



Emergency Support Function #16

Radiological/Ingestion Zone

2024

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Approval Signatures

The undersigned have hereby reviewed and approved ESF #16 of the Outagamie County Emergency Response Plan:

County Board Chairperson

Date

Emergency Management Director

Date

Emergency Support Function #16

Radiological/Ingestion Zone

Purpose

The purpose of ESF #16 is to provide specific coordination to identify resources and responsibilities for agencies who will respond to accidents involving radioactive materials within the nuclear power plants' 50-mile ingestion zone that lies in Outagamie County.

Because of the County's inclusion in the 50-mile ingestion pathway zone of the Point Beach Nuclear Power Plant and Kewaunee Nuclear Power Plant, details of the special activities required in the recovery phase are noted in the overall radiological plan for ingestions counties. This plan is located in the Emergency Management Office and this ESF is to support that plan. Presently the Kewaunee Nuclear Power Plant is shut down and is in the process of being decommissioned. Outagamie County will continue to plan for this facility until all nuclear materials have been removed.

Scope

The Federal Emergency Management Agency (FEMA) and the Nuclear Regulatory Commission (NRC) have jointly established guidelines for the protection of the population from radioactivity-contaminated food, feed, and water within a 50-mile radius of a nuclear power plant as addressed in Attachments 1 and 2. These guidelines indicate that the State of Wisconsin has the primary responsibility for ingestion emergency response. However, counties where the food supply is adversely affected by a nuclear power plant incident have the responsibility to be able to receive and disseminate information from the State in order to keep the public fully informed of the status of the emergency. The County may also be requested to provide support to the State in the implementation of emergency response actions of the following types:

- Provide transportation and communications assistance to State and Federal sampling teams if requested
- Assist with distribution of Emergency Ingestion Public Information brochures or flyers
- Provide assistance in responding to citizens' questions about the progress of the emergency response and answering local rumors

Concept of Operations

There are two main types of operations that could occur:

1. Radioactive hazardous materials are commonly used in a variety of settings (i.e. – medical facilities, construction, building inspection, and nuclear power plants). The materials needed for these applications are transported via special and common carrier via highway, air, rail, and waterway. If released into the environment, these materials require special consideration regarding their safe handling and disposal.

The on-scene Incident Commander has responsibility for coordinating this operation. The County Emergency Management Director or designee will act as the liaison between the on-scene responders and additional resources. Statutory authority for oversight regarding the remediation of radiological materials incidents rests with the State of Wisconsin.

2. In the event of a nuclear release from the power plants, the County Executive will take appropriate action to mobilize and utilize County emergency services to support the State in protecting the people in the affected areas of the County from ingestion of contaminated food, feed, and water.

Operations at the County level will be coordinated through the County EOC, which will be activated with the appropriate personnel. Operations at the State level will be coordinated through the appropriate EOC setup for that specific incident.

The level of response to a specific incident is based on numerous factors; the ability of the State, Local, and Tribal officials to respond; the type and/or amount of radiation material involved; and the extent of the impact or potential impact on the public and environment, including the size of the affected area. Consideration is given to all incidents including those of suspected sabotage or terrorist involvement.

Levels of Emergencies for Nuclear Power Plants

In the event of a nuclear power plant (NPP) incident, it will be necessary to ensure the safety of the public. Local, County, State, and Federal resources will have to be mobilized to cope with the situation. Such incidents have been classified by the U.S. Nuclear Regulatory Commission (NRC) as follows:

Level of Emergency	Definition	EOC Action
Notification of Unusual Event	<p>Lowest Emergency Classification</p> <p>Events are in process or have occurred which indicate a potential degradation of the level of safety of the plant. No release of radioactive material requiring off-site response or monitoring is expected unless further degradation of safety systems occurs.</p>	No Action
Alert	<p>Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.</p>	<ul style="list-style-type: none"> - First Responders/EM, UW-Extension, LE on standby - Possible dispatch of County Haz-Mat Team for monitoring - Notification to County departments - Possible EOC activation
Site Area Emergency	<p>Events are in process or have occurred which involve actual or like major failures of plant functions needed for protection of the public. Any releases not expected to exceed EPA's Protective Action Guideline exposure levels, except near the site boundary.</p>	<ul style="list-style-type: none"> - EOC partial activation - Possible dispatch of County HazMat Team for monitoring - Activate the PIOs - Provide resources as requested - Protective actions as directed
General Emergency	<p>Highest Emergency Classification</p> <p>Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels off-site for more than the immediate site area.</p>	<ul style="list-style-type: none"> - EOC full activation - HazMat Response - Activate the PIOs - Provide resources as requested - Protective actions as directed

Primary and Supporting Agencies

Outagamie County

Primary Agencies

County Emergency Management/Local EM

Supporting Agencies

County Executive

County Health and Human Services Department - Public Health Division

County Highway Department/Local Public Works

County Sheriff/Local Law Enforcement

County UW-Extension

Local Emergency Medical Services (EMS)

State of Wisconsin

Primary Agency

Wisconsin Department of Health Services (DHS) – Radiation Protection Section (RPS)

Wisconsin Emergency Management (WEM)

Supporting Agencies

Department of Natural Resources (DNR)

Department of Agriculture, Trade, and Consumer Protection (DATCP)

American Red Cross (ARC)

Nuclear Power Plants

Likely Support Includes

- Provide assistance from the state and nuclear plant EOCs
- Provide personnel and equipment for specific needs
- Coordinate transportation of citizens, materials, goods, and services to un-impacted areas
- Perform necessary actions to assist with response/recovery operations and quarantine of agricultural products.

