emergency Classification Level (ECL) should be declared.

At 0823, recirculation pump trips.

Based on control room assessment of loss of control room annunciators (EAL 8.3-U), a *Notification of Unusual Event ECL should be declared by 0830. NOTE: Conditions for an Alert begin at 0823, so the control room may go directly to the Alert ECL.*

Based on loss of control room annunciators causing a significant loss of plant assessment capability for more than 15 minutes and compensatory indication systems not available (EAL 8.3-A), an *Alert ECL should be declared by 0838.*

At 0845, annunciators are restored.

At 0852, residual heat removal (RHR) pump trips.

At 0918, an Anticipated Transient Without Scram (ATWS) occurs and fuel damage results.

NOTE: The time of reactor trip is not indicated in the scenario narrative. The Fuel Damage data sheet indicates a reactor trip time of ~0918, but the narrative indicates that manual and automatic means of reactor trip failed. This was discussed with the TVA technical point of contact (POC). He could not find the actual time of reactor trip in the scenario materials, but checked with the simulator operators who indicated alternate means of shutdown did not initially work, but that these were effective within about a minute of the ATWS; hence the notation of “~0918” on the Fuel Damage data sheet. The approximate time of reactor trip is included below.

Manual reactor trip at ~0918.

At 0920, recirculation pump seals leak resulting in an increase in drywell pressure. Drywell radiation levels increase due to fuel damage resulting from the ATWS. Control rod power fails.

At 0930, containment and drywell sprays fail.

Based on failure of automatic and manual scram (EAL 1.2-S), a *Site Area Emergency ECL should be declared by 0933.*

At 1015, reactor level water level drops and no injection is available. Emergency depressurization is required.

At 1023, fuel damage and radiation levels increase after emergency depressurization and

water injection occurs.

At 1030, drywell head gaskets fail, plant radiation monitors increase.

NOTE: The original scenario indicated that the "offsite release begins" at this time; however, at 1050, the narrative indicates that stack monitor readings increase which would indicate the start of the release. The scenario Radiation Monitors Report indicates a ramp up of stack monitors from 1050 - 1055. Also, the State Environmental Monitoring data begins at 1055. Discussed this information with the TVA technical POC, and it was agreed that the actual release time is 1050. The offsite release time will be corrected in the licensee scenario.

At 1036, drywell radiation monitor levels exceed conditions for a General Emergency.

At 1050, plant stack radiation monitor levels increase indicating an offsite radiological release. *NOTE: Per the discussion above, the actual offsite release time is 1050.*

Based on magnitude of drywell radiation levels, reactor coolant system boundaries not intact, and loss of primary containment (EAL 2.3-G2), a General Emergency ECL should be declared by 1051.

Protective Action Recommendations (PARs) from the utility are to evacuate 2 miles around and 5 miles downwind of BFNPP (Zones A2, B2, F2, G2, E5, F5, and G5) and shelter 10 miles downwind (Zones E10, F10, and G10), and consider potassium iodide (KI) in accordance with the State Plan. The 1045 licensee dose projection indicates the EPA PAGs for Adult Thyroid Committed Dose Equivalent (CDE) will not be exceeded at the site boundary; however, the release mix includes iodine which should drive the potassium iodide (KI) administration decision.

At 1140, condenser cooling water pump trips.

The exercise will be terminated once the objectives in each organization are met.

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Section 3: Analysis of Capabilities

3.1 Exercise Evaluation and Results

This section contains the results and findings of the evaluation of all jurisdictions and functional entities that participated in the June 28, 2017 plume-exposure-pathway exercise and out-of-sequence activities of May 8-12 2017.

Each jurisdiction and functional entity was evaluated based on the demonstration of core capabilities, capability targets and critical tasks and the underlying radiological emergency preparedness criteria as delineated in the Federal Emergency Management Agency Radiological Emergency Preparedness Program Manual dated January 2016. Exercise criteria are listed by number, and the demonstration status of those criteria are indicated by the use of the following terms:

- M: Met (no unresolved level 1 or level 2 findings assessed and no unresolved findings from prior exercises)
- 1: Level 1 finding assessed
- 2: Level 2 finding assessed or an unresolved level 2 finding(s) from a prior exercise
- P: Plan issue
- N: Not demonstrated

3.2 Summary Results of Exercise Evaluation

The Homeland Security Exercise and Evaluation Program evaluation methodology is an analytical process used to assess the demonstration of specific capabilities during an exercise. A capability provides a means to perform one or more critical tasks under specified conditions and to specific performance standards. Core capabilities form the foundation of the Federal Emergency Management Agency Region IV Radiological Emergency Preparedness Program evaluations. The core capability summaries below provide an overall combined assessment of state and local jurisdictions based upon their collective demonstrated performance as it relates to the specific core capability. Each jurisdiction's standalone capability summaries are listed in Section 3.3 of this report.

Operational Coordination: Key leadership personnel from the participating agencies established and maintained a unified and coordinated operational structure, which provided effective and coordinated direction and control. The facilities which were activated contained ample working space, equipment, and communications capabilities to allow responders to perform their respective roles. The overall decision making process appropriately integrated all critical stakeholders and enabled the implementation of these decisions in a timely manner.

Operational Communications: The facilities that were activated contained ample communications capabilities to allow responders to perform their respective roles. Communications in support of situational awareness and operations were performed with one communication system failure in Madison County. The failed system was seamlessly replaced by one of the backup systems. The system failure had no observed impact on the operations.

Situational Assessment: Alabama Department of Public Health Office of Radiation Control dose assessment personnel assessed radiological and plant conditions to prepare decision-relevant information for the decision makers. The State Health Officer issued appropriate Emergency Health Orders based on the information he was provided.

Public Information and Warning: Alert and notification of the public was made using simulated siren activation and emergency alert system messages. This was followed by supplemental news releases and formal media briefings in the joint information center. Through these processes, public information staff prepared and delivered coordinated, prompt, and reliable information and instructions to the public and media.

Environmental Response/Health and Safety: Alabama Department of Public Health Office of Radiation Control provided appropriate staff and resources to support the response. They demonstrated the positioning and management of field monitoring teams and provided appropriate instructions for emergency worker exposure control. Limestone and Madison County emergency workers demonstrated the ability to perform radiological monitoring and decontamination of evacuees at the Dublin Park Recreation Center and Elkmont High School reception centers.

On Scene Security, Protection and Law Enforcement: Local law enforcement agencies effectively demonstrated the ability to establish traffic and access control points in support of the Browns Ferry Nuclear Power Plant. Their coordinated support of the precautionary and protective action decisions by the local emergency management directors was in compliance with established procedures.

Critical Transportation: Limestone and Morgan County officials successfully demonstrated the capability to safeguard students and faculty. Interviews with select members of the affected schools leadership verified their high levels of knowledge and preparedness in implementing emergency procedures in the event of an emergency at the Browns Ferry Nuclear Power Plant.

Mass Care: Representatives from the Department of Human Resources and volunteers from the American Red Cross demonstrated the ability to provide services and accommodations for evacuees in Lawrence, Limestone, Morgan, and Madison counties. These activities included the registration, care, and sheltering of the affected public that resides within the 10-mile emergency planning zone of the Browns Ferry Nuclear Power Plant.

3.3 Jurisdictional Summary Results of Exercise Evaluation

3.3.1 State of Alabama

3.3.1.1 State Emergency Operations Center

Operational Coordination Capability Summary:

The Alabama Emergency Management Agency staff successfully demonstrated this core capability by establishing and maintaining a unified and coordinated operational structure in support of a radiological emergency at the Browns Ferry Nuclear Power Plant. Activation and staffing of the state emergency operations center was done in accordance with approved plans and exercise agreements. This fixed facility was well equipped to support staff during an emergency event. Sufficient maps and digital displays were located throughout the facility. Primary and secondary communications were demonstrated and no failures were noted.

The staff operated under the National Incident Management System/Incident Command System structure. Within the state emergency operations center there are seven sections with prescribed responsibilities; incident command and staff; external affairs; planning; operations; communications and technology; logistics; and finance and administration.

For nuclear power plant emergencies, the Alabama Emergency Management Agency's role is to coordinate state resources to support response operations. Precautionary and protective action decisions are the responsibility of the Alabama Department of Public Health/Office of Radiation Control in the form of a state emergency health order. The state conducts and facilitates a group coordinating call following the issuance of any protective actions. This call brings key state agencies, the utility, and the risk and host counties together to identify any limiting factors that may prevent the implementation of the protective actions.

The emergency operations center staff worked as a cohesive unit, sharing information with the discussion of what specific agency actions were being taken in support of the response. The director and his staff performed all actions required of them and demonstrated they were fully capable of responding to an emergency at the Browns Ferry Nuclear Power Plant.

For this capability the following Radiological Emergency Preparedness criteria were MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.b.2, 3.d.1, 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None

d. Prior Level 2 Findings – Resolved: None

e. Prior Level 2 Findings - Unresolved: None

Public Information and Warning Capability Summary:

The Alabama Emergency Management Agency external affairs staff successfully demonstrated the capability to conduct emergency public information and warning at the state emergency operations center in response to a radiological emergency at the Browns Ferry Nuclear Power Plant.

The primary method for alerting and notifying the public is through a series of fixed sirens located throughout the 10-mile emergency planning zone followed by the broadcast of Emergency Alert System messages over local radio, television, and weather radios. The State uses joint news bulletins to further expand upon and explain these messages.

The public information response was a collaborative effort with the creation and adoption of a joint information system. This system provided a structure for development and delivery of coordinated messages in response to the emergency. The state's lead public information officer worked with the Alabama Department of Public Health/Office of Radiation Control's counterpart at the State Radiological Monitoring and Assessment Center to craft and distribute joint news bulletins for the media and public. Accurate emergency information was included in each news release and was consistent with the protective action decisions.

The external affairs staff were professional and knowledgeable of their roles and responsibilities.

For this capability the following Radiological Emergency Preparedness criteria were MET: 5.a.1, 5.b.1.

a. Level 1 Finding: None

b. Level 2 Finding: None

c. Not Demonstrated: None

d. Prior Level 2 Findings – Resolved: None

e. Prior Level 2 Findings - Unresolved: None

3.3.1.2 State Radiological Monitoring and Assessment Center

Situational Assessment Capability Summary:

Personnel staffing the State Radiological Monitoring and Assessment Center in Montgomery and the State Radiological Monitoring and Assessment Center in Decatur successfully demonstrated the ability to assess radiological and plant conditions and to make appropriate protective action recommendations and decisions in response to a radiological event at the Browns Ferry Nuclear Power Plant.

Alabama Department of Public Health, Office of Radiation Control staff initially coordinated the state's technical response to the emergency by activating the State Radiological Monitoring and Assessment Center in Montgomery and by contacting and deploying personnel to staff the State Radiological Monitoring and Assessment Center in Decatur and three radiological field monitoring teams. Once the State Radiological Monitoring and Assessment Center in Decatur was activated, responsibility for the response was transferred to that center. Both centers had sufficient equipment, communications, and supplies to support emergency operations. The staff gathered information on plant conditions and performed dose projection calculations.

The State Radiological Monitoring and Assessment Center director made appropriate recommendations for protective actions to the state health officer. The state health officer issued five emergency health orders during the exercise. Immediately prior to issuing orders, the state health officer and center director participated in state group coordination calls with state emergency operations center staff, representatives of other state agencies, and representatives from the affected counties. The director and state health officer provided accident assessment and technical consequence input during the calls. These actions allowed for a greater understanding of the technical aspects of the emergency.

For this capability the following Radiological Emergency Preparedness criteria were MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 2.b.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

Environmental Response/Health and Safety Capability Summary:

Alabama Department of Public Health personnel staffing the State Radiological Monitoring and Assessment Center in Decatur, and two radiological field monitoring teams successfully demonstrated the ability to manage field teams and to obtain ambient radiation measurements and air samples. A third radiological field monitoring team participated in the exercise for training purposes only.

The field monitoring teams properly inventoried, prepared, and checked all equipment, supplies, and survey instruments. The field team coordinator at the State Radiological Monitoring and Assessment Center in Decatur briefed the teams on plant status, protective actions, and meteorological conditions throughout the exercise; and directed the teams to deploy to appropriate locations to detect and characterize the plume. The team members wore appropriate personal protective equipment and described the proper use of dosimetry, administrative dose limits, use of potassium iodide, and record-keeping requirements. Each team demonstrated proper monitoring, air sampling, and contamination control techniques.

For this capability the following Radiological Emergency Preparedness criteria were MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 3.a.1, 4.a.2, 4.a.3.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

Public Information and Warning Capability Summary

Office of Radiation Control public information officers prepared five emergency health orders for the state health officer and three joint media releases. The releases described actions being taken by the Alabama Department of Public Health and provided further details on actions for the public to take in response to the emergency health orders. All media releases were coordinated with and approved by the Alabama Emergency Management Agency prior to dissemination to the public and media.

For this capability the following Radiological Emergency Preparedness criteria were MET: 5.b.1.

- a. **Level 1 Finding:** None

- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.2 Lauderdale County

3.3.2.1 Emergency Operations Center

Operational Coordination Capability Summary:

Florence - Lauderdale County Emergency Management Agency personnel and emergency operations center support staff successfully demonstrated the capability to establish and maintain a unified and coordinated operational structure and process while integrating all critical stakeholders.

Emergency operations center staff were notified and mobilized in an efficient manner using a reverse calling system. The emergency operations center had sufficient equipment and communication capabilities for conducting operations and coordinating the response. When the host county's dedicated communication system did not operate properly, Florence - Lauderdale County demonstrated a seamless integration of the backup system.

The lead planner was assigned responsibility for direction and control, providing him experience in the role and increasing the depth of capabilities within the organization. Task sheets were used to address response actions and followed the emergency response plans by emergency classification level. Frequent staff briefings were provided to keep everyone informed of incident status and response actions.

Emergency operations center staff remained proactive throughout the exercise and had frequent discussions about what would be done if conditions worsened. Protective measures were implemented in accordance with plans. Planning excerpts are maintained for quick distribution to emergency workers to assist with just in time training; to include traffic and access control, backup route alerting, or waterway clearance.

For this capability the following Radiological Emergency Preparedness criteria were MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None

- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

Public Information and Warning Capability Summary:

Florence - Lauderdale County Emergency Management Agency personnel demonstrated their ability to deliver coordinated, prompt, and actionable information to the whole community. The public was alerted using fixed sirens followed by emergency alert system messages, and special news broadcasts that relayed accurate emergency information.

Following each emergency classification level change or emergency health order, the counties conducted a conference call to discuss which emergency alert system messages and/or special news broadcasts were appropriate. Once a consensus was received, Madison County was responsible for coordinating the appropriate messages with the National Weather Service and the Joint Information Center for release. Siren activation was simulated for this exercise, however staff demonstrated knowledge of the system and their ability to activate it.

The emergency alert system messages and special news broadcasts distributed during the exercise were appropriate and provided the public with accurate and timely information. By using joint pre-scripted messages, the risk counties were able to quickly provide the public with coordinated and consistent information and instructions.

For this capability the following Radiological Emergency Preparedness criteria were MET: 5.a.1, 5.b.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

On-Scene Security, Protection, and Law Enforcement Capability Summary:

Florence Police Department and the Florence-Lauderdale Emergency Management demonstrated the ability to establish traffic and access control points in support of an emergency at the Browns Ferry Nuclear Power Plant.

During an out of sequence interview, representatives from the agencies demonstrated the knowledge of radiological exposure control, dosimetry usage, administrative limits, potassium iodide and record management.

