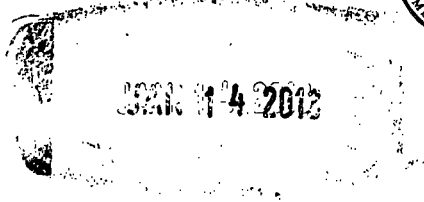




FEMA



NRC Headquarters Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

To Whom It May Concern:

Enclosed is one copy of the Final After Action Report / Improvement Plan (AAR/IP) for the August 21, 2012, Radiological Emergency Preparedness (REP) Partial Participation Plume Exposure Pathway Exercise and the September 6, 2012, Medical Services (MS-1) Drill for the Fermi 2 Nuclear Power Plant. Under separate cover, four copies of this report are being sent to the State of Michigan for distribution to the Counties of Monroe and Wayne along with an additional copy for the state. The State of Michigan, Monroe and Wayne Counties, and the utility owner/operator, Detroit Edison Company, participated in this exercise. The AAR/IP was prepared by the U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) Region V, Radiological Emergency Preparedness Program.

There were no Deficiencies identified for the State of Michigan or the Counties of Monroe and Wayne during this exercise.

There were no Areas Requiring Correction Action (ARCAs) identified for during this exercise for the State of Michigan or Wayne County.

There was one ARCA identified during this exercise for Monroe County.

The ARCA for Monroe County was identified under 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, whereby the initial instructional message to the public did not include as a minimum the elements required by current REP guidance. This ARCA remains open.

There were no new Plan Issues identified during this exercise for the State of Michigan or the Counties of Monroe and Wayne.

There was one ARCA from a previous exercise for Wayne County which was resolved.

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The ARCA for Wayne County was identified under Criterion 3.b.1 – Potassium Iodide (KI) and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained, whereby the Health Operations Officer instructed TACP personnel to “run the course” when taking KI; i.e., to take all of the 14 tablets (one per 24-hour period) contained in the KI bottle issued to them once they start taking KI. This ARCA was successfully re-demonstrated.

With the publication of the REP Program Manual in October 2011 and subsequent update in April 2012, this ARCA would now be identified under Criterion 3.a.1 – The Offsite Response Organizations (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.

There was one Plan Issue each from a previous exercise for the State of Michigan and the Counties of Monroe and Wayne which were resolved.

The Plan Issues from a previous exercise which were resolved by the State of Michigan and the Counties of Monroe and Wayne were identified under Criterion 5.a.1 - Activities associated with primary alerting and notification of the public are completed in a timely manner, whereby the process between the State and Monroe and Wayne Counties appears to be cumbersome, and as a result, the time of the Protective Action Order at 1036 hours, through the completion of the EAS broadcast at 1102 hours, was 26 minutes. The various coordination steps between the State, two Counties, the EAS development, the delivery to the radio station and siren activation was not completed in a timely manner.

A detailed discussion of these issues can be found in Part IV of the Final AAR/IP Report.

Based on the results of the August 21, 2012, exercise and the September 6, 2012, drill, the offsite radiological emergency response plans and preparedness for the State of Michigan and affected local jurisdictions, site-specific to the Fermi 2 Nuclear Power Plant, can be implemented and are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public in the event of a radiological emergency at the site.

Therefore, the Title 44 CFR, Part 350, approval of the offsite radiological emergency response plans and preparedness for the State of Michigan site-specific to the Fermi 2 Nuclear Power Plant, granted on March 9, 1987, remains in effect.