Federal

Primary Agencies

DHS/FEMA
Nuclear Regulatory Commission Support
Department of Agriculture
Department of Energy
Department of EPA
Department of Health and Human Services (DHHS)
Center for Disease Control

Responsibilities and Tasks

Primary Agency: County Emergency Management/Local EM

Mitigation and Preparedness Phase

- Participate in exercises and drills as scheduled by WEM and FEMA in accordance with the four-year exercise cycle and implement any corrective actions identified in the exercise
- Maintain this ESF and the Ingestion Zone Plan

Response Phase

- Utilize the IC/UC Systems as per NIMS to organize the necessary response and to request and manage additional resources as necessary
- Document personnel who have been exposed
- Coordinate with WEM Duty Officer to have other appropriate State and Federal agencies work with first responders
- Activate the County EOC and utilize the County Emergency Response Plan
- Request Development & Land Services (DLS) to provide maps showing agricultural areas within the 50-mile ingestion zone
- Refer to ESF #11 for agricultural industries in the county
- Coordinate with UW-Extension to monitor milk, dairy, produce growers, honey, cheese, wine, and beer producers
- Coordinate with WEM to implement the recommended protective actions within the 50-mile Emergency Planning Zone
- Work with associated agencies and WEM to release accurate and timely information
- Coordinate with local law enforcement and other staff who can assist with embargo or hold of agricultural goods as designated by the State

Responsibilities and Tasks

Supporting Agency: County Executive

Mitigation and Preparedness Phase

- Participate in exercises and drills as scheduled by WEM and FEMA in accordance with the four-year exercise cycle and implement any corrective actions identified in the exercise

Response Phase

- Utilize the IC/UC Systems as per NIMS to organize the necessary response and to request and manage additional resources as necessary
- Document personnel who have been exposed
- Order protective measures within the jurisdictional boundaries
- If response activities exceed capabilities, declaration of emergency should be implemented and County Emergency Management Director should be notified so County and State aid can be requested

Responsibilities and Tasks

**Supporting Agency: County Health and Human Services Department –
Public Health Division**

Mitigation and Preparedness Phase

- Participate in exercises and drills as scheduled by WEM and FEMA in accordance with the four-year exercise cycle and implement any corrective actions identified in the exercise

Response Phase

- Utilize the IC/UC Systems as per NIMS to organize the necessary response and to request and manage additional resources as necessary
- Document personnel who have been exposed
- Coordinate with DHS and County PIO to develop messaging to inform and educate the public to assess and understand their exposure and how to access care as needed
- Assist with relocation of individuals from affected areas as appropriate

Responsibilities and Tasks

Supporting Agency: County Highway Department/Local Public Works

Mitigation and Preparedness Phase

- Participate in exercises and drills as scheduled by WEM and FEMA in accordance with the four-year exercise cycle and implement any corrective actions identified in the exercise

Response Phase

- Utilize the IC/UC Systems as per NIMS to organize the necessary response and to request and manage additional resources as necessary
- Document personnel who have been exposed
- Provide personnel and equipment to augment operations upon request
- Assist law enforcement with traffic control activities as needed

Responsibilities and Tasks

Supporting Agency: County Sheriff/Local Law Enforcement

Mitigation and Preparedness Phase

- Participate in exercises and drills as scheduled by WEM and FEMA in accordance with the four-year exercise cycle and implement any corrective actions identified in the exercise

Response Phase

- Utilize the IC/UC Systems as per NIMS to organize the necessary response and to request and manage additional resources as necessary
- Document personnel who have been exposed
- Upon request, assist with establishing a perimeter and controlling access
- Assist with notification and implementation of any protective actions that have been ordered.
- In the event of an escalating emergency outside of town, city, or village limits, the Sheriff of the County has the authority to recommend an evacuation of residents (ss.66.325) (Refer to ESF #1 for necessary evacuation routes)
- Provide escort for emergency response personnel and equipment which is dispatched to the area, when requested

Responsibilities and Tasks

Supporting Agency: County UW-Extension

Mitigation and Preparedness Phase

- Participate in exercises and drills as scheduled by WEM and FEMA in accordance with the four-year exercise cycle and implement any corrective actions identified in the exercise

Response Phase

- Utilize the IC/UC Systems as per NIMS to organize the necessary response and to request and manage additional resources as necessary
- Document personnel who have been exposed
- Coordinate with DHS-RPS in collecting agricultural samples to be monitored for contamination (The State of Wisconsin accepts primary responsibility for supplying staff, equipment, training and maintenance for State teams)
- Educate the local farms and food producers on handling possible contamination

Responsibilities and Tasks

Supporting Agency: Local Emergency Medical Services (EMS)

Mitigation and Preparedness Phase

- Participate in exercises and drills as scheduled by WEM and FEMA in accordance with the four-year exercise cycle and implement any corrective actions identified in the exercise

Response Phase

- Utilize the IC/UC Systems as per NIMS to organize the necessary response and to request and manage additional resources as necessary
- Document who have been exposed
- Provide emergency life-saving care to victims using necessary protective measures
- Notify hospitals as soon as possible of the potential exposure of patients and inform them to activate their response protocols

Attachment 1 – Point Beach Plant Ingestion Zone Map



Attachment 2 – Kewaunee Plant Ingestion Zone Map