The police officers discussed appropriate traffic and access control establishment and management. They demonstrated knowledge of the reasons for establishment of traffic control points, their pre-identified locations, and the equipment necessary to set them up. Impediments to evacuation would be cleared immediately or assistance would be requested and coordinated through the county emergency operations center.

All activities were demonstrated in accordance with established plans and procedures.

For this capability, the following Radiological Emergency Preparedness criteria were MET: 1.d.1, 1.e.1, 3.a.1, 3.d.1., 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.3 Lawrence County**3.3.3.1 Emergency Operations Center****Operational Coordination Capability Summary:**

Lawrence County emergency management officials successfully demonstrated the ability to respond to a radiological emergency at the Browns Ferry Nuclear Power Plant. During escalating emergency levels automated notification methods were used to alert the emergency operations center staff. The Director gathered pertinent emergency information and analyzed it, making appropriate decisions based on feedback and concurrence from county stakeholders. Periodic staff briefings kept the staff informed of emergency conditions and plant status. He provided guidance throughout the exercise, and had his staff periodically brief the status of their actions to maintain effective internal

coordination.

The emergency operations center had multiple communication systems. Both primary and secondary communications systems operated without fail. An electronic incident management system was used to maintain situational awareness and track requests. Group calls were coordinated among the risk counties and State agencies using dedicated notification and conference bridge lines. Sufficient equipment and supplies were available for extended emergency operations.

Agency representatives understood appropriate dosimetry, potassium iodide, and procedures for management of radiological exposure. County health department representatives were prepared to make potassium iodide available to the general public. The staff demonstrated effective planning to relocate persons identified with access/functional needs, school children, and school staff. Law enforcement officials provided details on traffic control points, clearing impediments, and the county's role in restricting access to portions of the Tennessee River. All staff members were knowledgeable, using prepared checklists to ensure the safety of the public and emergency workers.

For this capability the following Radiological Emergency Preparedness criteria were MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

Public Information and Warning Capability Summary:

Lawrence County emergency management officials delivered coordinated, prompt, reliable, and actionable information with clear consistent messaging to the public. Alerting and notifying the populace was completed in a timely manner following each emergency classification level change and after every protective action decision in accordance with the county plans. The sirens and emergency alert system messages were coordinated and activated with no failures.

Special news broadcasts were developed to provide accurate and useful emergency information to the public and media. Pre-scripted messages were selected and vetted through the senior county leadership, then sent to the Lawrence County Public Information Officer at the Joint Information Center for release. The special news broadcasts were consistent with public safety brochures and other State and county emergency information. The county social media page was updated with emergency public information throughout the exercise.

For this capability the following Radiological Emergency Preparedness criteria were MET: 5.a.1, 5.b.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

On-Scene Security, Protection, and Law Enforcement Capability Summary:

The Lawrence County Sheriff's Department, Moulton Fire Department, Moulton Rescue Squad, and Lawrence County Emergency Management demonstrated the ability to establish traffic and access control points in support of an emergency at the Browns Ferry Nuclear Power Plant.

During an out of sequence interview, representatives from the Lawrence County Sheriff's Department, Moulton Fire Department, Moulton Rescue Squad, and Lawrence County Emergency Management demonstrated knowledge of radiological exposure control procedures, dosimetry usage, administrative limits and turn back values, dose, potassium iodide and record management.

Sheriff Department Deputy's discussed the establishment and manning of the pre-determined traffic and access control points. They demonstrated knowledge of the reasons for establishment of traffic control points, the locations, and the equipment necessary to set them up. Impediments to evacuation routes would be cleared immediately by personnel or if impediment was outside of their ability, assistance would be requested and coordinated through the county emergency operations center.

All activities were demonstrated in accordance with established plans and procedures.

For this capability, the following Radiological Emergency Preparedness criteria were MET: 1.d.1, 1.e.1, 3.a.1, 3.d.1., 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.3.2 Shelter Operations

Mass Care Capability Summary:

Representatives from the Northern Alabama Chapter of the American Red Cross described their operation of the shelter at the Moulton Church of Christ in Moulton, Alabama. The church's recreational facility is used as a congregate care center for the general public in the event of a radiological emergency at the Browns Ferry Nuclear Plant. Mass care services within Lawrence County is delegated to the American Red Cross and supported by Lawrence County Emergency Management.

Participants successfully demonstrated their ability to assure that evacuees had been monitored and decontaminated as appropriate prior to entering. The facility had ample space and excellent accommodations, to include sleep areas, restrooms, and shower points. The layout was logical and made best use of the building design. The staff was well trained and knowledgeable of their responsibilities, and displayed a commendable dedication to the health and welfare of the public.

For this capability the following Radiological Emergency Preparedness criteria were MET: 6.c.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.4 Limestone County

3.3.4.1 Emergency Operations Center

Operational Coordination Capability Summary:

Limestone County Emergency Management Agency staff successfully demonstrated their ability to establish and maintain a coordinated operational structure in support of a radiological emergency at the Browns Ferry Nuclear Power Plant. Following the declaration of alert, activation and staffing of the emergency operations center was done in accordance with published plans and exercise agreements. Using a modified incident command structure, multiple agencies supported the response with the director assuming the position as the incident commander.

The emergency operations center was secured by officers from the Athens Police Department. The facility had adequate space, supplies, and communications equipment to support emergency operations for multiple operational periods. The primary communications between the state and responding jurisdictions was the emergency communications notification system, secondary was two-way radio cell phone. All communications systems were functional at the commencement of the exercise and there were no communications systems failures during the exercise that impacted Limestone County.

Actions were taken early in the event to safely relocate special needs populations to include city, county and private school students and staff. This action also included establishing traffic control points in key locations. Consideration was made for managing radiological exposure of these emergency workers.

Protective action decisions were made by the Alabama State Health Officer. The director and staff used the protective action decisions to modify pre-scripted Emergency Alert System messages and special news bulletins that informed the public of actions to take. These modifications were coordinated with Lauderdale, Lawrence, Madison, and Morgan Counties before being released to the public.

Throughout the exercise the emergency operations center staff worked as a cohesive unit with the sharing of information and the discussion of what specific agency actions were being taken. Frequent information briefings by the director enabled the staffs to stay abreast of the overall situation during the exercise. The director and the staff successfully preformed all required actions, demonstrating that they were capable of protecting the population of Limestone County in the event of a radiological emergency at the Browns Ferry Nuclear Power Plant.

For this capability the following Radiological Emergency Preparedness criteria were MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

Public Information and Warning Capability Summary:

The Limestone County Emergency Management Agency public information staff successfully demonstrated the public information and warning core capability in response to an emergency event at the Browns Ferry Nuclear Power Plant.

Upon activation, Limestone County public information staff in the emergency operations center and joint information center established and maintained communication, sharing status updates and providing situational awareness. The staff was knowledgeable of their plans and procedures. Messages were coordinated between staff, the State, host and risk counties, and approved by the incident commander. Information was released and disseminated to the public and media through the joint information center and emergency alert system.

All emergency alert system and special news broadcast messages were coordinated to be released simultaneously with siren activations. The scenario did not present an occasion where backup route alerting was necessary, however the operations officer explained the protocols for addressing siren failures and route alerting, which was consistent with plans.

One public inquiry call was received at the emergency operations center during this exercise. The public information officer provided accurate and timely information and then referred the caller to the public inquiry hotline number at the joint information center for further inquiries.

For this capability the following Radiological Emergency Preparedness criteria were MET: 5.a.1, 5.b.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None

e. Prior Level 2 Findings - Unresolved: None**Critical Transportation Capability Summary**

Limestone County emergency management and school officials successfully demonstrated the capability to safeguard students and faculty in the event of an emergency at the Browns Ferry Nuclear Power Plant. During an interview with county school officials and representatives from Lindsey Lane Christian Academy, the staffs were knowledgeable with implementing emergency procedures. They referred to their plans, which stated the Head of Schools and Principal would determine the need for evacuation, and would provide the transportation assets to accomplish it. If needed, the students, staff and faculty would evacuate to their paired host school. Teachers would maintain student accountability using daily rosters. Teachers are to accompany their students to the relocation school and remain with the students until each student is picked up. Parental notification would be via the school's automated electronic mass notification system which would tell parents to pick up their children only at the relocation school.

County and school staff's interviewed projected the confidence, knowledge, and management skills required to implement protective actions for the student body and staff of their facility.

For this capability the following Radiological Emergency Preparedness criteria were MET: 3.c.2.

a. Level 1 Finding: None

b. Level 2 Finding: None

c. Not Demonstrated: None

d. Prior Level 2 Findings – Resolved: None

e. Prior Level 2 Findings - Unresolved: None

On-Scene Security, Protection, and Law Enforcement Capability Summary:

Limestone County Sheriff's Department and Limestone County Emergency Management demonstrated the ability to establish traffic and access control points in support of an emergency at the Browns Ferry Nuclear Power Plant.

During an out of sequence interview, representatives from county emergency management and deputies from the sheriff's office demonstrated their knowledge of radiological exposure control including: dosimetry usage, administrative limits and turn back values, potassium iodide and record management.

The deputies discussed traffic and access control establishment and the reasons for establishment of the traffic control points, their pre-identified locations, and the equipment necessary to set them up. Impediments to evacuation would be cleared by the assigned personnel or if the impediment was outside of their ability, they would request assistance through the county emergency operations center.

All activities were demonstrated in accordance with established plans and procedures.

For this capability, the following Radiological Emergency Preparedness criteria were MET: 1.d.1, 1.e.1, 3.a.1, 3.d.1., 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.4.2 Reception Center and Congregate Care

Environmental Response/Health and Safety Capability Summary:

The ability to provide monitoring, decontamination and registration of evacuees was successfully demonstrated by members of the Elkmont Volunteer Fire Department as an out of sequence activity on May 11, 2017. The participants were issued the appropriate dosimetry and were knowledgeable of their radiological exposure limits as defined in both state and county procedures. Personal protective equipment was simulated and discussed with each team member. Equipment, monitoring instruments and other supplies were available and sufficient to support this response operation.

There were a total of six evacuees processed during this demonstration. Four were found to be free of contamination and two were found to be contaminated, all by controller inject. Calculating the population of the 10-mile emergency planning zone sectors assigned to this reception center against the 20% planning base, it was determined the county met the monitoring productivity rate standard as outlined in the Radiological Emergency Preparedness Program Manual.

For this capability the following Radiological Emergency Preparedness criteria were MET: 1.e.1., 3.a.1., 3.b.1., 6.a.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

Mass Care

The Limestone County Department of Human Resources and the Limestone County Chapter of the American Red Cross successfully demonstrated the capability to register evacuees and manage this facility. The Elkmont High School congregate center had the required resources and personnel to provide services and accommodations consistent with planning guidelines. Agency representatives demonstrated and discussed registration, reunification, communications and evacuee acceptance procedures.

The Elkmont High School congregate center and shelter is service and comfort animal friendly. The staff was well trained and knowledgeable of their responsibilities, and displayed a commitment to the health and welfare of the public.

For this capability the following Radiological Emergency Preparedness criteria were MET: 6.c.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.5 Morgan County

3.3.5.1 Emergency Operations Center

Operational Coordination Capability Summary:

Personnel from the Morgan County Emergency Management Agency successfully demonstrated the capability of operational coordination. The director successfully received the initial notification over the Emergency Communication Notification System,

and discussed the process of alerting and mobilizing the staff and key officials. The emergency operations center was well equipped and furnished, and had multiple redundant communications systems to coordinate and communicate with the state and neighboring jurisdictions.

The director effectively managed and coordinated operations, and participated in the discussions regarding protective action decisions. Position-specific task books and checklists created by emergency management staff for the responding agencies, department and non-government organizations structured tasks by emergency classification levels. After the Alert declaration, the director tasked the county health services to start the movement of the supply of potassium iodide.

The decision to relocate persons with disabilities and access/functional needs was accomplished early during the exercise. The North Central Alabama Regional Council of Governments Transportation System has the responsibility for ensuring that groups of persons with disabilities and access/functional needs are relocated.

The City of Decatur Police Department and Morgan County Sheriff's Office officials successfully explained how they would be notified and where they would receive their radiological briefing, equipment, and assignments.

For this capability the following Radiological Emergency Preparedness criteria were MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

Public Information and Warning Core Capability Summary:

The Morgan County Emergency Management staff effectively demonstrated the Public Information and Warning Core Capability during this exercise. This included the ability to provide prompt and accurate primary alerting and notification of the public through activation of the alert and notification system. The ability to provide backup alerting in case of siren failure was discussed by interview.

The acting public information officer and assistant developed accurate and timely news releases. Utilizing pre-scripted messages located in their procedures they ensured timely and complete coordination of the messages with state, and the other risk counties.

For this capability the following Radiological Emergency Preparedness criteria were MET: 5.a.1, 5.b.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

Critical Transportation Capability Summary:

Morgan County School and emergency management officials successfully demonstrated the capability to safeguard students and faculty in the event of an emergency at the Browns Ferry Nuclear Power Plant. During interviews with Morgan County school officials, the process of implementing emergency safeguards and evacuation procedures was discussed. They referred to their plans, which states that the principals and school districts would determine the need for evacuation, and would provide the bus transportation assets to accomplish it. The students, staff and faculty at the schools would evacuate to their paired host school. Teachers would maintain student accountability using daily rosters. Teachers accompany their students on the buses to the relocation school and remain with the students until each student is picked up. Parental notification would be made using the automated electronic mass notification system. The message would tell parents to pick up their children only at the relocation school.

Agency representatives interviewed projected the confidence, knowledge, and management skills required to implement protective actions for the students and staff of their school system.

For this capability the following Radiological Emergency Preparedness criteria were MET: 3.c.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

On-Scene Security, Protection, and Law Enforcement Capability Summary:

The Decatur Police Department demonstrated the ability to establish traffic and access control points during an emergency at the Browns Ferry Nuclear Power Plant.

During an out of sequence interview, officers from the Decatur Police Department discussed appropriate traffic and access control establishment. They demonstrated knowledge of initiating orders to set up traffic control points, the reasons for establishment of traffic control points, their pre-identified locations, and the equipment necessary to set them up. Impediments to evacuation would be cleared immediately by the assigned personnel. If impediment removal was outside of their ability, assistance would be requested and coordinated through the county emergency operations center.

They demonstrated knowledge of radiological exposure control, dosimetry usage and placement, administrative limits and turn back values, dose, potassium iodide and record management. Potassium iodide is distributed in accordance with plans and procedures.

All activities were demonstrated in accordance with established plans and procedures.

For this capability, the following Radiological Emergency Preparedness criteria were MET: 1.d.1, 1.e.1, 3.a.1, 3.d.1., 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.5.2 Shelter Operations**Mass Care Capability Summary:**

The Northern Alabama Chapter of the American Red Cross manages Morgan County congregate care facilities. They demonstrated through interview, that the Priceville Junior High School congregate center had the required resources and personnel to provide services and accommodations consistent with American Red Cross planning guidelines. The American Red Cross representative discussed registration, reunification, communications and the procedures which validate evacuees have been monitored for contamination and/or decontaminated prior to entering congregate care facilities.

The Priceville Junior High School congregate center is service animal friendly. Pets are not allowed in the congregate center, however, coordination and assessment will occur with the county to shelter pets.

For this capability the following Radiological Emergency Preparedness criteria were MET: 6.c.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.6 Madison County

3.3.6.1 Emergency Operations Center

Operational Coordination Capability Summary:

The Operational Coordination Core Capability was successfully demonstrated by the Madison County emergency operations center staff. Madison County is a host county and played a significant role in the coordination of risk county actions. The Madison County Emergency Management Agency used effective means to alert, notify, and mobilize personnel and activated the emergency operations center in a timely manner. In addition to emergency operations center staffs, the notification also went to elected officials, hospitals, and other emergency services. This system was repeated during each emergency classification level change. The staff demonstrated protective action implementation coordination among the four risk counties and with the Huntsville National Weather Service.