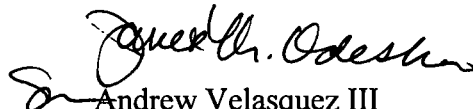
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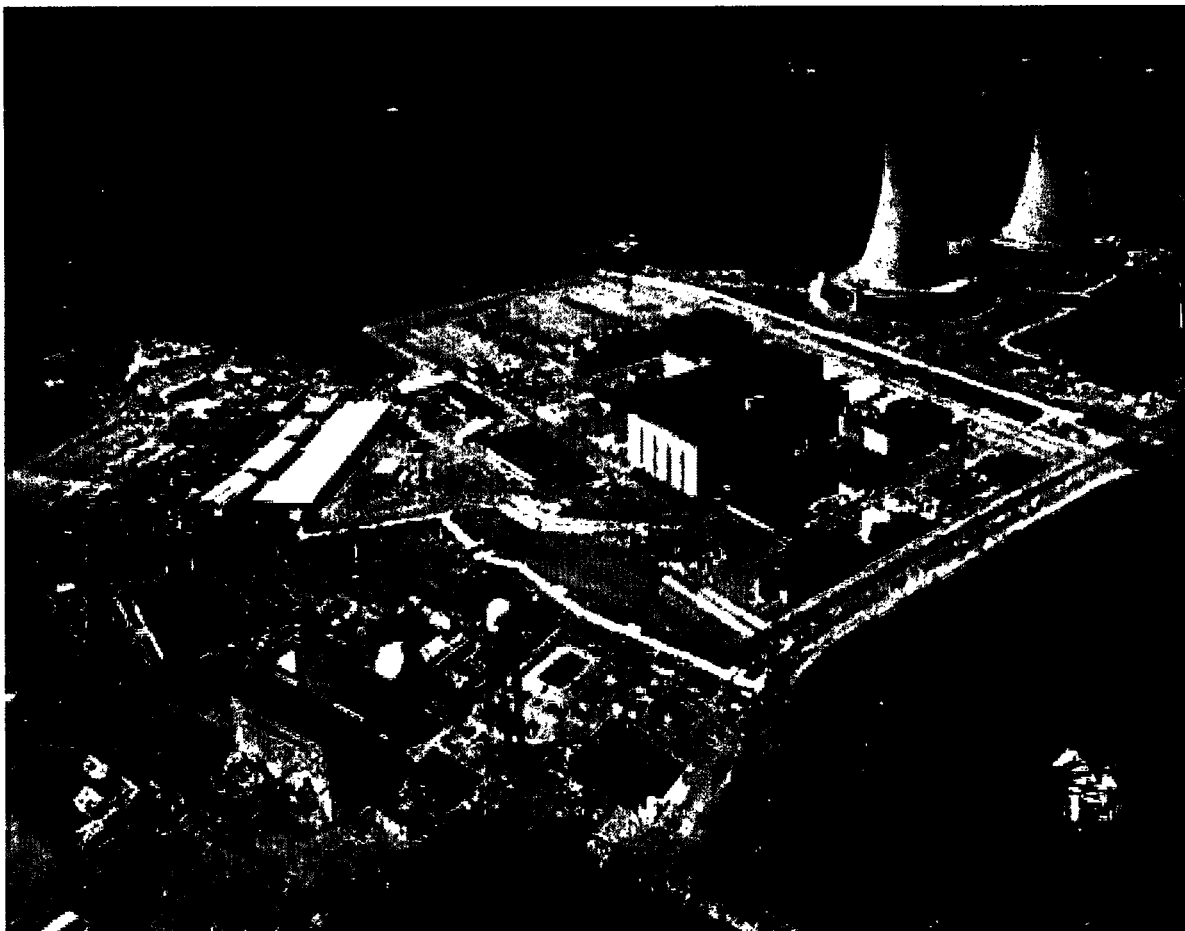
Copies of this report have been provided to the DHS/FEMA National Office, Nuclear Regulatory Commission (NRC) Region III and the State of Michigan.

If you have any questions, please contact William E. King, Chairman, Regional Assistance Committee, DHS/FEMA Region V at (312) 408-5575.

Sincerely,


Andrew Velasquez III
Regional Administrator

Enclosure (1)



Enrico Fermi 2 Nuclear Power Plant

After Action Report/ Improvement Plan

Exercise Date - August 21, 2012

Radiological Emergency Preparedness (REP) Program



FEMA

Published December 21, 2012

Unclassified
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Enrico Fermi 2 Nuclear Power Plant

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Enrico Fermi 2 Nuclear Power Plant After Action Report/Improvement Plan

Published December 21, 2012

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EXECUTIVE SUMMARY

On August 21, 2012, a Radiological Emergency Preparedness (REP) Partial Participation Plume Exposure Pathway Exercise and on September 6, 2012, a Medical Services (MS-1) Drill were conducted in the 10-mile Emergency Planning Zone (EPZ) around the Fermi 2 Nuclear Power Plant (FNPP) by the U.S. Department of Homeland Security (DHS)/Federal Emergency Management Agency (FEMA) Region V. The purpose of this exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with DHS/FEMA's policies and guidance concerning the exercise of State and local Radiological Emergency Response Plans (RERPs) and procedures.

The most recent exercise at this site was conducted on June 8, 2010. The qualifying emergency preparedness exercise was conducted on February 2, 1982.

The DHS/FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. In the State of Michigan, the risk counties of Monroe and Wayne participated along with the State government.

Protecting the public health and safety is the full-time job of some of the exercise participants and an additional assigned responsibility for others. Still others have willingly sought this responsibility by volunteering to provide vital emergency services to their communities. Cooperation and teamwork on the part of all the participants was evident during this exercise.

This Final After Action Report/Improvement Plan (AAR/IP) contains the evaluation of the biennial exercise and the evaluation of the following out-of-sequence interviews and activities:

State of Michigan

- Michigan Department of Environmental Quality (MDEQ) at the Monroe County out-of-sequence activities

Monroe County

- Emergency Worker Monitoring/Decontamination at the Ida Public School
- Emergency Worker Vehicle Monitoring/Decontamination at the Ida Public School
- Public Registration at the Ida Public School
- Congregate Care Center at the Ida Public School

-
- Emergency Worker Monitoring/Decontamination at the Dundee High School
 - Emergency Worker Vehicle Monitoring/Decontamination at the Dundee High School
 - Public Registration at the Dundee High School
 - Congregate Care Center at the Dundee High School
 - Medical Services Hospital evaluation at the Mercy Memorial Hospital
 - Medical Services Transportation evaluation for the Monroe Community Ambulance Service

Wayne County

- No out-of-sequence activities

Except where noted in this report, the State and local organizations demonstrated knowledge of and adequately implemented their emergency response plans and procedures.