The emergency operations center had redundant means of communications. During the exercise the emergency operations center experienced failure of the primary means of communications. The failure was insignificant due to the successful operational status of the other communications systems. An electronic incident management system was used to maintain situational awareness and track assistance requests. Discussions among the risk counties and the state concerning protective actions were coordinated with Madison.

The emergency operation center staff was knowledgeable and well equipped to support emergency operations in support of an event at the Browns Ferry Nuclear Power Plant.

For this capability the following Radiological Emergency Preparedness criteria were MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 3.a.1., 3.d.1, 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

Public Information and Warning Core Capability Summary:

The Public Information and Warning Core Capability was successfully demonstrated by Madison county staff by coordinating the activation of the fixed siren system and the broadcasting of emergency alert system messages. Madison County Emergency Management Agency coordinated five different siren activations and six emergency alert system messages during the exercise. This was supplemented by seven special news broadcasts with detailed information augmenting the emergency alert system messages. Emergency Management officials coordinated between the National Weather Service, state agencies and the risk counties to identify the correct emergency alert system messages and times to notify the public of the protection action decisions. The emergency management staff was professional and proactive in their responsibilities.

For this capability the following Radiological Emergency Preparedness criteria were MET: 5.a.1, 5.b.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

On-Scene Security, Protection, and Law Enforcement Capability Summary:

The ability to implement traffic and access control operations along with the clearance of impediments was completed by interview with a command rank officer from the City of Madison Police Department. This interview was done in conjunction with the county reception and congregate care center interviews. The City of Madison Police Department is responsible to provide evacuee ingress and egress as well as overall traffic management for the Dublin Park Recreation Center facility. This facility is one of three

alternate reception centers used to receive overflow evacuees from Limestone and Morgan counties.

Augmentation of the City of Madison Police Department would come from the Huntsville Police Department and the Madison County Sheriff's Office. All agencies have multiple means of communication. Law enforcement representatives demonstrated the ability to manage their radiological exposure. Potassium iodide would be distributed in accordance with plans and procedures. All were knowledgeable of radiological exposure control limits, dosimetry usage and placement, administrative limits and turn back values, dose and record management.

Officers were equipped with several personal safety related pieces of equipment which included dosimetry, traffic safety vests, flashlights and traffic direction devices. Police vehicles are equipped with overhead emergency lights, radios and traffic cones. Impediments to evacuation would be cleared immediately by the assigned personnel. If impediment removal was outside of their ability, assistance would be requested and coordinated through the county emergency operations center. Other organizations available to assist with impediment removal would include Public Works and/or contractual wrecker services.

For this capability, the following Radiological Emergency Preparedness criteria were MET: 1.d.1, 1.e.1, 3.a.1, 3.d.1., 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.6.2 Reception Center and Congregate Care Shelter Operations

Environmental Response/Health and Safety Capability Summary

Members from Madison County Emergency Management Agency, Department of Human Resources, City of Madison Police Department and Fire Department and the North Alabama Chapter of the American Red Cross participated in a group evaluation of the county's reception center. This group interview was conducted at the Dublin Park Recreation Center facilities located at 8324 Old Madison Pike, Madison, AL. The location is located well outside the 10-mile emergency planning zone of the Browns Ferry Nuclear Power Plant and is used as an alternate overflow reception center for the general public from Limestone and Morgan counties. Dublin Park Recreation Center

facility functions solely as an alternate overflow reception center and is not a congregate care facility. The radiological monitoring and decontamination of evacuees is to take place in those counties before the evacuee is advised to proceed to the Madison County facility.

The Dublin Park facilities provided ample space to complete evacuee registration. Through interview, a monitoring and decontamination capability was stated to exist. Madison County has the equipment, monitoring instruments, dosimetry, personnel, and other supplies sufficient to support this capability. However, Madison County is a host county and per plan does not monitor or decontaminate evacuees. In accordance with existing plans and the extent of play, monitoring and decontamination of evacuees was not demonstrated for this activity.

For this capability the following Radiological Emergency Preparedness criteria were MET: 1.d.1, 1.e.1, 3.a.1, 3.d.1., 3.d.2.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

Mass Care Capability Summary:

Representatives from Madison County Emergency Management Agency, Department of Human Resources and the North Alabama Chapter of the American Red Cross participated in a group discussion/interview of the county's shelter capabilities. The North Alabama Chapter of the American Red Cross has signed agreements with facilities in Madison County to provide overflow shelter services for the general public from Limestone and Morgan counties. Longer-term sheltering of more than 48 hours would be made available at the Restoration Foursquare Church, 5810 Wall Triana Highway, Madison, Alabama (approximately five miles away from the Dublin Park Recreation Center).

Registration and care of evacuees is performed by the Madison County Alabama Department of Human Resources, with responsibility for shelter operations delegated to the Northern Alabama Chapter of the American Red Cross. Participants successfully demonstrated their ability to verify that evacuees have been monitored and decontaminated as appropriate prior to entering the shelter.

For this capability the following Radiological Emergency Preparedness criteria were MET:

6.c.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.7 Joint Operations

3.3.7.1 Joint Information Center

Public Information and Warning Capability Summary:

Public information officers and support staff from the offsite response organizations successfully integrated into an effective team. The collaboration and coordination of the participants enabled them to disseminate accurate, timely and useful emergency public information in response to a radiological emergency involving the Browns Ferry Nuclear Power Plant.

A joint information system was established at the Alert declaration. Following the Site Area Emergency declaration, the joint information center was activated in accordance with the extent of play agreement, state and county personnel were prepositioned in the facility and joined exercise play after receiving their notifications.

Redundant communication capabilities and supplies to support operations were available and sufficient to support the response. An electronic emergency management information tracking system, cell phone, texts, emails and two-way radios were all used as the means of communication. All operated without fail during the exercise. This facility was located outside the 10-mile emergency planning zone; therefore, dosimetry, and potassium iodide were not required.

The joint information center staff disseminated news releases and emergency health orders. They conducted one formal media briefing following the declaration of a General Emergency which outlined the protective action decisions, specific instructions for the public, emergency public health orders, plant conditions as well as response, mitigation, and recovery from the incident. Under a local mutual aid agreement, representatives from the City of Athens, Blount, Colbert, Cullman, Jackson, and Marion counties provided public information officers in the joint information center for the risk counties. This practice was beneficial in two ways; it allowed risk jurisdictions to retain staff during emergencies, and it expanded the radiological emergency preparedness awareness to

those jurisdictions.

Public inquiry was completed by Tennessee Valley Authority staff from this facility. Specific state inquiries were forwarded to the Alabama Emergency Management Agency assistant public information officer located in an adjacent room. State and utility spokespersons were made aware of the calls received and addressed trends and rumors during the media briefing. Information approved to be released on social media was posted on the bottom of several news releases.

For this capability, the following Radiological Emergency Preparedness criterion were MET: 1.a.1, 1.d.1, 1.e.1, 5.b.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None
- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

3.3.8 Support Organizations

3.3.8.1 National Weather Service

Public Information and Warning Capability Summary:

The National Weather Service successfully demonstrated the core capability Public Information and Warning through discussion detailing the activation of the local emergency alert system and the National Oceanic and Atmospheric Administration weather radios. Madison County coordinates with the National Weather Service the activation of the weather radios and the transmission of the emergency messages to local radio and television stations after coordination with the risk counties. The National Weather Service staff explained the process fully and in accordance with the established plans.

For this capability, the following Radiological Emergency Preparedness criteria were MET: 1.d.1, 1.e.1, and 5.a.1.

- a. **Level 1 Finding:** None
- b. **Level 2 Finding:** None
- c. **Not Demonstrated:** None

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

- d. **Prior Level 2 Findings – Resolved:** None
- e. **Prior Level 2 Findings - Unresolved:** None

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Section 4: Conclusion

Officials and representatives from the State of Alabama; the risk counties of Lauderdale, Lawrence, Limestone, and Morgan; the host county of Madison; National Weather Service; Tennessee Valley Authority; and numerous volunteers and other agencies participated in this exercise. The cooperation and teamwork of the participants was evident throughout all phases of the exercise. The Federal Emergency Management Agency wishes to acknowledge the efforts of the many individuals who participated and made this exercise a success. State and local emergency response organizations demonstrated knowledge of their emergency response plans and procedures and successfully implemented them.

Highlights of the exercise included effective communication and coordination between all involved organizations, resulting in a cohesive and effective response. State, local and federal agency and utility stakeholders were actively involved in quarterly, exercise planning, and task force meetings, resulting in enhanced organizational interactions. Players in each organization excelled in their individual responsibilities, enabling successful demonstration of the capability targets leading to the fulfillment of the core capabilities. The demonstrated commitment of leadership in these organizations was reflected through their staffs.

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Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

Appendix A: Exercise Timeline

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken								
		SEOC	SRMAC-Montgomery	SRMAC-Decatur	JIC	Lauderdale County	Lawrence County	Limestone County	Morgan County	Madison County
Alert	0829	0836	0844			0844	0844	0844	0844	0844
Site Area Emergency	0925	0935	0935	0936	1002**	0937	0937	0937	0937	0937
General Emergency	1038	1049		1049	1057	1053	1053	1053	1053	1053
Simulated Rad. Release Started	1144	1150		1106	1106	1106	1106	1106	1106	1106
Simulated Rad. Release Terminated	Ongoing	Ongoing		Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing-	Ongoing
Facility Declared Operational		0910	0844	0935	1025	0848	0925	0945	0857	0851
Declaration of State of Emergency										
State		1107		1121	1112	1122	1122	1112	1122	1122
Local						0952	1000	0936	1058	
Exercise Terminated		1300		1300	1300	1300	1300	1300	1300	1300
1st Protective Action Decision Sound Siren and Stay Tuned		0940			0940	0940	0940	0940	0940	0940
1st PNS Activation		0945			0945	0945	0945	0945	0945	0945
1st EAS Message EAS #2: Stay Tuned		0945			0945	0945	0945	0945	0945	0945
2nd Protective Action Decision EHO #1 & #2: Public Warning/Restrict Access 2-mile		1010		1010	1010	1010	1010	1010	1010	1010
2nd PNS Activation		1026			1026	1026	1026	1026	1026	1026
2nd EAS Message EAS #5 SNB #4 & #6		1026			1026	1026	1026	1026	1026	1026
3rd Protective Action Decision General Emergency Alert and Notification		1058			1058	1058	1058	1058	1058	1058
3rd PNS Activation		1102			1102	1102	1102	1102	1102	1102

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken								
		SEOC	SRMAC- Montgomery	SRMAC- Decatur	JIC	Lauderdale County	Lawrence County	Limestone County	Morgan County	Madison County
3rd EAS Message EAS #3		1102			1102	1102	1102	1102	1102	1102
4th Protective Action Decision EHO #3 & #4: Evacuate Zones A2, B2, F2, E5, F5, G2, G5		1125		1125	1125	1125	1125	1125	1125	1125
4th PNS Activation		1145			1145	1145	1145	1145	1145	1145
4th EAS Message EAS #9 SNB #10		1145			1145	1145	1145	1145	1145	1145
5th Protective Action Decision EHO #4: KI Zones: A2, B2, F2, E5, F5, G2, G5		1125		1125	1125	1125	1125	1125	1125	1125
5th PNS Activation		1150			1150	1150	1150	1150	1150	1150
5th EAS Message EAS #13 SNB #14		1150			1150	1150	1150	1150	1150	1150
6th Protective Action Decision EHO #5: Evacuate Zones E10, F10, G10		1155		1155	1155	1155	1155	1155	1155	1155
6th PNS Activation		1210			1210	1210	1210	1210	1210	1210
6th EAS Message EAS #9 SNB: #10		1210			1210	1210	1210	1210	1210	1210

**BFN JIS Activation at 0920

Appendix B: Exercise Evaluators and Team Leaders**Regional Assistance Committee Chair:** Randall Hecht**Section Chief:** Robert Spence**Site Specialist:** Glenda Bryson

Location	Evaluation Team	Core Capabilities
Joint Operations		
JIC	JT Ackermann John Simpson	Public Information & Warning
NWS (OOS)	Glenda Bryson Robert Spence	Public Information & Warning
State of Alabama		
SEOC	Robert Spence Libby Adkins	Operational Coordination Public Information & Warning Operational Communications
SRMAC-Montgomery	Mike Henry ICF-TE 2	Situational Assessment Environmental Response/Health and Safety Public Information & Warning
SRMAC-Decatur	Brad McRee ICF-TE 1	Situational Assessment Environmental Response/Health and Safety Public Information & Warning
Field Teams	Joe Harworth John Fill**	Environmental Response/Health and Safety
Lauderdale County		
EOC	Matt Bradley Lorenzo Lewis	Operational Coordination Public Information & Warning
Various OOS	Glenda Bryson Robert Spence	On-Scene Security, Protection, and Law Enforcement Operational Coordination
Lawrence County		
EOC	Mike Dolder Andrew Seward	Operational Coordination Public Information & Warning
Various OOS	JT Ackermann Glenda Bryson Walt Cushman Mike Dolder Gerald McLemore Robert Spence	On-Scene Security, Protection, and Law Enforcement Operational Coordination Mass Care
Limestone County		

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

Location	Evaluation Team	Core Capabilities
EOC	Walt Cushman Glenda Bryson Jim Greer ICF-NTE 2	Operational Coordination Public Information & Warning
Various OOS	JT Ackermann Glenda Bryson Walt Cushman Mike Dolder Gerald McLemore Robert Spence	On-Scene Security, Protection, and Law Enforcement Environmental Response/Health and Safety Mass Care
Morgan County		
EOC	Alex Sera Quintin Ivy Roy Smith ICF-NTE 1	Operational Coordination Public Information & Warning
Various OOS	JT Ackermann Glenda Bryson Walt Cushman Mike Dolder Gerald McLemore Robert Spence	Mass Care On-Scene Security, Protection, and Law Enforcement Critical Transportation (Protective Action for School)
Madison County		
EOC	Gerald McLemore Robert Nash	Operational Coordination Public Information & Warning
Various OOS	JT Ackermann Glenda Bryson Walt Cushman Mike Dolder Gerald McLemore Robert Spence	On-Scene Security, Protection, and Law Enforcement Environmental Response/Health and Safety Mass Care

Appendix C: Alabama Exercise Extent of Play Agreement

ALABAMA EMERGENCY MANAGEMENT AGENCY EXTENT OF PLAY AGREEMENT 2017 BROWNS FERRY NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS EXERCISE

All activities will be demonstrated fully in accordance with respective plans and procedures, as they would be in an actual emergency. The Federal Emergency Management Agency (FEMA) Regional Office must receive these plans, guides and procedures at least 60 days before the exercise. This Extent of Play Agreement (EOPA) is written by exception. If it is not listed as an exception, it will be demonstrated as described in the plans, standard operating guides (SOGs) and/or procedures (SOPs). Any issue or discrepancy arising during exercise play may be re-demonstrated if allowed by the Regional Assistance Committee (RAC) Chair or as listed herein. This allowance may be granted if it is not disruptive to exercise play and is mutually agreed to by the Offsite Response Organization (ORO) Exercise Controller and FEMA Evaluator. Some activities are requested to be performed as a training-only opportunity, and are identified in the participant description.