There were no Deficiencies identified for the State of Michigan or the Counties of Monroe or Wayne during this exercise.

There was one Area Requiring Correction Action (ARCA) identified during this exercise for Monroe County.

Monroe County received an ARCA under Emergency Notification and Public Information Criterion 5.a.1 –Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation, whereby the initial instructional message to the public did not include as a minimum the elements required by current REP guidance. This ARCA remains open.

There was one Plan Issue from a previous exercise for the State of Michigan, 23-10-5a1-P-01, which was resolved.

CONDITION: The process between the State and Monroe and Wayne Counties appears to be cumbersome, and as a result the time of the Protective Action Order at 1036 hours, through the completion of the EAS broadcast at 1102 hours, was 26 minutes. The various coordination steps between the State, two Counties, the EAS development, the delivery to the radio station and siren activation was not completed in a timely manner:

CORRECTIVE ACTION DEMONSTRATED: The Monroe County Emergency Operations Plan, 2011 revision, identified Monroe County as primarily responsible for EAS operations and siren activation. Wayne County is capable of performing EAS operations and siren activation in the event Monroe County is not capable of doing so.

There was one Plan Issue from a previous exercise for Monroe County, 23-10-5a1-P-03, which was resolved.

CONDITION: The process between the State, Monroe and Wayne Counties appears to be cumbersome and as a result the time of the Protective Action Order at 1036 hours, through the completion of the EAS broadcast at 1102 hours, was 26 minutes. The various coordination steps between the state, two counties, the EAS development, the delivery to the radio station and siren activation was not completed in a timely manner.

CORRECTIVE ACTION DEMONSTRATED: The Monroe County Emergency Operations Plan, 2011 revision, identifies Monroe County as primarily responsible for EAS operations and siren activation. Wayne County is capable of performing EAS operations and siren activation in the event Monroe County is not capable of doing so.

There was one ARCA from a previous exercise for Wayne County, 23-10-3b1-A-05, which was resolved.

CONDITION: The Health Operations Officer instructed TACP personnel to "run the course" when taking KI; i.e., to take all of the 14 tablets (one per 24-hour period) contained in the KI bottle issued to them once they start taking KI. However, the PATIENT PACKAGE INSERT for THRO-BLOCK warns that taking more KI "will not help you because the thyroid can "hold" only limited amounts of iodine. Larger doses will increase the risk of side-effects. You will probably be told not to take the drug for more than 10 days." These instructions suggest that taking KI for a longer period than necessary may increase the risk of side effects. The KI RECORD CARD contains spaces for recording only 10 doses of KI, supporting the written instructions, and does not provide sufficient blocks for recording the taking of all 14 tablets issued.

CORRECTIVE ACTION DEMONSTRATED: The dosimetry briefing now states that the emergency worker should ingest only one tablet when ordered to do so by the Incident

Commander. Additionally, the emergency worker's KI Record Card now reflects that only 10 doses (vice 14) are issued. Instructions are for emergency workers to ingest one tablet daily until ordered to cease daily ingestion by the Incident Commander. The total dose was not to exceed 10 tablets.

There was one Plan Issue from a previous exercise for Wayne County, 23-10-5a1-P-04, which was resolved.

CONDITION: The process between the State, Monroe and Wayne Counties appears to be cumbersome and as a result the time of the Protective Action Order at 1036 hours, through the completion of the EAS broadcast at 1102 hours, was 26 minutes. The various coordination steps between the state, the two counties, the EAS development, the delivery to the radio station and siren activation was not completed in a timely manner.

CORRECTIVE ACTION DEMONSTRATED: The Wayne County Emergency Operations Plan, 2012 revision, recognizes Monroe County as primarily responsible for EAS operations and siren activation. Wayne County is capable of performing EAS operations and siren activation in the event Monroe County is not capable of doing so.

INTRODUCTION - EXERCISE BASIS

On December 7, 1979, the President directed FEMA to assume the lead responsibility for all offsite nuclear planning and response. DHS/FEMA's activities are conducted pursuant to 44 Code of Federal Regulations (CFR) Parts 350 "Review and Approval of State and Local Radiological Emergency Plans and Preparedness", 351 "Radiological Emergency Planning and Preparedness" and 352 "Commercial Nuclear Power Plants: Emergency Preparedness Planning." These regulations are a key element in the Radiological Emergency Preparedness (REP) Program that was established following the Three Mile Island Nuclear Station accident in March 1979.

The Federal Code, 44 CFR 350 establishes the policies and procedures for DHS/FEMA's initial and continued approval of State and local governments radiological emergency planning and preparedness for commercial nuclear power plants. This approval is contingent, in part, on State and local governments' participation in joint exercises with licensees.

The DHS/FEMA's responsibilities in radiological emergency planning for fixed nuclear facilities

include the following:

- Taking the lead in offsite emergency planning and in the review and evaluation of RERPs and procedures developed by State and local governments;
- Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by State and local governments;
- Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and
- Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:
 - U.S. Department of Agriculture;
 - U.S. Department of Commerce;
 - U.S. Department of Energy;
 - U.S. Department of Health and Human Services;
 - U.S. Department of the Interior;
 - U.S. Department of Transportation;
 - U.S. Environmental Protection Agency;
 - U.S. Food and Drug Administration; and
 - U.S. Nuclear Regulatory Commission.

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

Formal submission of the RERPs for the Fermi 2 Nuclear Power Plant to FEMA Region V by the State of Michigan and involved local jurisdictions occurred on November 19, 1981. Formal approval of these RERPs was granted by FEMA on March 9, 1987, under 44 CFR 350.

A REP Partial Participation Plume Exposure Pathway Exercise was conducted on August 21, 2012, and MS-1 Drill was conducted on September 6, 2012, and evaluated by DHS/FEMA to

assess the capabilities of State and local offsite emergency preparedness organizations in implementing their RERPs and procedures to protect the public health and safety during a radiological emergency involving the Fermi 2 Nuclear Power Plant.

The purpose of this exercise report is to present the exercise results and findings on the performance of the Offsite Response Organizations (ORO) during a simulated radiological emergency.

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

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

- NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980;
- FEMA "Radiological Emergency Preparedness: Exercise Evaluation Methodology" as published in the FEMA REP Program Manual, dated April 2012.

Section 1 of this report, entitled "Exercise Overview", presents information pertaining to the team that planned and coordinated the exercise. This section also provides a listing of all participating jurisdictions and functional entities that were evaluated.

Section 2 of this report, entitled "Exercise Design Summary", contains the purpose and design of the exercise, a description of the plume pathway EPZ and presents basic information and data relevant to the exercise scenario.

Section 3 of this report, entitled "Analysis of Capabilities," presents detailed information on the demonstration of applicable exercise criteria at each jurisdiction or functional entity evaluated in a jurisdiction-based, issues-only format. This section also contains: (1) descriptions of all Deficiencies, ARCAs and Plan Issues(if any) assessed during this exercise, recommended corrective actions, and the State and local governments schedule of corrective actions, if applicable, for each identified exercise issue; and (2) descriptions of unresolved ARCAs and

Planning Issues assessed during previous exercises and the status of the OROs efforts to resolve them.

Section 4 of this report, entitled "Conclusion" presents the DHS/FEMA summary of overall exercise conduct and results as evaluated against the requirements of 44 CFR 350.

EMERGENCY PLANNING ZONE (10-Mile EPZ) DESCRIPTION

The FNPP is comprised of approximately 1,120 acres of land owned by DTE Energy. The plant operator is the Detroit Edison Company. The site is bounded on the north by Swan Creek, on the east by Lake Erie, on the south by Pointe Aux Peaux Road, and on the west by Toll Road. Entrance to the site is from Enrico Fermi Drive (a private road owned by Detroit Edison) to the west and from Pointe Aux Peaux Road to another private road owned by Detroit Edison to the south.

The plant is approximately six miles northeast of Monroe, Michigan; 30 miles southwest of downtown Detroit, Michigan; and 25 miles northeast of downtown Toledo, Ohio. The latitude of the site is 41° 57' 48" north and the longitude is 83° 15' 31" west. Site elevations range from the level of Lake Erie, on the eastern edge of the site, to approximately 25 feet above the lake level on the western edge of the site.

The 10-mile EPZ includes parts of Monroe and Wayne Counties in Michigan; parts of Lake Erie; and the southern tip of Essex County, (Bay Point) Canada. Most of the 10-mile EPZ lies within Monroe County. Coordinated efforts occur between the two counties, which are divided into five Protective Action Areas. The following jurisdictions are located within the 10-mile EPZ: Ash Township, Carleton Village, Berlin Township, Estral Beach Village, Exeter Township, South Rockwood Village, Frenchtown Township, Monroe City, Monroe Township, Raisinville Township, Brownstown Township, Gibraltar City, Flat Rock City, and Rockwood City. The population in the 10-mile EPZ, based on the 2000 census is 88,897.

Land use within the EPZ is diverse. About 55 percent of the land is farmland. The majority of agricultural land is located in Monroe County. The portion of Wayne County nearest to Detroit is a growing residential suburb. Twelve state parks and recreational areas and several light industries are located within the 10-mile EPZ.

There are three major roads within 10 miles of the plant, Interstates 75 and 275 and U.S. Route 24. Their closest approach to the plant is 4.1 miles, 4.2 miles and 5.8 miles, respectively. Five railroad lines operate within 10 miles of the plant. These include the Canadian National Railroad, the Norfolk Southern Railroad, the Chesapeake and Ohio Railroad, the Detroit Toledo and Ironton Railroad and the Detroit and Toledo Shore Line Railroad. There are no major airports within 15 miles of the site.