CORE CAPABILITY: OPERATIONAL COORDINATION

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: EMERGENCY OPERATIONS MANAGEMENT

Performance Measure: Procedures to alert and notify personnel will be demonstrated and personnel will respond only upon notification. Identified communications will be operational. Key personnel with leadership roles will provide direction and control. A particular facility's equipment and supplies must be sufficient and consistent with that facility's assigned role in the ORO's emergency operations plans. Specific equipment and supplies that must be demonstrated under this criterion include KI inventories, dosimetry, and monitoring equipment.

Participants: SEOC Staff and EMCs.

CRITICAL TASK: Criterion 1.a.1.

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

On May 3rd and June 28, 2017, AEMA Staff and SEOC Support Staff will be pre-positioned at the SEOC, (located at 5898 County Road 41, Clanton, AL) the SRMAC, and JIC. Additional State EOC staff, Emergency Management Coordinators, and will be alerted, notified and mobilized according to the Browns Ferry Nuclear Plant Notification List, and SOG. AEMA will simulate alerting, notifying, and mobilizing personnel. Pre-positioning is necessary due to the compression of the scenario and the distances involved in traveling to the various locations. AEMA will demonstrate the ability to receive notification from the licensee and verify the notification. The facilities will demonstrate activation in a timely manner after receiving

notification. A message will be entered into the Emergency Management Information Tracking System (EMITS) deploying personnel and task action updates will be made when the SEOC, JIC and SRMAC are operational.

CRITICAL TASK: Criterion 1.c.1.

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

Direction and Control will be demonstrated in accordance with the Radiological Annex to the State EOP and with the Browns Ferry Standard Operating Guide (SOG), scenario dependent. The SEOC will be activated and all requirements and activities to support the plan will be performed; actions required by the Emergency Management Coordinators (EMCs) will be coordinated through the SEOC Branch Directors, scenario dependent.

CRITICAL TASK: Criterion 1.e.1.

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

AEMA will demonstrate use of equipment, maps, displays and other supplies in the SEOC, SRMAC, and JIC, scenario dependent.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: Demonstrate the capability to implement emergency worker exposure control; KI decision for institutionalized individuals and the general public; protective actions for persons with disabilities and access/functional needs; schools; traffic and access control and impediments to evacuation.

Participants: SEOC Staff and EMCs.

CRITICAL TASK: Criterion 3.d.1.

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

AEMA will contact applicable rail and air traffic authorities, scenario dependent, at the SEOC. This will be demonstrated during the practice exercise May 3rd and the graded exercise June 28th.

CRITICAL TASK: Criterion 3.d.2.

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

AEMA will discuss coordination of state resources as requested by the counties at the SEOC,

scenario dependent during the practice exercise May 3rd and graded exercise June 28th.

CORE CAPABILITY: SITUATIONAL ASSESSMENT

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: ORO's demonstrate the capability to; assess and control the radiation exposure received by emergency workers; Radiological Assessment, Protective Action Recommendations, and Precautionary and/or Protective Action Decisions for the Plume Phase of the Emergency; and Precautionary and/or Protective Action Decision Consideration for the Protection of Persons with Disabilities and Access/Functional Needs.

Participants: SEOC staff and EMCs.

CRITICAL TASK: Criterion 2.b.2.

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

The Alabama Department of Public Health, Office of Radiation Control (ORC) is responsible for issuing the PADs. Prior to issuing a PAD the SEOC will conduct a State Coordinating Group (SCG) call to discuss the PAR received from the utility. Members of the SCG will ensure that all the offsite response organizations (ORO's) can implement the PAD in order to achieve the desired outcome. The SEOC will ensure the call is conducted in a timely manner and in accordance with set standards in the Radiological Annex to the State EOP and the Browns Ferry SOG, scenario dependent.

CORE CAPABILITY: OPERATIONAL COMMUNICATIONS

State/County EOCs, EOF.

Definition: 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.

CAPABILITY TARGET: COMMUNICATIONS EQUIPMENT

Performance Measure: OROs must demonstrate that a primary system and at least one backup system are fully functional at all times.

Participants: SEOC.

CRITICAL TASK: Criterion 1.d.1.

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

Communications systems will be demonstrated, scenario dependent during the practice exercise May 3rd and the grade June 28th. The ECNS Emergency Communications Notification System is the primary means of communication. Telephones, E-mails, EMITS and faxes will serve as secondary communications. Southern Linc radios may also be used.

CORE CAPABILITY: PUBLIC INFORMATION AND WARNING
State/County EOCs, and JIC.

Definition: 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.

CAPABILITY TARGET: EMERGENCY NOTIFICATION AND PUBLIC INFORMATION
Performance Measure: Participants: SEOC Staff and EMCs

CRITICAL TASK: Criterion 1.a.1.

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

On May 3rd and June 28th , 2017, AEMA Staff and SEOC Support Staff will be pre- positioned at the SEOC, (located at 5898 County Road 41, Clanton, AL) the SRMAC, and JIC. Additional State EOC staff, Emergency Management Coordinators, and will be alerted, notified and mobilized according to the Browns Ferry Nuclear Plant Notification List, and SOG. AEMA will simulate alerting, notifying, and mobilizing personnel. Pre-positioning is necessary due to the compression of the scenario and the distances involved in traveling to the various locations. AEMA will demonstrate the ability to receive notification from the licensee and verify the notification. The facilities will demonstrate activation in a timely manner after receiving notification. A message will be entered into the Emergency Management Information Tracking System (EMITS) deploying personnel and task action updates will be made when the SEOC, JIC and SRMAC are operational.

CRITICAL TASK: Criterion 1.d.1.

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

Communications systems will be demonstrated, scenario dependent. The PIO phone at the JIC

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

will be the primary means of communications with the JIC. Southern Linc, mobile phone, email and fax machine will serve as secondary communications.

CRITICAL TASK: Criterion 1.e.1.

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

Appropriate information and supplies for public information for use by the PIO at the JIC, will be available. This will be accomplished during the practice exercise May 3rd and the graded exercise June 28th scenario dependent.

CRITICAL TASK: 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 (Timely: The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay) (NUREG-0654 /FEMA REP-1, E.5, 6, 7; Criterion 5.a.1).

The SEOC will monitor TVA counties' coordination and PNS/EAS activation in accordance with the Radiological Annex to the State EOP and Browns Ferry SOG, scenario dependent.

CRITICAL TASK: Criterion 5.b.1.

OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner. The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay (NUREG-0654/ FEMA REP-1, E.5, 7; G.3.a; G.4.a, c; Criterion 5.b.1). Actual message distribution to the public and media will simulated. This will be demonstrated during the practice exercise May 3rd and graded exercise June 28th, scenario dependent.

SRMAC

EXTENT OF PLAY AGREEMENT

2017 BROWNS FERRY NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS EXERCISE

All activities will be demonstrated fully in accordance with respective plans and procedures as they would be in an actual emergency. The Federal Emergency Management Agency (FEMA) Regional Office must receive these plans, guides and procedures at least 60 days before the exercise. This Extent of Play Agreement (EOPA) is written by exception. If it is not listed as an exception it will be demonstrated as described in the plans, standard operating guides (SOGs) and/or procedures (SOPs). Any issue or discrepancy arising during exercise play may be re-demonstrated if allowed by the Regional Assistance Committee (RAC) Chair or as listed herein. This allowance may be granted if it is not disruptive to exercise play and is mutually agreed to by

the Offsite Response Organization (ORO) Exercise Controller and FEMA Evaluator. Some activities are requested to be performed as a training-only opportunity, and are identified in the participant description.

CORE CAPABILITY: SITUATIONAL ASSESSMENT

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: ORO's demonstrate the capability to; assess and control the radiation exposure received by emergency workers; Radiological Assessment, Protective Action Recommendations, and Precautionary and/or Protective Action Decisions for the Plume Phase of the Emergency; and Precautionary and/or Protective Action Decision Consideration for the Protection of Persons with Disabilities and Access/Functional Needs.

Participants: Alabama Department of Public Health/Office of Radiation Control (ADPH/ORC).

CRITICAL TASK: Criterion 2.b.1.

Appropriate PARs are based on available information on plant condition, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions (NUREG-0654/ FEMA REP-1, I. 10; Supp. 3; Criterion 2.b.1).

ADPH/ORC will review the TVA Protective Action Recommendations (PARs) and will demonstrate radiological assessment from the Montgomery SRMAC and/or the Decatur SRMAC; scenario dependent.

CRITICAL TASK: Criterion 2.b.2.

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

ADPH/ORC will demonstrate the decision-making process to make protective action decisions for the general public. Coordination of protective action decisions, once made, with the State of Alabama EMA and Browns Ferry Counties will be demonstrated.

CAPABILITY TARGET: COMMUNICATIONS EQUIPMENT

Performance Measure: OROs must demonstrate that a primary system and at least one backup system are fully functional at all times.

Participants: Alabama Department of Public Health/Office of Radiation Control (ADPH/ORC)
CRITICAL TASK Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. communications capabilities are managed in support of emergency operations (NUREG-4/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

ADPH/ORC will demonstrate communication capabilities at the appropriate locations (Montgomery SRMAC, Decatur SRMAC, JIC, and Radiological Field Monitoring Teams), and between governmental agencies.

CORE CAPABILITY: PUBLIC INFORMATION AND WARNING
State/County EOCs, and JIC.

Definition: 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.

CAPABILITY TARGET: EMERGENCY NOTIFICATION AND PUBLIC

INFORMATION

Performance Measure:

Participants: Alabama Department of Public Health/Office of Radiation Control (ADPH/ORC)
CRITICAL TASK: Criterion 1.a.1.

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

ADPH/ORC will simulate alerting, notifying and mobilizing emergency personnel. Personnel will be pre-positioned the Joint Information Center (JIC), 2055 Market Street, N.E., Decatur, AL. ADPH/ORC will demonstrate the ability to receive notification from the licensee and/or state and county agencies. The facilities will demonstrate activation in a timely manner, scenario dependent.

CRITICAL TASK: Criterion 1.d.1.

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

ADPH/ORC will demonstrate communication capabilities at the appropriate locations (Montgomery SRMAC, Decatur SRMAC, JIC, and Radiological Field Monitoring Teams), and between governmental agencies.

CRITICAL TASK: Criterion 1.e.1.

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

ADPH/ORC will have available equipment, maps, and displays that would be necessary to support emergency operations at the JIC, scenario dependent.

CRITICAL TASK: Criterion 5.b.1.

OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner. The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay (NUREG-0654/ FEMA REP-1, E.5, 7; G.3.a; G.4.a, c; Criterion 5.b.1).

ADPH/ORC will demonstrate coordination process; scenario dependent. Actual message distribution to the public and media will be simulated.

CORE CAPABILITY: ENVIRONMENTAL RESPONSE/HEALTH AND SAFETY

Definition: Ensure the availability of guidance and resources to address all hazards including hazardous materials, acts of terrorism, and natural disasters in support of the responder operations and the affected communities.

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: OROs authorized to send emergency workers into the plume exposure pathway EPZ must demonstrate a capability to assess and control the radiation exposure received by emergency workers and have a decision chain in place, as specified in the ORO's plans/procedures, to authorize emergency worker exposure limits to be exceeded for specific missions. As appropriate, OROs must demonstrate the capability to make decisions on the distribution and administration of KI as a protective measure for emergency workers.

Participants: Alabama Department of Public Health/Office of Radiation Control (ADPH/ORC).

CRITICAL TASK: Criterion 1.a.1.

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

ADPH/ORC will simulate alerting, notifying and mobilizing emergency personnel. Personnel will be pre-positioned at the RSA Tower, Suite 1250, SRMAC (room 1266) at 201 Monroe Street, Montgomery, AL, the Decatur SRMAC room in Morgan County EMA Office, basement of the Morgan County Courthouse, 302 Lee Street, Decatur, AL, and the radiological field monitoring teams will prepositioned at the Morgan County Health Department parking lot, 3821 U.S. Hwy 31S, Decatur, AL. ADPH/ORC will demonstrate the ability to receive notification from the licensee and/or state and county agencies. The facilities will demonstrate activation in a timely manner; scenario dependent.

CRITICAL TASK: Criterion 1.c.1.

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

ADPH/ORC will demonstrate direction and control from the Montgomery SRMAC and the Decatur SRMAC; scenario dependent.

CRITICAL TASK: Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations.

Communications capabilities are managed in support of emergency operations (NUREG- 0654/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

ADPH/ORC will demonstrate communication capabilities at the appropriate locations (Montgomery SRMAC, Decatur SRMAC, JIC, and Radiological Field Monitoring Teams), and between governmental agencies.

CRITICAL TASK: Criterion 1.e.1.

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

ADPH/ORC will have available equipment, maps, and displays that would be necessary to support emergency operations at the Montgomery SRMAC, Decatur SRMAC, and for the field teams; scenario dependent. Dosimetry, KI and monitoring/sampling equipment will be available for the field teams' demonstration, as needed.

CRITICAL TASK 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 EWs, including provisions to authorize radiation exposure in excess of administrative limits or PAGs (NUREG-0654/ FEMA REP-1, C.6; J.10.e, f; K.4 Criterion 2.a.1).

ADPH/ORC will demonstrate decision-making process from the Montgomery SRMAC and/or Decatur SRMAC; scenario dependent. If applicable, ADPH/ORC will discuss emergency worker exposure control decision-making for the Radiological Field Monitoring Teams only in SRMAC.

CRITICAL TASK: Criterion 2.b.1.

Appropriate PARs are based on available information on plant condition, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions (NUREG-0654/ FEMA REP-1, I. 10; Supp. 3; Criterion 2.b.1).

ADPH/ORC will review the TVA Protective Action Recommendations (PARs) and will

demonstrate radiological assessment from the Montgomery SRMAC and/or the Decatur SRMAC; scenario dependent.

CRITICAL TASK: Criterion 2.b.2.

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

ADPH/ORC will demonstrate the decision-making process to make protective action decisions for the general public. Coordination of protective action decisions, once made, with the State of Alabama EMA and Browns Ferry Counties will be demonstrated.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: OROs must demonstrate the capability to provide emergency workers (including supplemental resources) with the appropriate direct-reading and permanent record dosimetry, dosimeter chargers, KI, and instructions on the use of these items.

Participants: Alabama Department of Public Health/Office of Radiation Control (ADPH/ORC).

CRITICAL TASK: Criterion 3.a.1.

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

ADPH/ORC will demonstrate the implementation of emergency worker radiation exposure control and KI for the Radiological Field Monitoring Teams only, scenario dependent.

CAPABILITY TARGET: FIELD MEASUREMENT AND ANALYSIS

Participants: Alabama Department of Public Health/Office of Radiation Control (ADPH/ORC)

CRITICAL TASK: Criterion 4.a.2.

Field teams (two or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure (NUREG C.1; H.12; I.7, 8, 11; J.10.a; Criterion 4a2). ADPH/ORC will demonstrate field team management in the Montgomery SRMAC and/or the Decatur SRMAC; scenario dependent. Three (3) Radiological Field Monitoring Teams (RFMTs) will be dispatched into the field. Only two (2) field teams will be evaluated. RFMTs will use booties and gloves for contamination control for the air sampling demonstration only and simulate using them thereafter, scenario dependent.

LAUDERDALE COUNTY EXTENT OF PLAY AGREEMENT

2017 BROWNS FERRY NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS

EXERCISE

All activities will be demonstrated fully in accordance with respective plans and procedures, as they would be in an actual emergency. The Federal Emergency Management Agency (FEMA) Regional Office must receive these plans, guides and procedures at least 60 days before the exercise. This Extent of Play Agreement (EOPA) is written by exception. If it is not listed as an exception it will be demonstrated as described in the plans, standard operating guides (SOGs) and/or procedures (SOPs). Any issue or discrepancy arising during exercise play may be re-demonstrated if allowed by the Regional Assistance Committee (RAC) Chair or as listed herein. This allowance may be granted if it is not disruptive to exercise play and is mutually agreed to by the Offsite Response Organization (ORO) Exercise Controller and FEMA Evaluator. Some activities are requested to be performed as a training-only opportunity, and are identified in the participant description.

CORE CAPABILITY: OPERATIONAL COORDINATION

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: EMERGENCY OPERATIONS MANAGEMENT

Performance Measure: Procedures to alert and notify personnel will be demonstrated and personnel will respond only upon notification. Identified communications will be operational. Key personnel with leadership roles will provide direction and control. A particular facility's equipment and supplies must be sufficient and consistent with that facility's assigned role in the ORO's emergency operations plans. Specific equipment and supplies that must be demonstrated under this criterion include KI inventories, dosimetry, and monitoring equipment.

Participants: Lauderdale County EMA Staff, EOC Support Staff (if available), selected volunteers (if available), law enforcement personnel (if available) and Lauderdale County Health Department personnel.

CRITICAL TASK: Criterion 1.a.1.

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

Lauderdale County EMA: The Florence/Lauderdale EMA Staff will be pre-positioned at 8:00 a.m. at which normal duty hours begin. The Florence-Lauderdale EMA Emergency Operations Center (EOC) is located at 110 W. College Street Florence, Alabama in the basement of City Hall. The Florence-Lauderdale EMA Staff is comprised of a Director, Deputy Director, Planner, Two Assistants, a Secretary and Records Clerk. A few administrative volunteers may also be pre-positioned with the Florence-Lauderdale County EMA staff and JIC. A call list may be utilized to ensure all required personnel are alerted and notified the day of the exercise.

CRITICAL TASK Criterion 1.c.1.

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

Lauderdale County EMA – The Florence-Lauderdale EMA will demonstrate direction and control from the Lauderdale County EOC during the exercise on June 28, 2017.

CRITICAL TASK: Criterion 1.e.1.

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

Lauderdale County EMA: Equipment, maps, displays, and dosimetry will be in place and in use on June 28, 2017 during the exercise scenario dependent. The EMA Field Operations Building located at 702 Oak Street in Florence, Alabama houses field equipment including TLDs, dosimetry, and monitoring instruments and these units can be discussed during the out of sequence on May 12, 2017 at either the EOC or the Field Operations Building. KI inventory is maintained at the Lauderdale County Department of Public Health. KI discussion will occur May 12th during the out of sequence at the Health Department, 4112 Chisholm Road, Florence Alabama, and as required June 28th, scenario dependent.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: Demonstrate the capability to implement emergency worker exposure control; KI decision for institutionalized individuals and the general public; protective actions for persons with disabilities and access/functional needs; schools; traffic and access control and impediments to evacuation.

Participants: Lauderdale County EMA Staff, selected volunteers (if available), Lauderdale County Health Department, Law Enforcement and Volunteer Fire Department personnel (if available)

CRITICAL TASK: Criterion 3.a.1.

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

Lauderdale County EMA: Emergency worker exposure control will be discussed out of sequence on May 12, 2017 at the EOC with a member of local law enforcement (if available). Exposure control equipment will be pre-distributed for out of sequence having simulated the issuance procedures (i.e.: Traffic control units) when units are instructed to discuss their areas.

CRITICAL TASK: Criterion 3.b.1.

KI and appropriate instructions are available if a decision to recommend use of KI is made.

Appropriate record-keeping of the administration of KI for institutionalized individuals and the general public is maintained (NUREG-0654/FEMA REP-1, J.10.e, f; Criterion 3.b.1)

LAUDERDALE COUNTY EMA: There are not any institutions within the EPZ in Lauderdale County. KI interview will occur May 12th during the out of sequence at the Health Department, 4112 Chisholm Road, Florence Alabama, and discussed as required June 28th, scenario dependent.

CRITICAL TASK: Criterion 3.c.1.

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

Lauderdale County EMA: There are not any institutions within the EPZ in Lauderdale County. This task will be discussed during the exercise, scenario dependent. Interview/discussion of KI occurs during the out of sequence on May 12, 2017.

CRITICAL TASK: Criterion 3.d.1.

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

Lauderdale County EMA: Florence-Lauderdale EMA will discuss this criterion out of sequence on May 12, 2017 with applicable personnel at the EOC. Traffic Control and Access will be simulated the day of the exercise, scenario dependent. Local Law Enforcement from various depts. (as available) will participate. Actual demonstration will not be performed.

CRITICAL TASK: Criterion 3.d.2.

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

Lauderdale County EMA: Florence-Lauderdale EMA will discuss this criterion on June 28, 2017 with applicable personnel in our EOC or communications room, scenario dependent. Lauderdale County EOC Staff will participate. Actual demonstrations will not be performed.

CORE CAPABILITY: SITUATIONAL ASSESSMENT

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: ORO's demonstrate the capability to; assess and control the radiation

exposure received by emergency workers; Radiological Assessment, Protective Action Recommendations, and Precautionary and/or Protective Action Decisions for the Plume Phase of the Emergency; and Precautionary and/or Protective Action Decision Consideration for the Protection of Persons with Disabilities and Access/Functional Needs.

Participants: Lauderdale County EMA Staff, EOC Support Staff (if available), selected volunteers (if available), Lauderdale County Health Department, Law Enforcement and Volunteer Fire Department personnel (if available).

CRITICAL TASK Criterion 2.a.1.

OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers, including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654/FEMA REP-1, C.6; f; K.3.a; K.4; Criterion 2.a.1.). Lauderdale County EMA: This will be discussed during the exercise, scenario dependent. KI can be discussed during the out of sequence at the Health Department, 4112 Chisholm Road, Florence Alabama, on May 12, 2017.

CRITICAL TASK: Criterion 2.b.1.

Appropriate PARs are based on available information on plant condition, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions (NUREG-0654/ FEMA REP-1, I. 10; Supp. 3; Criterion 2.b.1). Lauderdale County EMA: Florence-Lauderdale EMA will discuss this criterion on June 28, 2017 with applicable personnel in our EOC or communications room. Lauderdale County EOC Staff will participate. Based on the Critical Task criteria, Lauderdale County has little, if any, input to PARs.

CRITICAL TASK: Criterion 2.b.2.

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

Lauderdale County EMA: Coordinates only. The Alabama Department of Public Health- Office of Radiation Control is responsible for issuing the PAD's. However after a PAD is issued, the county EMA reserves the right to review and/or recommend the PAD be changed due to any mitigating circumstances (road conditions, weather conditions, etc.), scenario dependent.

CRITICAL TASK: Criterion 2.c.1.

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

Lauderdale County EMA – This will be discussed during the exercise, scenario dependent.

CORE CAPABILITY: PUBLIC INFORMATION AND WARNING

State/County EOCs, and JIC

Definition: 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.

CAPABILITY TARGET: EMERGENCY NOTIFICATION AND PUBLIC INFORMATION
Performance Measure:

Participants: Lauderdale County EMA Staff, EOC Support Staff (if available), JIC support staff (if available), selected volunteers (if available), Law Enforcement and Volunteer Fire Department personnel (if available)
CRITICAL TASK: Criterion 1.a.1.

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

Lauderdale County EMA: The Florence/Lauderdale EMA Staff will be pre-positioned a.t 8:00 a.m. at which normal duty hours begin. The Florence-Lauderdale EMA Emergency Operations Center (EOC) is located at 110 W. College Street Florence, Alabama in the basement of City Hall. The Florence-Lauderdale EMA Staff is comprised of a Director, Deputy Director, Planner, Two Assistants, a Secretary and Records Clerk. A few administrative volunteers may also be pre-positioned with the Florence-Lauderdale County EMA staff and at the Joint Information Center (JIC). A call list may be utilized to ensure all required personnel are alerted and notified the day of the exercise.

CRITICAL TASK: Criterion 1.d.1.A.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations (NUREG-4/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

Lauderdale County EMA: Communications systems will be demonstrated, scenario dependent on June 28, 2017. The TVA ECNS (Emergency Communication and Notification System) is the primary means of communication. Land line phone is secondary along with EMITS, cell phones, email, fax machine, Southern Lincs, RF UHF and VHF radio systems.

CRITICAL TASK: Criterion 1.e.1.

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

Lauderdale County EMA: Equipment, maps, displays, and dosimetry will be in place and in use on June 28, 2017 during the exercise at the EOC and the JIC, scenario dependent. The EMA Field Operations Building located at 702 Oak Street in Florence, Alabama houses field equipment including TLDs, dosimetry, and monitoring instruments and these units can be discussed during the out of sequence on May 12, 2017 at either the EOC or the Field Operations Building.

CRITICAL TASK: Criterion 3.d.2.

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

Lauderdale County EMA: Florence-Lauderdale EMA will discuss this criterion on June 28, 2017 with applicable personnel in our EOC or communications room, and at the JIC, scenario dependent. Lauderdale County EOC Staff and JIC support staff (if available) will participate. Actual demonstrations will not be performed.

CRITICAL TASK 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 lude as a minimum the elements required by current FEMA REP guidance (Timely: The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay)

NUREG-0654 /FEMA REP-1, E.5, 6, 7; Criterion 5.a.1).

PNS coordination will be done via the ECNS and led by Madison County. The first siren activation will be demonstrated up to the point of PNS activation. Subsequent activations will be simulated, scenario dependent. The BFNPP counties have developed unified EAS and Special News Broadcast messages and distributed to the National Weather Service (NWS) Office in Huntsville. Madison County will coordinate the EAS/SNB messages with the BFNPP counties via the ECNS and designate to NWS via Southern Linc or landline phone which message to distribute. EAS message distribution will be the responsibility of the NWS.

CORE CAPABILITY: ON-SCENE SECURITY, PROTECTION, AND LAW ENFORCEMENT

TCPs and Waterway Warning

Definition: 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 all traditional and atypical response personnel engaged in lifesaving and life-sustaining operations.

CAPABILITY TARGET: COMMUNICATIONS EQUIPMENT

Performance Measure: OROs must demonstrate that a primary system and at least one backup

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

system are fully functional at all times.

Participants: Lauderdale County EMA Staff, EOC Support Staff (if available), selected volunteers (if available), Law Enforcement and Volunteer Fire Department personnel (if available)

CRITICAL TASK: Criterion 1.d.1.

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

Lauderdale County EMA: Communications systems will be demonstrated, scenario dependent on June 28, 2017. The TVA ECNS (Emergency Communication and Notification System) is the primary means of communication. Landline phone is secondary along with EMITS, cell phones, Southern Lincs, RF UHF and VHF radio systems.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: Demonstrate the capability to select, establish and staff traffic control and access points; identify and resolve impediments to evacuation; distribute dosimetry and KI; and implement and manage EW exposure control.

Participants: Lawrence County Sheriff's Department.

CRITICAL TASK: Criterion 1.e.1.

E K I equipment (to include communications), maps, displays, monitoring instruments, dosimetry, I, and other supplies are sufficient to support emergency operations (NUREG-0654 H.7, 10; .7, 8, 9; J.10.a, b, e; J.11, 12; K.3.a; K.5.b; Criterion 1.e.1).

Lauderdale County EMA: Equipment, maps, displays, and dosimetry will be in place and in use on June 28, 2017 during the exercise scenario dependent. The EMA Field Operations Building located at 702 Oak Street in Florence, Alabama houses field equipment including TLDs, dosimetry, and monitoring instruments and these units can be discussed during the out of sequence on May 12, 2017 at either the EOC or the Field Operations Building.

Emergency worker exposure control will be discussed out of sequence on May 12, 2017 at the EOC with a member of local law enforcement (if available).

CRITICAL TASK: Criterion 3.a.1.

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

Lauderdale County EMA: Emergency worker exposure control will be discussed out of sequence on May 12, 2017 at the EOC with a member of local law enforcement (if available). Exposure control equipment will be pre-distributed for out of sequence having simulated the issuance procedures (i.e.: Traffic Control units) when units are instructed to discuss their areas.

CRITICAL TASK: Criterion 3.d.1.

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

Lauderdale County EMA: Florence-Lauderdale EMA will discuss this criterion Out of Sequence on May 12, 2017 with applicable personnel at the EOC. Traffic Control and Access will be simulated the day of the exercise; scenario dependent. Local Law Enforcement, (if available), will participate.

LAWRENCE COUNTY EXTENT OF PLAY AGREEMENT

2017 BROWNS FERRY NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS EXERCISE

All activities will be demonstrated fully in accordance with respective plans and procedures as they would be in an actual emergency. The Federal Emergency Management Agency (FEMA) Regional Office must receive these plans, guides and procedures at least 60 days before the exercise. This Extent of Play Agreement (EOPA) is written by exception. If it is not listed as an exception it will be demonstrated as described in the plans, standard operating guides (SOGs) and/or procedures (SOPs). Any issue or discrepancy arising during exercise play may be re-demonstrated if allowed by the Regional Assistance Committee (RAC) Chair or as listed herein. This allowance may be granted if it is not disruptive to exercise play and is mutually agreed to by the Offsite Response Organization (ORO) Exercise Controller and FEMA Evaluator. Some activities are requested to be performed as a training-only opportunity, and are identified in the participant description.

CORE CAPABILITY: OPERATIONAL COORDINATION

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: EMERGENCY OPERATIONS MANAGEMENT

Performance Measure: Procedures to alert and notify personnel will be demonstrated and personnel will respond only upon notification. Identified communications will be operational. Key personnel with leadership roles will provide direction and control. A particular facility's equipment and supplies must be sufficient and consistent with that facility's assigned role in the ORO's emergency operations plans. Specific equipment and supplies that must be demonstrated under this criterion include KI inventories, dosimetry, and monitoring equipment.

Participants: EMA Staff, EOC Support Staff.

CRITICAL TASK: Criterion 1.a.1

OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

facilities in a timely manner (NUREG-0654/ FEMA REP-1, A.1.a, e; A.3, 4; C.1, 4, 6; D.4; E.1, 2; F.1, 2 H.3, 4; Criterion 1.a.1).

June 28, 2017, EMA Staff and EOC Support Staff will be pre-positioned at 8:00 a.m. at the Lawrence County EOC, located at 555 Walnut Street, AL.

The call out process for additional support staff will be discussed with no actual demonstration performed.

CRITICAL TASK: Criterion 1.c.1.

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

EMA will demonstrate direction and control in the EOC, scenario dependent.

CRITICAL TASK Criterion 1.e.1.

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

EMA will demonstrate use of equipment, maps, displays and other supplies in the EOC, scenario dependent.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: Demonstrate the capability to implement emergency worker exposure control; KI decision for institutionalized individuals and the general public; protective actions for persons with disabilities and access/functional needs; schools; traffic and access control and impediments to evacuation.

Participants: EMA Staff, EOC Support Staff, NARCOG Staff, Lawrence County Health Department Staff, Lawrence County Deputy Sheriff's.

CRITICAL TASK: Criterion 3.a.1.

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

Emergency workers will discuss exposure control, out of sequence, on May 10, 2017 at the EOC. The Radiological Officer issues dosimetry from the Emergency Worker Station at the Lawrence.

County EOC.

CRITICAL TASK Criterion 3.b.1.

KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record keeping of the administration of KI for institutionalized individuals and the general public is maintained (NUREG-0654/FEMA REP-1, J.10.e, f; Criterion 3.b.1) Demonstration will be performed by a Health Department representative, out of sequence, at Lawrence County EOC, located at 555 Walnut Street Moulton, AL 35650, on May 10, 2017. This will be discussed, scenario dependent, during the exercise, up to the point of actual distribution.

CRITICAL TASK: Criterion 3.c.1.