SECTION 1: EXERCISE OVERVIEW

1.1 Exercise Details

Exercise Name

Enrico Fermi 2 Nuclear Power Plant

Type of Exercise

Plume

Exercise Date

August 21, 2012

Program

Department of Homeland Security/FEMA Radiological Emergency Preparedness
Program

Scenario Type

Radiological Emergency

1.2 Exercise Planning Team Leadership

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1.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the Enrico Fermi 2 Nuclear Power Plant exercise:

State Jurisdictions

Office of the Governor;
Michigan Department of Attorney General;
Michigan Department of State Police;
Michigan Department of Transportation;
Michigan Department of Environmental Quality;
Michigan Department of Natural Resources;
Michigan Department of Management and Budget;
Michigan Department of Agriculture;
Michigan Department of Military and Veterans Affairs;
Michigan Department of Education;

Michigan Department of Labor and Economic Growth;
Michigan Department of Community Health;
Michigan Department of Treasury;
Michigan Department of Corrections;
Michigan Department of Human Services;
Michigan Department of History, Arts and Libraries;
Michigan Judiciary and Michigan Legislature;
Michigan Department of Civil Rights;
Michigan Department of Community Health Office of Services to the Aging;
Michigan Department of State;
Michigan Department of Civil Service;
Michigan State Police Emergency Management and Homeland Security Division;
and University of Michigan Extension Service.

Risk Jurisdictions

Monroe County Board of Commissioners;
Monroe County Emergency Management Division;
Monroe County Sheriff's Department;
Monroe County Animal Control;
Monroe County Health Department;
Monroe County Road Commission;
Monroe County Human Services;
Monroe County Mental Health Department;
Monroe County Information Technology;
Monroe County Fire Services;
Monroe County Central Dispatch;
Monroe County Planning Department;
Monroe County Commission on Aging;
Monroe County Environmental Health;
Monroe County Intermediate School District;
Monroe County Drain Commission;
City of Monroe Police Department;
Ida Fire Department;
Dundee Fire/EMS;
Community Emergency Response Team;

Wayne County Homeland Security and Emergency Management;
Wayne County Sheriff's Department;
Wayne County Department of Public Services;
Wayne County Health Department;
Wayne County Regional Educational Service Agency;
Brownstown Township Police Department;
City of Gibraltar Police Department;
City of Redwood Fire Department;
Flat Rock Fire Department;
Downriver Mutual Aid Fire;
and Downriver Mutual Aid Police.

Private Organizations

American Red Cross;
Salvation Army;
Radio Amateur Civil Emergency Services/Amateur Radio Emergency Services;
Mercy Memorial Hospital;
DTE Energy;
Wayne County Amateur Radio Public Services Corporation;
and WJR Radio 760 AM - Detroit.

Federal Jurisdictions

Federal Emergency Management Agency;
and National Weather Service.

SECTION 2: EXERCISE DESIGN SUMMARY

2.1 Exercise Purpose and Design

The DHS/FEMA Region V Office evaluated the Fermi 2 Nuclear Power Plant Radiological Emergency Preparedness (REP) Partial Participation Plume Exposure Pathway Exercise conducted on August 21, 2012, and Medical Services (MS-1) Drill conducted on September 6, 2012, to assess the capabilities of local emergency preparedness organizations in implementing their Radiological Emergency Response Plans (RERP) and procedures to protect the public health and safety during a radiological emergency involving the Fermi 2 Nuclear Power Plant. The purpose of this report is to present the results and findings on the performance of the Offsite Response Organizations (OROs) during a simulated radiological emergency.

2.2 Exercise Objectives, Capabilities and Activities

Exercise objectives and identified Capabilities/REP Criteria selected to be demonstrated are discussed in Appendix E "Exercise Plan."

The Exercise Planning Team (EPT) selected objectives that focus on evaluating emergency response procedures, identifying areas for improvement and fostering collaboration between the various OROs and stakeholders. This exercise focused on the following objectives:

- ORO demonstration of effective Emergency Operations Management;
- ORO demonstration of effective Protective Action Decision Making;
- ORO demonstration of effective Protective Action Implementation;
- ORO demonstration of effective Emergency Notification and Public Information; and
- ORO demonstration of effective Support Operations and Facilities.

2.3 Scenario Summary

Appendix E also contains a summary of the Exercise Scenario, a simulated sequence of events that was used as the basis for invoking emergency response actions by Offsite Response Organizations (OROs) in the Fermi 2 Nuclear Power Plant REP Partial Participation Plume Exposure Pathway exercise on August 21, 2012, and Medical Services (MS-1) Drill on September 6, 2012.

This exercise scenario was submitted by the State of Michigan and DTE Energy and accepted by DHS/FEMA Region V on August 16, 2012.

During the exercise, in addition to information and data provided through the Fermi 2 Nuclear Power Plant onsite scenario, controllers from the State of Michigan provided "inject messages" containing scenario events and/or relevant data to those persons or locations who would normally receive notification of such events. These inject messages were the method used for invoking additional specific response actions by OROs.

SECTION 3: ANALYSIS OF CAPABILITIES

3.1 Exercise Evaluation and Results

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities that participated in the August 21, 2012, REP Partial Participation Plume Exposure Pathway Exercise and September 6, 2012, Medical Services (MS-1) Drill to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Fermi 2 Nuclear Power Plant.

Each jurisdiction and functional entity was evaluated based on its demonstration of exercise criteria delineated in the FEMA REP Program Manual, dated April 2012. Detailed information on the exercise criteria and the extent-of-play agreement used in this exercise are found in Appendix E of this report.