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

This will be discussed with a NARCOG representative out of sequence on May 10, 2017 at the Lawrence County EOC. This will be discussed during the June 28, 2017 exercise, scenario dependent.

CRITICAL TASK: Criterion 3.c.2.

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

This will be discussed during the June 28, 2017 exercise, scenario dependent.

CORE CAPABILITY: SITUATIONAL ASSESSMENT

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: ORO's demonstrate the capability to; assess and control the radiation exposure received by emergency workers; Radiological Assessment, Protective Action Recommendations, and Precautionary and/or Protective Action Decisions for the Plume Phase of the Emergency; and Precautionary and/or Protective Action Decision Consideration for the Protection of Persons with Disabilities and Access/Functional Needs.

Participants: EMA Staff, NARCOG Staff, Representatives from area School Systems.

CRITICAL TASK: Criterion 2.a.1.

OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers, including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654/FEMA REP-1, C.6; f; K.3.a; K.4; Criterion 2.a.1.). This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.1.

Appropriate PARs are based on available information on plant condition, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions (NUREG-0654/ FEMA REP-1, I. 10; Supp. 3; Criterion 2.b.1).

This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.2.

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

This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.c.1.

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

This will be discussed during the exercise, scenario dependent.

CORE CAPABILITY: OPERATIONAL COMMUNICATIONS

State/County EOCs, EOF

Definition: 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.

CAPABILITY TARGET: COMMUNICATIONS EQUIPMENT

Performance Measure: OROs must demonstrate that a primary system and at least one backup system are fully functional at all times.

Participants: EMA Staff, EOC Volunteer Staff

CRITICAL TASK: Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations.

Communications capabilities are managed in support of emergency operations (NUREG- 0654/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

Communications systems will be demonstrated, scenario dependent. The TVA ECNS is the primary means of communications. Southern Linc, telephones and fax machines will serve as secondary communications.

CORE CAPABILITY: PUBLIC INFORMATION AND WARNING
State/County EOCs, and JIC

Definition: 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.

CAPABILITY TARGET: EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Performance Measure:

Participants: EMA Staff, EOC Support Staff, Public Information Support Staff
CRITICAL TASK: Criterion 1.a.1.

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

June 28, 2017, EMA Staff and EOC Support Staff will be pre-positioned at 8:00 a.m. at the Lawrence County EOC, located at 555 Walnut Street, AL.

The call out process for additional support staff will be discussed with no actual demonstration.

CRITICAL TASK Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations (NUREG-4/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

Communications systems will be demonstrated, scenario dependent. The PIO phone at the JIC will be the primary means of communications with the JIC. Southern Linc, mobile phone, email and fax machine will serve as secondary communications.

CRITICAL TASK: Criterion 1.e.1.

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

Appropriate information and supplies for public information, including a Smart Book, for use by the PIO at the JIC, will be available. This will be accomplished during the exercise, scenario dependent.

CRITICAL TASK: Criterion 3.d.2.

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

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

The PIO, located at the Lawrence County EOC, will communicate to the JIC any impediments to evacuation. Should impediments to evacuation be identified, this information will be disseminated to the public. This will be accomplished during the exercise, scenario dependent.

CRITICAL TASK: 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 (Timely: The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay) UREG-0654 /FEMA REP-1, E.5, 6, 7; Criterion 5.a.1).

PNS coordination will be done via the ECNS and led by Madison County EMA. The first siren activation will be demonstrated up to the point of activation, scenario dependent. Subsequent activations will be simulated, scenario dependent. The BFNPP counties have developed unified EAS and Special News Broadcast messages and distributed to the National Weather Service Office in Huntsville (NWS). Madison County EMA will coordinate the EAS/SNB messages with the BFNPP counties via the ECNS and designate to (NWS) via landline phone or Southern Linc, which message to distribute. EAS message distribution will be the responsibility of the (NWS), and simulated for this exercise.

CRITICAL TASK: Criterion 5.b.1.

OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner. The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay (NUREG-0654/ FEMA REP-1, E.5, 7; G.3.a; G.4.a, c; Criterion .b.1).

The BFNPP counties have developed unified EAS and Special News Broadcast messages and distributed to the National Weather Service Office in Huntsville (NWS). Madison County EMA will coordinate the EAS/SNB messages with the BFNPP counties via the ECNS and designate to (NWS) via Southern Linc or landline phone which message to distribute. EAS message distribution will be the responsibility of (NWS) and simulated for this exercise. (Scenario dependent) Lawrence County will develop and issue county specific messages.

CORE CAPABILITY: ENVIRONMENTAL RESPONSE/HEALTH AND SAFETY

Definition: Ensure the availability of guidance and resources to address all hazards including hazardous materials, acts of terrorism, and natural disasters in support of the responder operations and the affected communities.

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: OROs authorized to send emergency workers into the plume exposure pathway EPZ must demonstrate a capability to assess and control the radiation exposure received by emergency workers and have a decision chain in place, as specified in the ORO's plans/procedures, to authorize emergency worker exposure limits to be exceeded for specific missions. As appropriate, OROs must demonstrate the capability to make decisions on the distribution and administration of KI as a protective measure for emergency workers.

Participants: EMA Staff, EOC Support Staff and Volunteers.

CRITICAL TASK: Criterion 1.a.1.

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

June 28, 2017, EMA Staff and EOC Support Staff will be pre-positioned at 8:00 a.m. at the Lawrence County EOC, located at 555 Walnut Street, AL.

The call out process for additional support staff will be discussed with no actual demonstration performed

CRITICAL TASK: Criterion 1.c.1.

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

Demonstration of direction and control will be performed according to plans and procedures, scenario dependent.

CRITICAL TASK: Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations (NUREG-4/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

Communications systems will be demonstrated, scenario dependent. The TVA ECNS is the primary means of communications with AEMA. Southern Linc, mobile phones, landline phones, two-way radio and HAM radio will serve as secondary communications with field units and other facilities.

CRITICAL TASK: Criterion 1.e.1.

Equipment, maps, displays, monitoring instruments, dosimetry, KI, and other supplies are

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

sufficient to support emergency operations (NUREG-0654/ FEMA REP-1, H.7, 10; I.7, 8, 9; J.10.a, b, e; J.11, 12; K.3.a; K.5.b; Criterion 1.e.1).

An adequate supply of thermos-luminescent dosimeters (TLDs) and dosimetry will be available for the emergency workers. This will be discussed out of sequence at the Lawrence County EOC on May 10, 2017.

The supply of KI will be viewed out of sequence, at the Lawrence County Health Department, located at 13299 Alabama Highway 157 Moulton, Al 35650 on May 10, 2017.

CRITICAL TASK: 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 EWs, including provisions to authorize radiation exposure in excess of administrative limits or PAGs (NUREG-0654/ FEMA REP-1, C.6; J.10.e, f; K.4 Criterion 2.a.1).

This will be discussed during the exercise, scenario dependent.

CRITICAL TASK Criterion 2.b.1.

Appropriate PARs are based on available information on plant condition, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions (NUREG-0654/ FEMA REP-1, I. 10; Supp. 3; Criterion 2.b.1).

This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.2.

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

This will be discussed during the exercise, scenario dependent.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: OROs must demonstrate the capability to provide emergency workers (including supplemental resources) with the appropriate direct-reading and permanent record dosimetry, dosimeter chargers, KI, and instructions on the use of these items.

Participants: EMA Staff, EMA Volunteers, Lawrence County Department of Public Health, Lawrence County Volunteer Fire Department, Lawrence County Department of Human Resources.

CRITICAL TASK: Criterion 3.a.1.

OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure of EWs in accordance with the plans/procedures. EWs periodically and at the end of each mission

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

read their dosimeters and record the readings on the appropriate exposure record chart. OROs maintain appropriate record keeping of the administration of KI to EWs UREG-0654/FEMA REP-1, J.10.e, K.3.a, b, K.4; Criterion 3.a.1).

Emergency workers will discuss exposure control, out of sequence, on May 10, 2017 at the EOC.

CRITICAL TASK: Criterion 3.b.1.

At appropriate instructions and I are available if a decision to recommend use of KI is made. Appropriate record keeping of the administration of KI for institutionalized individuals and the general public is maintained (NUREG-0654/ FEMA REP-1, J.10.e, f; Criterion 3.b.1). This will be discussed with a Health Department representative, out of sequence, at Lawrence County EOC on May 10, 2017.

CRITICAL TASK Criterion 6.a.1.

The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees (NUREG- 654 A.3; C.4; J.10.h; J.12; Criterion 6.a.1.).

This task will not be demonstrated. This will be discussed, scenario dependent.

CRITICAL TASK: Criterion 1.d.1.

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

A representative from the Lawrence County Sheriff's Office will discuss communications, out of sequence, on May 10, 2017 at the Lawrence County EOC.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: Demonstrate the capability to select, establish and staff traffic control and access points; identify and resolve impediments to evacuation; distribute dosimetry and KI; and implement and manage EW exposure control.

Participants: Lawrence County Sheriff's Department.

CRITICAL TASK: Criterion 1.e.1.

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

Thermo-luminescent dosimeters (TLDs) and dosimetry will be distributed to available emergency workers at the Lawrence County EOC, out of sequence, on May 10, 2017.

CRITICAL TASK Criterion 3.a.1.

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

Emergency workers will discuss exposure control, out of sequence, on May 10, 2017 at the EOC.

CRITICAL TASK: Criterion 3.d.1.

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

A representative from the Lawrence County Sheriff's Office will discuss traffic and access control, out of sequence, on May 10, 2017 at the Lawrence County EOC. Actual demonstration will not be performed.

CORE CAPABILITY: MASS CARE SERVICES

Shelters

Definition: 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.

CAPABILITY TARGET: SUPPORT OPERATIONS AND FACILITIES

Performance Measure: OROs establish congregate care centers based upon sheltering plan.

Participants: American Red Cross.

CRITICAL TASK: Criterion 6.c.1.

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

This element will be demonstrated by discussion, out of sequence, at the Moulton Church of Christ located at 597 Main Street on May 10, 2017. Actual setup of the Mass Care Center will not be performed. Activation of Mass Care Shelters during the exercise will be simulated, scenario dependent.

LIMESTONE COUNTY EXTENT OF PLAY AGREEMENT

2017 BROWNS FERRY NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS EXERCISE

All activities will be demonstrated fully in accordance with respective plans and procedures as they would be in an actual emergency. The Federal Emergency Management Agency (FEMA) Regional Office must receive these plans, guides and procedures at least 60 days before the exercise. This Extent of Play Agreement (EOPA) is written by exception. If it is not listed as an exception it will be demonstrated as described in the plans, standard operating guides (SOGs) and/or procedures (SOPs). Any issue or discrepancy arising during exercise play may be re-demonstrated if allowed by the Regional Assistance Committee (RAC) Chair or as listed herein. This allowance may be granted if it is not disruptive to exercise play and is mutually agreed to by the Offsite Response Organization (ORO) Exercise Controller and FEMA Evaluator. Some activities are requested to be performed as a training-only opportunity, and are identified in the participant description.

CORE CAPABILITY: OPERATIONAL COORDINATION

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: EMERGENCY OPERATIONS MANAGEMENT

Performance Measure: Procedures to alert and notify personnel will be demonstrated and personnel will respond only upon notification. Identified communications will be operational. Key personnel with leadership roles will provide direction and control. A particular facility's equipment and supplies must be sufficient and consistent with that facility's assigned role in the ORO's emergency operations plans. Specific equipment and supplies that must be demonstrated under this criterion include KI inventories, dosimetry, and monitoring equipment.

Participants: EMA Staff, EOC Support Staff.

CRITICAL TASK: Criterion 1.a.1

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

On June 28, 2017, EMA Staff and some of the EOC Support Staff will be pre-positioned at 8:00 a.m. at the Limestone County EOC, located at 1011 W. Market St., Athens, AL. Additional EOC staff, public officials, and department heads will be alerted, notified and mobilized according to the Browns Ferry Nuclear Plant Notification List.

CRITICAL TASK: Criterion 1.c.1.

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

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

6; Criterion 1.c.1).

EMA will demonstrate direction and control in the EOC, scenario dependent.

CRITICAL TASK: Criterion 1.e.1.

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

EMA will demonstrate use of equipment, maps, displays and other supplies in the EOC, scenario dependent.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: Demonstrate the capability to implement emergency worker exposure control; KI decision for institutionalized individuals and the general public; protective actions for persons with disabilities and access/functional needs; schools; traffic and access control and impediments to evacuation.

Participants: EMA Staff, EOC Support Staff, Limestone County Council on Aging Staff, Limestone County Health Department Staff, Lindsay Lane Christian Academy Representative, Limestone County Deputy, Athens-Limestone Rescue Squad Member.

CRITICAL TASK: Criterion 3.a.1.

The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record- keeping of the administration of KI to emergency workers. (NUREG-0654/FEMA-REP-1, K.3.a, b; K.4; Criterion 3.a.1). Emergency workers will discuss exposure control, out of sequence, on May 11, 2017 at the EOC. The Radiological Officer issues dosimetry from the Emergency Worker Station at the Athens-Limestone Rescue Squad building.

CRITICAL TASK Criterion 3.b.1.

KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record keeping of the administration of KI for institutionalized individuals and the general public is maintained (NUREG-0654/FEMA REP-1, J.10.e, f; Criterion 3.b.1). Demonstration will be performed by a Health Department representative, out of sequence, at Elkmont High School, located at 25630 Evans Ave, Elkmont, AL 35620, on May 11, 2017. This will be discussed, scenario dependent, during the exercise, up to the point of actual distribution.

CRITICAL TASK: Criterion 3.c.1.

Precautionary and/or protective action decisions are implemented for persons with disabilities

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

and access/ functional needs, other than schools, within areas subject to protective actions. (NUREG-0654/FEMA-REP-1, J.10.c, d, e, g; Criterion 3.c.1).

This will be discussed with a Limestone County Council on Aging representative during the exercise, scenario dependent.

CRITICAL TASK: Criterion 3.c.2.

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

This will be discussed by interview with a representative from Lindsay Lane Christian Academy, out of sequence, at the EOC on May 11, 2017.

CORE CAPABILITY: SITUATIONAL ASSESSMENT

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: ORO's demonstrate the capability to; assess and control the radiation exposure received by emergency workers; Radiological Assessment, Protective Action Recommendations, and Precautionary and/or Protective Action Decisions for the Plume Phase of the Emergency; and Precautionary and/or Protective Action Decision Consideration for the Protection of Persons with Disabilities and Access/Functional Needs.

Participants: EMA Staff, Limestone County Council on Aging Staff, Representatives from area School Systems.

CRITICAL TASK: Criterion 2.a.1.

OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers, including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654/FEMA REP-1, C.6; f; K.3.a; K.4; Criterion 2.a.1.). This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.1.

Appropriate PARs are based on available information on plant condition, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions (NUREG-0654/ FEMA REP-1, I. 10; Supp. 3; Criterion 2.b.1). This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.2.

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

This will be discussed during the exercise, scenario dependent.

CRITICAL TASK Criterion 2.c.1.

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

This will be discussed during the exercise, scenario dependent.

CORE CAPABILITY: OPERATIONAL COMMUNICATIONS

State/County EOCs, EOF

Definition: 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.

CAPABILITY TARGET: COMMUNICATIONS EQUIPMENT

Performance Measure: OROs must demonstrate that a primary system and at least one backup system are fully functional at all times.

Participants: EMA Staff, EOC Volunteer Staff.

CRITICAL TASK: Criterion 1.d.1.

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

Communications systems will be demonstrated, scenario dependent. The TVA ECNS is the primary means of communications. Southern Linc, telephones and fax machines will serve as secondary communications.

CORE CAPABILITY: PUBLIC INFORMATION AND WARNING

State/County EOCs, and JIC.

Definition: Deliver coordinated, prompt, reliable, and actionable information to the whole community through the use of clear, consistent, accessible, and culturally and linguistically

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

appropriate methods to effectively relay information regarding any threat or hazard and, as appropriate, the actions being taken and the assistance being made available.

CAPABILITY TARGET: EMERGENCY NOTIFICATION AND PUBLIC INFORMATION
Performance Measure:

Participants: EMA Staff, EOC Support Staff, Public Information Support Staff.

CRITICAL TASK: Criterion 1.a.1.

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

EMA Staff and some EOC Support Staff will be pre-positioned at 8:00 a.m. at the Limestone County EOC. Public Information Support Staff and JIC personnel will be alerted and mobilized according to the Browns Ferry Nuclear Plant Notification List.

CRITICAL TASK: Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations.

Communications capabilities are managed in support of emergency operations (NUREG- 0654/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

Communications systems will be demonstrated, scenario dependent. The PIO phone at the JIC will be the primary means of communications with the JIC. Southern Linc, mobile phone, email and fax machine will serve as secondary communications.

CRITICAL TASK: Criterion 1.e.1.

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

Appropriate information and supplies for public information, including a Smart Book, for use by the PIO at the JIC, will be available. This will be accomplished during the exercise, scenario dependent.

CRITICAL TASK: Criterion 3.d.2.

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

The PIO, located at the Limestone County EOC, will communicate to the JIC any impediments to evacuation. Should impediments to evacuation be identified, this information will be disseminated to the public. This will be accomplished during the exercise, scenario dependent.

CRITICAL TASK 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 (Timely: The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay)

UREG-0654 /FEMA REP-1, E.5, 6, 7; Criterion 5.a.1).

PNS coordination will be done via the ECNS and led by Madison County EMA. The first siren activation will be demonstrated up to the point of activation, scenario dependent. Subsequent activations will be simulated, scenario dependent. The BFNPP counties have developed unified EAS and Special News Broadcast messages and distributed to the National Weather Service Office in Huntsville (NWS). Madison County EMA will coordinate the EAS/SNB messages with the BFNPP counties via the ECNS and designate to (NWS) via landline phone or Southern Linc, which message to distribute. EAS message distribution will be the responsibility of the (NWS), and simulated for this exercise.

CRITICAL TASK: Criterion 5.b.1.

OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner. The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay (NUREG-0654/ FEMA REP-1, E.5, 7; G.3.a; G.4.a, c; Criterion .b.1).

The BFNPP counties have developed unified EAS and Special News Broadcast messages and distributed to the National Weather Service Office in Huntsville (NWS). Madison County EMA will coordinate the EAS/SNB messages with the BFNPP counties via the ECNS and designate to (NWS) via Southern Linc or landline phone which message to distribute. EAS message distribution will be the responsibility of (NWS) and simulated for this exercise. (Scenario dependent) Limestone County will develop and issue county specific messages.

CORE CAPABILITY: ENVIRONMENTAL RESPONSE/HEALTH AND SAFETY

Definition: Ensure the availability of guidance and resources to address all hazards including hazardous materials, acts of terrorism, and natural disasters in support of the responder operations and the affected communities.

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: OROs authorized to send emergency workers into the plume exposure pathway EPZ must demonstrate a capability to assess and control the radiation exposure received by emergency workers and have a decision chain in place, as specified in the ORO's plans/procedures, to authorize emergency worker exposure limits to be exceeded for specific

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

missions. As appropriate, OROs must demonstrate the capability to make decisions on the distribution and administration of KI as a protective measure for emergency workers. Participants: EMA Staff, EOC Support Staff, Volunteers, and Limestone County and City of Athens public officials and department heads.

CRITICAL TASK: Criterion 1.a.1.

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

EMA Staff and some EOC Support Staff will be pre-positioned at 8:00 a.m. at the Limestone County EOC. Additional support personnel will be alerted and mobilized according to established plans and procedures.

CRITICAL TASK: Criterion 1.c.1.

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

Demonstration of direction and control will be performed according to plans and procedures, scenario dependent.

CRITICAL TASK: Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations (NUREG-4/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

Communications systems will be demonstrated, scenario dependent. The TVA ECNS is the primary means of communications with AEMA. Southern Linc, mobile phones, landline phones, two-way radio and HAM radio will serve as secondary communications with field units and other facilities.

CRITICAL TASK: Criterion 1.e.1.

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

An adequate supply of thermos-luminescent dosimeters (TLDs) and dosimetry will be available for the emergency workers. This will be discussed out of sequence at the Limestone County EOC on May 11, 2017.

The supply of KI will be viewed out of sequence, at the Limestone County Health Department, located at 20371 Clyde Mabry Dr., Athens, AL on May 11, 2017.

CRITICAL TASK: 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 EWs, including provisions to authorize radiation exposure in excess of administrative limits or PAGs (NUREG-0654/ FEMA REP-1, C.6; J.10.e, f; K.4 Criterion 2.a.1).

This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.1.

Appropriate PARs are based on available information on plant condition, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions (NUREG-0654/ FEMA REP-1, I. 10; Supp. 3; Criterion 2.b.1).

This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.2.

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

This will be discussed during the exercise, scenario dependent.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: OROs must demonstrate the capability to provide emergency workers (including supplemental resources) with the appropriate direct-reading and permanent record dosimetry, dosimeter chargers, KI, and instructions on the use of these items.

Participants: EMA Staff, EMA Volunteers, Limestone County Department of Public Health, Limestone County Volunteer Fire Department, Limestone County Department of Human Resources

CRITICAL TASK: Criterion 3.a.1.

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

Emergency workers will discuss exposure control, out of sequence, on May 11, 2017 at the EOC.

CRITICAL TASK: Criterion 3.b.1.

Appropriate instructions are available if a decision to recommend use of KI is made. appropriate

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

record keeping of the administration of KI for institutionalized individuals and the general public is maintained (NUREG-0654/ FEMA REP-1, J.10.e, f; Criterion 3.b.1).

This will be discussed with a Health Department representative, out of sequence, at Elkmont High School on May 11, 2017.

CRITICAL TASK: Criterion 6.a.1.

The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees (NUREG- 654 A.3; C.4; J.10.h; J.12; Criterion 6.a.1.).

Monitoring, decontamination and registration of evacuees will be demonstrated, out of sequence, at the Reception Center at Elkmont High School, located at 25630 Evans Ave, Elkmont, AL, on May 11, 2017. Vehicle monitoring and decontamination will not be demonstrated. Protective clothing for emergency workers/evacuees will not be issued and actual decon will be simulated. Since male and female decon is mirrored, only male decon will be demonstrated. Limestone County will not demonstrate monitoring, decon and registration during the exercise on June 28, 2017.

CORE CAPABILITY: ON-SCENE SECURITY, PROTECTION, AND LAW ENFORCEMENT

TCPs and Waterway Warning.

Definition: 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 all traditional and atypical response personnel engaged in lifesaving and life-sustaining operations.

CAPABILITY TARGET: COMMUNICATIONS EQUIPMENT

Performance Measure: OROs must demonstrate that a primary system and at least one backup system are fully functional at all times.

Participants: Limestone County Sheriff's Department.

CRITICAL TASK: Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations.

Communications capabilities are managed in support of emergency operations (NUREG- 0654/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

A representative from the Limestone County Sheriff's Office will discuss communications, out of sequence, on May 11, 2017 at the Limestone County EOC.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

Performance Measure: Demonstrate the capability to select, establish and staff traffic control and access points; identify and resolve impediments to evacuation; distribute dosimetry and KI; and implement and manage EW exposure control.

Participants: Limestone County Sheriff's Department
CRITICAL TASK: Criterion 1.e.1.

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

Thermo-luminescent dosimeters (TLDs) and dosimetry will be distributed to available emergency workers at the Limestone County EOC, out of sequence, on May 11, 2017.

CRITICAL TASK: Criterion 3.a.1.

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

Emergency workers will discuss exposure control, out of sequence, on May 11, 2017 at the EOC.

CRITICAL TASK: Criterion 3.d.1.

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

A representative from the Limestone County Sheriff's Office, will discuss traffic and access control, out of sequence, on May 11, 2017 at the Limestone County EOC. Actual demonstration will not be performed.

CRITICAL TASK: Criterion 3.d.2.

Impediments to evacuation are identified and resolved (NUREG-0654 J.10.k; Criterion 3.d.2.).
A representative from the Limestone County Sheriff's Office, will discuss impediments to evacuation, out of sequence, on May 11, 2017 at the Limestone County EOC.

MADISON COUNTY EXTENT OF PLAY AGREEMENT

2017 BROWNS FERRY NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS EXERCISE

All activities will be demonstrated fully in accordance with respective plans and procedures as they would be in an actual emergency. The Federal Emergency Management Agency (FEMA) Regional Office must receive these plans, guides and procedures at least 60 days before the exercise. This Extent of Play Agreement (EOPA) is written by exception. If it is not listed as an exception it will be demonstrated as described in the plans, standard operating guides (SOGs)

and/or procedures (SOPs). Any issue or discrepancy arising during exercise play may be re-demonstrated if allowed by the Regional Assistance Committee (RAC) Chair or as listed herein. This allowance may be granted if it is not disruptive to exercise play and is mutually agreed to by the Offsite Response Organization (ORO) Exercise Controller and FEMA Evaluator. Some activities are requested to be performed as a training-only opportunity, and are identified in the participant description.

CORE CAPABILITY: OPERATIONAL COORDINATION

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: EMERGENCY OPERATIONS MANAGEMENT

Performance Measure: Procedures to alert and notify personnel will be demonstrated and personnel will respond only upon notification. Identified communications will be operational. Key personnel with leadership roles will provide direction and control. A particular facility's equipment and supplies must be sufficient and consistent with that facility's assigned role in the ORO's emergency operations plans. Specific equipment and supplies that must be demonstrated under this criterion include KI inventories, dosimetry, and monitoring equipment.

Participants: EMA Staff, EOC Support Staff.

CRITICAL TASK: Criterion 1.a.1.

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

Madison County EMA: On June 28, 2017, EMA Staff will be pre-positioned at the EOC, located 320 Fountain Circle, Huntsville, AL. A call-down list will be utilized.

CRITICAL TASK: Criterion 1.c.1.

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

Madison County EMA: EMA will demonstrate direction and control from the EOC scenario dependent.

CRITICAL TASK: Criterion 1.e.1.

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

Madison County EMA: The Madison County EMA will have available equipment, maps and displays that would be necessary to support emergency operations. These will be viewed at the

Madison County EOC out of sequence on May 8, 2017. Dosimetry will be viewed out of sequence on May 8, 2017 at the EOC.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: Demonstrate the capability to implement emergency worker exposure control; KI decision for institutionalized individuals and the general public; protective actions for persons with disabilities and access/functional needs; schools; traffic and access control and impediments to evacuation.

Participants: EMA Staff, EOC Support Staff.

CRITICAL TASK: Criterion 3.d.1.

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

Madison County EMA: County EMA will discuss this criterion out of sequence on May 8, 2017 with law enforcement personnel in the EOC. Actual demonstrations will not be performed.

CRITICAL TASK: Criterion 3.d.2.

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

Madison County EMA: County EMA will discuss this criterion out of sequence on May 8, 2017 with law enforcement personnel in the EOC. Actual demonstrations will not be performed.

CORE CAPABILITY: PUBLIC INFORMATION AND WARNING

State/County EOCs, and JIC

Definition: 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.

CAPABILITY TARGET: EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Performance Measure:

Participants: EMA Staff, EOC Support Staff, Public Information Support Staff.

CRITICAL TASK: Criterion 1.a.1.

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

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

EMA Staff and some EOC Support Staff will be pre-positioned at 8:00 a.m. at the Madison County EOC. Public Information Support Staff and JIC personnel will be alerted and mobilized according to the Browns Ferry Nuclear Plant Notification List.

CRITICAL TASK Criterion 1.d.1.

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

Communications systems will be demonstrated, scenario dependent. The PIO phone at the JIC will be the primary means of communications with the JIC. Southern Linc, mobile phone, email and fax machine will serve as secondary communications.

CRITICAL TASK: Criterion 1.e.1.

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

Appropriate information and supplies for public information will be available. This will be accomplished during the exercise, scenario dependent.

CRITICAL TASK: Criterion 3.d.2.

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

Should impediments to evacuation be identified, this information will be disseminated to the public. This will be accomplished during the exercise, scenario dependent.

CRITICAL TASK: 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 (Timely: The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay) (NUREG-0654/FEMA REP-1, E.5, 6, 7; Criterion 5.a.1).

PNS coordination will be done via the ECNS and led by Madison County. Siren activation will be simulated for PNS activation by each county (scenario dependent). The BFNPP counties have developed unified EAS and Special News Broadcast messages and distributed to the National Weather Service Office in Huntsville (NWS). Madison County will coordinate the EAS/SNB messages with the BFNPP counties via the ECNS and designated to the NWS via Southern Linc radio or landline phone which message to distribute. EAS message distribution

will be the responsibility of the NWS, and simulated for this exercise.

CORE CAPABILITY: ENVIRONMENTAL RESPONSE/HEALTH AND SAFETY

Definition: Ensure the availability of guidance and resources to address all hazards including hazardous materials, acts of terrorism, and natural disasters in support of the responder operations and the affected communities.

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: OROs authorized to send emergency workers into the plume exposure pathway EPZ must demonstrate a capability to assess and control the radiation exposure received by emergency workers and have a decision chain in place, as specified in the ORO's plans/procedures, to authorize emergency worker exposure limits to be exceeded for specific missions. As appropriate, OROs must demonstrate the capability to make decisions on the distribution and administration of KI as a protective measure for emergency workers.

Participants: EMA Staff, EOC Support Staff, Volunteers

CRITICAL TASK: Criterion 1.a.1.

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

EMA Staff will be pre-positioned at 8:00 a.m. at the Madison County EOC. Additional support personnel will be alerted and mobilized according to established plans and procedures.

CRITICAL TASK: Criterion 1.c.1.

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

Demonstration of direction and control will be performed according to plans and procedures, scenario dependent.

CRITICAL TASK Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations.

Communications capabilities are managed in support of emergency operations (NUREG- 0654/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

Communications systems will be demonstrated, scenario dependent on June 28, 2017. The TVA ECNS phone is the primary means of communications. SouthernLinc, telephones and fax machines will serve as secondary communications.

CRITICAL TASKL: Criterion 1.e.1.

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

The Madison County EMA will have available equipment, maps and displays that would be necessary to support emergency operations. These will be viewed at the Madison County EOC out of sequence on May 8, 2017. Dosimetry will be viewed out of sequence on May 8, 2017 at the EOC.

CRITICAL TASK: 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 EWs, including provisions to authorize radiation exposure in excess of administrative limits or PAGs (NUREG-0654/ FEMA REP-1, C.6; J.10.e, f; K.4 Criterion 2.a.1).

This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.1.

Appropriate PARs are based on available information on plant condition, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions (NUREG-0654/ FEMA REP-1, I. 10; Supp. 3; Criterion 2.b.1). This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.2.

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

Criterion 2.b.2).

This will be discussed during the exercise, scenario dependent.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: OROs must demonstrate the capability to provide emergency workers (including supplemental resources) with the appropriate direct-reading and permanent record dosimetry, dosimeter chargers, KI, and instructions on the use of these items.

Participants: EMA Staff, EMA Volunteers.

CRITICAL TASK: Criterion 3.a.1.