Presented below are definitions of the terms used in this report relative to the criteria demonstration status:

- **M – Met:** The status of a REP exercise Evaluation Area Criterion indicating that the participating ORO demonstrated all demonstration criteria for the Evaluation Area Criterion to the level required in the extent-of-play agreement with no Deficiencies, Areas Requiring Corrective Action (ARCA) or Plan Issues assessed in the current exercise and no unresolved prior ARCAs.
- **D – Deficiency:** An observed or identified inadequacy of organizational performance in an exercise that could cause a finding that offsite emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency to protect the health and safety of the public living in the vicinity of a nuclear power plant.
- **A – ARCA –** An observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety. Listing of the demonstrated exercise criteria under which one or more ARCAs was/were assessed during the current exercise or ARCAs assessed during prior exercises remain unresolved. Included is a description of any ARCAs assessed during this exercise and the recommended corrective action to be demonstrated before or during the next biennial exercise.

- **P – Plan Issue** – An observed or identified inadequacy in the ORO's emergency plan or implementing procedures, rather than in the ORO's performance.
- **N – Not Demonstrated** – Exercise criteria that were not demonstrated as scheduled during this exercise and the reason(s) they were not demonstrated.
- **Prior ARCAs - Resolved** – Descriptions of ARCAs assessed during previous exercises that were resolved and the corrective actions demonstrated, in this exercise.
- **Prior ARCAs - Unresolved** – Descriptions of ARCAs assessed during prior exercises that were not resolved in this exercise. Included is the reason the ARCA remains unresolved and recommended corrective actions to be demonstrated before or during the next exercise.

3.2 Summary Results of Exercise Evaluation

The matrix presented in Table 3.1, on the following pages, presents the status of all exercise criteria from the FEMA REP Program Manual, dated April 2012, which were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. The criterion status box is blank if it was not scheduled for demonstration.

This subsection provides information on the evaluation of each participating jurisdiction and functional entity in a jurisdiction-based, issues-only format.

The DHS/FEMA has developed a standardized system for numbering exercise issues. This system is used to achieve consistency in numbering exercise issues among DHS/FEMA Regions and site-specific exercise reports within each Region. It also is used to expedite tracking of exercise issues on a nationwide basis.

The identifying number of Deficiencies, Areas Requiring Corrective Action (ARCA), and Plan Issues includes the following elements, with each element separated by a hyphen (-):

- **Plant Site Identifier** – A two-digit number, corresponding to the Utility Billable Plant Site Code (23 for Fermi 2 Nuclear Power Plant).

-
- Exercise Year – The last two digits of the year the exercise was conducted.
 - Criterion Number – An alpha and two-digit number corresponding to the criteria numbers in the six Exercise Evaluation Areas described in the FEMA REP Program Manual, dated April 2012, which supercedes Federal Register Notice, Vol. 67, No. 80, dated April 25, 2002.
 - Issue Classification Identifier – (D = Deficiency, A = ARCA, P = Plan Issue).
 - Exercise Identification Number – A separate two or three-digit indexing number assigned to each issue identified in the exercise.

Table 3.1 - Summary of Exercise Evaluation (3 pages)

DATE: 2012-08-21 SITE: Enrico Fermi 2 Nuclear Power Plant, MI M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		MI-INP	MI-SEOC	MI-SEOC TSG	MI-FTCC	MI-FERMI 2-JIC	MI-EOC MON-SLias	MI-EOC WAY-MDEQ Rep	MI-Dundee HS-MDEQ Rep	MI-Ida PS-MDEQ Rep	MON-INP	MON-EOC
Emergency Operations Management												
Mobilization	1a1	M	M	M	M	M					M	M
Facilities	1b1											
Direction and Control	1c1		M			M						M
Communications Equipment	1d1	M	M	M	M	M			M	M	M	M
Equipment and Supplies to Support Operations	1e1		M	M	M	M			M	M		M
Protective Action Decision Making												
EW Exposure Control Decisions	2a1		M		M		M	M				
PARs	2b1			M	M		M	M				
PADs	2b2		M	M								
PADs for Disabled/Functional Needs	2c1		M									M
Ingestion PADs	2d1											
RRR Decisions	2e1											
Protective Action Implementation												
EW Exposure Control Implementation	3a1								M	M		M
KI Public/Institutionalized	3b1											M
PAD Implementation Disabled/Functional Needs	3c1											M
PAD Implementation Schools	3c2											M
TACP Establishment	3d1		M									M
Impediments	3d2											M
Implement Ingestion PADs	3e1											
Coordination of RRR Decisions	3e2											
Coordination of RRR Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2											
Field Team Operations	4a3											
Field Team Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Initial Alert & Notification	5a1		M				M	M				A
RESERVED	5a2											
Backup Alert & Notification	5a3											
Exception Area Alerting	5a4											
Subsequent Information & Instructions	5b1		M			M	M	M				M
Support Operations/Facilities												
Reception Center Operations	6a1								M	M		
EW Monitoring & Decontamination	6b1											
Congregate Care	6c1											
Contaminated Injured Transport & Care	6d1											

Table 3.1 - Summary of Exercise Evaluation (Continued, page 2/3)

DATE: 2012-08-21 SITE: Enrico Fermi 2 Nuclear Power Plant, MI M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		MON-PIO/Lias	MON-EMPH	MON-EAS-WJR-AM 760	MON-TACP/DosBrief	MON-TACP	MON-MON/HD-DCO B	MON-Dundee HS-EvMD	MON-Dundee HS-EvMDV	MON-Dundee HS-EvR	MON-Dundee HS-CCC	MON-Ida PS-EvMD
Emergency Operations Management												
Mobilization	1a1											
Facilities	1b1											
Direction and Control	1c1											
Communications Equipment	1d1				M		M	M	M	M	M	M
Equipment and Supplies to Support Operations	1e1				M	M	M	M	M	M	M	M
Protective Action Decision Making												
EW Exposure Control Decisions	2a1											
PARs	2b1											
PADs	2b2											
PADs for Disabled/Functional Needs	2c1											
Ingestion PADs	2d1											
RRR Decisions	2e1											
Protective Action Implementation												
EW Exposure Control Implementation	3a1				M	M		M	M	M		M
KI Public/Institutionalized	3b1											
PAD Implementation Disabled/Functional Needs	3c1											
PAD Implementation Schools	3c2											
TACP Establishment	3d1				M							
Impediments	3d2											
Implement Ingestion PADs	3e1											
Coordination of RRR Decisions	3e2											
Coordination of RRR Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2											
Field Team Operations	4a3											
Field Team Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Initial Alert & Notification	5a1			M								
RESERVED	5a2											
Backup Alert & Notification	5a3											
Exception Area Alerting	5a4											
Subsequent Information & Instructions	5b1	M	M									
Support Operations/Facilities												
Reception Center Operations	6a1							M	M	M		M
EW Monitoring & Decontamination	6b1											
Congregate Care	6c1										M	
Contaminated Injured Transport & Care	6d1											

Table 3.1 - Summary of Exercise Evaluation (Continued. page 3/3)

DATE: 2012-08-21 SITE: Enrico Fermi 2 Nuclear Power Plant, MI M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		MON-Ida PS-EvMDV	MON-Ida PS-EvR	MON-Ida PS-CCC	MON-Mercy Mem Hosp-MSIF	MON-MCA-MSIT	WAY-INP	WAY-EOC	WAY-TACP/DosBrief	WAY-TACP	WAY-PIO/Lias	WAY-EOC-DosiStor
Emergency Operations Management												
Mobilization	1a1						M	M				
Facilities	1b1											
Direction and Control	1c1							M				
Communications Equipment	1d1	M	M	M	M	M	M	M		M		
Equipment and Supplies to Support Operations	1e1	M	M	M	M	N		M	M	M		M
Protective Action Decision Making												
EW Exposure Control Decisions	2a1											
PARs	2b1											
PADs	2b2											
PADs for Disabled/Functional Needs	2c1							M				
Ingestion PADs	2d1											
RRR Decisions	2e1											
Protective Action Implementation												
EW Exposure Control Implementation	3a1	M	M		M	N			M	M		
KI Public/Institutionalized	3b1							M	M			
PAD Implementation Disabled/Functional Needs	3c1							M				
PAD Implementation Schools	3c2							M				
TACP Establishment	3d1							M		M		
Impediments	3d2							M				
Implement Ingestion PADs	3e1											
Coordination of RRR Decisions	3e2											
Coordination of RRR Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2											
Field Team Operations	4a3											
Field Team Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Initial Alert & Notification	5a1							M				
RESERVED	5a2											
Backup Alert & Notification	5a3											
Exception Area Alerting	5a4											
Subsequent Information & Instructions	5b1							M			M	
Support Operations/Facilities												
Reception Center Operations	6a1	M	M									
EW Monitoring & Decontamination	6b1											
Congregate Care	6c1			M								

Unclassified
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Enrico Fermi 2 Nuclear Power Plant

Contaminated Injured Transport & Care	6d1				M	M						
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Unclassified
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Enrico Fermi 2 Nuclear Power Plant

Contaminated Injured Transport & Care	6d1				M	M						
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3.3 Criteria Evaluation Summaries

3.3.1 Michigan Jurisdictions

3.3.1.1 State of Michigan - Initial Notification Point

The State of Michigan - Initial Notification Point (INP) demonstrated the Target Capability of an INP including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The INP used effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner. Dispatchers were familiar with their nuclear incident notification procedures. There were redundant communication systems available at the INP and both primary and back-up systems were used effectively during this exercise.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.2 State of Michigan - State Emergency Operations Center

The State of Michigan Emergency Operations Center (SEOC) demonstrated the Target Capability of Emergency Operations Center Management including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The State of Michigan provided sufficient multi-agency coordination for an incident at the Fermi 2 Nuclear Power Plant by promptly activating and operating for the duration of the incident. The SEOC was managed efficiently and effectively. The SEOC completed activation, notification and completed staffing to an operational level. The Governor's Authorized Representative provided solid management, direction and control using briefings. This allowed the staff of the SEOC to maintain a common operating picture and overall response to the event. The SEOC manager coordinated with other jurisdictions to make decisions and ensure that appropriate actions were taken to protect the health and safety of the public.