Radiological Emergency Preparedness Program

After Action Report

2017 Browns Ferry Nuclear Power Plant

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

Emergency worker exposure control will be discussed, out of sequence, on May 8, 2017 at the EOC.

CRITICAL TASK Criterion 3.b.1.

Appropriate instructions are available if a decision to recommend use of KI is made.

Appropriate record-keeping of the administration of KI for institutionalized individuals and the general public is maintained (NUREG-0654/ FEMA REP-1, J.10.e, f; Criterion 3.b.1).

KI will be discussed, out of sequence, on May 8, 2017 at the EOC. KI will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 6.a.1.

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

Madison County EMA; The registration component of this criterion will be demonstrated by AL DHR and American Red Cross, out of sequence on May 8, 2017 at the Dublin Park Recreation Center, 8324 Old Madison Pike in Madison. The use of Reception Centers will be simulated, scenario dependent, during the June 28, 2017 exercise. Monitoring and Decontamination for Evacuees and Emergency Workers is not applicable. Actual demonstration of decontamination will not be performed.

CORE CAPABILITY: MASS CARE SERVICES

Shelters

Definition: 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.

CAPABILITY TARGET: SUPPORT OPERATIONS AND FACILITIES

Performance Measure: OROs establish congregate care centers based upon sheltering plan.

Participants: American Red Cross.

CRITICAL TASK: Criterion 6.c.1.

Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate before entering congregate care facilities (NUREG-0654; J.10.h;

J.12; Criterion 6.c.1.).

Madison County EMA; This criterion will be discussed by the American Red Cross, out of sequence on May 8, 2017 at The Dublin Park Recreation Center, 8324 Old Madison Pike in Madison. Appropriate shelter information will be provided to the evaluators during the interview. Use of Mass Care facilities will be simulated during the June 28, 2017 exercise.

**MORGAN COUNTY EXTENT OF PLAY AGREEMENT
2017 BROWNS FERRY NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS
EXERCISE**

All activities will be demonstrated fully in accordance with respective plans and procedures as they would be in an actual emergency. The Federal Emergency Management Agency (FEMA) Regional Office must receive these plans, guides and procedures at least 60 days before the exercise. This Extent of Play Agreement (EOPA) is written by exception. If it is not listed as an exception, it will be demonstrated as described in the plans, standard operating guides (SOGs) and/or procedures (SOPs). Any issue or discrepancy arising during exercise play may be re-demonstrated if allowed by the Regional Assistance Committee (RAC) Chair or as listed herein. This allowance may be granted if it is not disruptive to exercise play and is mutually agreed to by the Offsite Response Organization (ORO) Exercise Controller and FEMA Evaluator. Some activities are requested to be performed as a training-only opportunity, and are identified in the participant description.

CORE CAPABILITY: OPERATIONAL COORDINATION

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: EMERGENCY OPERATIONS MANAGEMENT

Performance Measure: Procedures to alert and notify personnel will be demonstrated and personnel will respond only upon notification. Identified communications will be operational. Key personnel with leadership roles will provide direction and control. A particular facility's equipment and supplies must be sufficient and consistent with that facility's assigned role in the ORO's emergency operations plans. Specific equipment and supplies that must be demonstrated under this criterion include KI inventories, dosimetry, and monitoring equipment.

Participants: EMA Staff, EOC Support Staff.

CRITICAL TASK: Criterion 1.a.1.

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

On June 28, 2017, EMA Staff and some of the EOC Support Staff will be pre-positioned at 8:00

a.m. at the Morgan County EOC, located at 302 Lee Street N.E., Decatur, AL. The call-out for additional support EOC staff, public officials, and department heads will be discussed, with no actual demonstration performed.

CRITICAL TASK: Criterion 1.c.1.

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

EMA will demonstrate direction and control in the EOC, scenario dependent.

CRITICAL TASK: Criterion 1.e.1.

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

EMA will demonstrate use of equipment, maps, displays and other supplies in the EOC, scenario dependent.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: Demonstrate the capability to implement emergency worker exposure control; KI decision for institutionalized individuals and the general public; protective actions for persons with disabilities and access/functional needs; schools; traffic and access control and impediments to evacuation.

Participants: EMA Staff, EOC Support Staff, NARCOG Transportation Systems, Morgan County Health Department Staff, Decatur City Police Department, Morgan County Rescue Squad Member

CRITICAL TASK: Criterion 3.a.1.

The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record-keeping of the administration of KI to emergency workers. (NUREG-0654/FEMA-REP-1, K.3.a, b; K.4; Criterion 3.a.1). Emergency workers will discuss exposure control, out of sequence, on May 9, 2017 at the EOC. The dosimetry and TLD cards are issued from the shift supervisor.

CRITICAL TASK: Criterion 3.b.1.

KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record-keeping of the administration of KI for institutionalized individuals and the general public is maintained (NUREG-0654/FEMA REP-1, J.10.e, f; Criterion 3.b.1) This will be discussed, scenario dependent, during the exercise, up to the point of actual distribution.

CRITICAL TASK: Criterion 3.c.1

Precautionary and/or protective action decisions are implemented for persons with disabilities and access/ functional needs, other than schools, within areas subject to protective actions.

(NUREG-0654/FEMA-REP-1, J.10.c, d, e, g; Criterion 3.c.1).

This will be discussed with a representative from NARCOG during the exercise at the EOC, scenario dependent. Actual demonstration will not be performed.

CRITICAL TASK: Criterion 3.c.2.

OROs/School officials implement precautionary and/or protective actions for schools.

(NUREG-0654/FEMA-REP-1, J.10.c, d, e, g; Criterion 3.c.2).

This will be discussed by interview with a representative from Morgan County Schools, out of sequence, at the EOC on May 9, 2017.

CRITICAL TASK: Criterion 3.d.1.

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

The Decatur Police Department representative will discuss traffic and access control, out of sequence, at the Morgan County EOC, on May 9, 2017 and a Morgan County Rescue Squad representative will discuss river access control, during the exercise at the EOC, scenario dependent. Actual demonstration will not be performed of either task.

CRITICAL TASK: Criterion 3.d.2.

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

The Decatur Police Department representative will discuss impediments to evacuation, out of sequence, at the Morgan County EOC, on May 9, 2017, scenario dependent. Actual demonstration will not be performed.

CORE CAPABILITY: SITUATIONAL ASSESSMENT

Definition: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: ORO's demonstrate the capability to; assess and control the radiation exposure received by emergency workers; Radiological Assessment, Protective Action Recommendations, and Precautionary and/or Protective Action Decisions for the Plume Phase of the Emergency; and Precautionary and/or Protective Action Decision Consideration for the

Protection of Persons with Disabilities and Access/Functional Needs.

Participants: EMA Staff, NARCOG Transportation Services, Representatives from area School Systems

CRITICAL TASK: Criterion 2.a.1.

OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers, including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654/FEMA REP-1, C.6; f; K.3.a; K.4; Criterion 2.a.1.). This will be discussed during the exercise, scenario dependent.

CRITICAL TASK Criterion 2.b.1.

Appropriate PARs are based on available information on plant condition, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions (NUREG-0654/ FEMA REP-1, I. 10; Supp. 3; Criterion 2.b.1). This will be discussed during the exercise by ORO when developing the PAR for the county and state to follow from the information gathered from offsite the plant. Scenario dependent.

CRITICAL TASK: Criterion 2.b.2.

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

This will be discussed during the exercise by ORO when developing the PAR for the county and state to follow from the information gathered from offsite the plant; in order to issue KI to the general public. Scenario dependent.

CRITICAL TASK: Criterion 2.c.1.

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

This will be discussed during the exercise by ORO when developing the PAR for the county and state to follow the information on persons with disabilities and functional needs. Scenario dependent.

CORE CAPABILITY: PUBLIC INFORMATION AND WARNING

State/County EOCs, and JIC

Definition: 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.

CAPABILITY TARGET: EMERGENCY NOTIFICATION AND PUBLIC INFORMATION
Performance Measure:

Participants: EMA Staff, EOC Support Staff, Public Information Support Staff.

CRITICAL TASK: Criterion 1.a.1.

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

EMA Staff and some EOC Support Staff will be pre-positioned at 8:00 a.m. at the Morgan County EOC. The call out for additional support staff including the JIC personnel, according to the Browns Ferry Nuclear Plant notification plan. This will be discussed with no actual demonstration performed.

CRITICAL TASK: Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations.

Communications capabilities are managed in support of emergency operations (NUREG- 0654/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

Communications systems will be demonstrated, scenario dependent. The PIO phone at the JIC will be the primary means of communications with the JIC. Southern Linc, mobile phone, email and fax machine will serve as secondary communications.

CRITICAL TASK: Criterion 1.e.1.

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

Appropriate information and supplies for public information, including a Smart Book, for use by the PIO at the JIC, will be available. This will be accomplished during the exercise, scenario dependent.

CRITICAL TASK: Criterion 3.d.2.

Impediments to evacuation are identified and resolved (NUREG-0654/FEMA REP-1, J.10.k;

Criterion 3.d.2).

The PIO, located at the Morgan County EOC, will communicate to the JIC any impediments to evacuation. Should impediments to evacuation be identified, this information will be

disseminated to the public. This will be accomplished during the exercise, scenario dependent.

CRITICAL TASK: 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 (Timely: The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay) (NUREG-0654 /FEMA REP-1, E.5, 6, 7; Criterion 5.a.1).

PNS coordination will be done via the ECNS and led by Madison County EMA. The first siren activation will be demonstrated up to the point of activation, scenario dependent. Subsequent activations will be simulated, scenario dependent. The BFNPP counties have developed unified EAS and Special News Broadcast messages and distributed to the National Weather Service Office in Huntsville (NWS). Madison County EMA will coordinate the EAS/SNB messages with the BFNPP counties via the ECNS and designate to (NWS) via landline phone or Southern Linc, which message to distribute. EAS message distribution will be the responsibility of the (NWS), and simulated for this exercise.

CORE CAPABILITY: ENVIRONMENTAL RESPONSE/HEALTH AND SAFETY

Definition: Ensure the availability of guidance and resources to address all hazards including hazardous materials, acts of terrorism, and natural disasters in support of the responder operations and the affected communities.

CAPABILITY TARGET: PRECAUTIONARY AND/OR PROTECTIVE ACTION DECISION MAKING

Performance Measure: OROs authorized to send emergency workers into the plume exposure pathway EPZ must demonstrate a capability to assess and control the radiation exposure received by emergency workers and have a decision chain in place, as specified in the ORO's plans/procedures, to authorize emergency worker exposure limits to be exceeded for specific missions. As appropriate, OROs must demonstrate the capability to make decisions on the distribution and administration of KI as a protective measure for emergency workers.

Participants: EMA Staff, EOC Support Staff, Volunteers, and Morgan County & Decatur City public officials and department heads.

CRITICAL TASK: Criterion 1.a.1.

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

EMA Staff and some EOC Support Staff will be pre-positioned at 8:00 a.m. at the Morgan County EOC located at 302 Lee Street NE, Decatur, AL. The call-out for additional support personnel will be discussed with no actual demonstration performed.

CRITICAL TASK: Criterion 1.c.1.

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

Demonstration of direction and control will be performed according to plans and procedures, scenario dependent.

CRITICAL TASK: Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations.

Communications capabilities are managed in support of emergency operations (NUREG- 0654/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

Communications systems will be demonstrated, scenario dependent. The TVA ECNS is the primary means of communications with AEMA. Southern Linc, mobile phones, landline phones, two-way radio and HAM radio will serve as secondary communications with field units and other facilities.

CRITICAL TASK: Criterion 1.e.1.

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

An adequate supply of thermos-luminescent dosimeters (TLDs) and dosimetry will be available for the emergency workers. This will be discussed out of sequence at the Morgan County EOC on May 9, 2017.

The supply of KI will be viewed out of sequence, at the Morgan County Health Department, 3821 Highway 31 South, Decatur, AL, on May 9, 2017.

CRITICAL TASK: 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 EWs, including provisions to authorize radiation exposure in excess of administrative limits or PAGs (NUREG-0654/ FEMA REP-1, C.6; J.10.e, f; K.4 Criterion 2.a.1).

This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.1.

Appropriate PARs are based on available information on plant condition, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions (NUREG-0654/ FEMA REP-1, I. 10; Supp. 3; Criterion 2.b.1).

This will be discussed during the exercise, scenario dependent.

CRITICAL TASK: Criterion 2.b.2.

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

This will be discussed during the exercise, scenario dependent.

CAPABILITY TARGET: PROTECTIVE ACTION IMPLEMENTATION

Performance Measure: OROs must demonstrate the capability to provide emergency workers (including supplemental resources) with the appropriate direct-reading and permanent record dosimetry, dosimeter chargers, KI, and instructions on the use of these items.

Participants: EMA Staff, EMA Volunteers, Morgan County Department of Public Health, Morgan County Volunteer Fire Department, Morgan County Department of Human Resources.

CRITICAL TASK: Criterion 3.a.1.

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

Emergency workers will discuss exposure control, out of sequence, on May 9, 2017 at the EOC.

CRITICAL TASK: Criterion 3.b.1.

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

This will be discussed with a Health Department representative, out of sequence, at Priceville Junior High School on May 9, 2017.

CORE CAPABILITY: ON-SCENE SECURITY, PROTECTION, AND LAW ENFORCEMENT

TCPs and Waterway Warning.

Definition: 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 all traditional and atypical response personnel engaged in lifesaving and life-sustaining operations.

CAPABILITY TARGET: COMMUNICATIONS EQUIPMENT

Performance Measure: OROs must demonstrate that a primary system and at least one backup system are fully functional at all times.

Participants: Decatur Police Department.

CRITICAL TASK: Criterion 1.d.1.

At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations.

Communications capabilities are managed in support of emergency operations (NUREG- 0654/ FEMA REP-1, F.1, 2; Criterion 1.d.1).

A representative from Decatur Police Department will discuss communications, out of sequence, on May 9, 2017 at the Morgan County EOC.

CRITICAL TASK: Criterion 1.e.1.

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

Thermo-luminescent dosimeters (TLDs) and dosimetry will be distributed to available emergency workers at the Morgan County EOC, out of sequence, on May 9, 2017.

CRITICAL TASK: Criterion 3.a.1.

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

Emergency workers will discuss exposure control, out of sequence, on May 9, 2017 at the EOC.

CRITICAL TASK: Criterion 3.d.1.

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

A representative from the Decatur Police Department will discuss traffic and access control, out of sequence, on May 9, 2017 at the Morgan County EOC. Actual demonstration will not be performed on May 9th or June 28th, 2017, both will be discussed. (Scenario dependent)

CRITICAL TASK: Criterion 3.d.2.

Impediments to evacuation are identified and resolved (NUREG-0654 J.10.k; Criterion 3.d.2.).

A representative from the Decatur Police Department will discuss impediments to evacuation, out of sequence, on May 9, 2017 at the Morgan County EOC. Actual demonstrations will not be

performed. (Scenario dependent).

CORE CAPABILITY: PUBLIC HEALTH, HEALTHCARE AND EMERGENCY MEDICAL SERVICES

Medical Services Drill.

Definition: 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.

CAPABILITY TARGET: SUPPORT OPERATIONS AND FACILITIES

Performance Measure: Demonstrate the capability to transport contaminated injured individuals to medical facilities and provide medical services.

Participants: First Response Ambulance Service; Huntsville Hospital.

CRITICAL TASK: Criterion 1.e.1.

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

Thermos luminescent dosimeters (TLDS) and dosimetry will be distributed to Emergency Workers, out of sequence on October 27, 2017, at Huntsville Hospital on Governors Drive in Huntsville, AL.