Prior Plan Issue 23-10-5A1-P-01 was resolved.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.d.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 5.a.1.

ISSUE NO.: 23-10-5a1-P-01

ISSUE: The process between the State and Monroe and Wayne Counties appears to be cumbersome, and as a result the time of the Protective Action Order at 1036 hours through the completion of the EAS broadcast at 1102 hours was 26 minutes. The various coordination steps between the State, two Counties, the EAS development, the delivery to the radio station and siren activation was not completed in a timely manner.

CORRECTIVE ACTION DEMONSTRATED: The Monroe County Emergency Operations Plan, 2011 revision, identifies Monroe County as primarily responsible for EAS operations and siren activation. Wayne County is capable of performing EAS operations and siren activation in the event Monroe County is not capable of doing so.

- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.3 State of Michigan - SEOC Technical Support Group

The State of Michigan Technical Support Group (TSG) demonstrated the Target Capability of TSG Management including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The TSG used a decision-making process that involved considerations of appropriate factors, including utility recommendations, plant status, release rate, dose projections, field measurements, weather conditions and knowledge of the area and provided necessary coordination to make appropriate and timely

Protective Action Recommendations to the Governors Authorized Representative and the State of Michigan Emergency Director for the protection of the general public.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 1.e.1, 2.b.1, 2.b.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.4 State of Michigan - Field Team Center Cell

The State of Michigan Field Team Center Cell (FTCC) Health Physics Support (HPS) staff demonstrated the Target Capability of FTCC Management including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The HPS staff used a decision-making process that involved considerations of appropriate factors, including utility recommendations, plant status, release rate, dose projections, field measurements, weather conditions and knowledge of the area and provided necessary coordination to make appropriate and timely Protective Action Orders (PAOs) to the State Emergency Operations Center while providing consistent PAOs for the protection of the general public.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.5 State of Michigan - Fermi 2 Nuclear Power Plant - Joint Information Center

The State of Michigan Joint Information Center demonstrated the Target Capability of a Joint Information Center including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. Key personnel with leadership roles provided appropriate direction and control. Emergency information and instructions were presented to the general public and the news media in a timely manner.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.6 State of Michigan - Monroe County Emergency Operations Center - State Liaison

The State of Michigan Liaison located at Monroe County demonstrated the Target Capability of Emergency Management including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The State Liaison assigned to the Monroe County Emergency Operations Center demonstrated the capabilities of having sufficient equipment, maps, displays and other supplies to support operations.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 2.a.1, 2.b.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.7 State of Michigan - Wayne County Emergency Operations Center - MDEQ Representative

The State of Michigan Department of Environment Quality (MDEQ) Representative located at Wayne County demonstrated the Target Capability of Emergency Management including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The MDEQ Representative assigned to the Wayne County Emergency Operations Center demonstrated the capabilities of having sufficient equipment, maps, displays and other supplies to support operations.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 2.a.1, 2.b.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.8 State of Michigan - Dundee HS - MDEQ Representative

The State of Michigan Department of Environment Quality (MDEQ) Representative demonstrated the Target Capability of Monitoring and Decontaminating Evacuees including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The MDEQ Representative was present at the demonstration and provided technical assistance to the facility administrator from the initial set-up to the closing of the facility. Simulated evacuees were effectively controlled, monitored for radiological contamination and processed in accordance with appropriate procedures. Six Evacuees were processed through the appropriate registration stations and then transitioned to the Congregate Care Center. The out-of-sequence demonstration took place at the Dundee High School Evacuee Monitoring and Decontamination Center, Dundee, Michigan.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None

- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.9 State of Michigan - Ida Public Schools - MDEQ Representative

The State of Michigan Department of Environment Quality (MDEQ) Representative demonstrated the Target Capability of Monitoring and Decontaminating Evacuees including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The MDEQ Representative was present at the demonstration and provided technical assistance to the facility administrator from the initial set-up to the closing of the facility. Simulated evacuees were effectively controlled, monitored for radiological contamination and processed in accordance with appropriate procedures. Six Evacuees were processed through the appropriate registration stations and then transitioned to the Congregate Care Center. The out-of-sequence demonstration took place at the Ida Public Schools Evacuee Monitoring and Decontamination Center, Ida, Michigan.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2 Risk Jurisdictions

3.3.2.1 Monroe County - Initial Notification Point

Monroe County demonstrated the Target Capability of Emergency Operations Center Management at the Initial Warning Point located in the Monroe County Central Dispatch (MCCD). The dispatchers demonstrated the ability to alert, notify and mobilize emergency personnel in a timely manner. The dispatchers were familiar with the nuclear incident

notification procedures, demonstrated the redundant communication systems available at the MCCD and used both primary and backup systems effectively during the demonstration.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.2 Monroe County - Emergency Operations Center

Monroe County demonstrated the Target Capability of Emergency Operations Center Management including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The EOC was managed efficiently and effectively while completing a full notification and activation resulting in staffing to an operational level. The Monroe County Emergency Management Agency Director and the Chairman of the Monroe County Board of Commissioners provided effective management, direction and control throughout the demonstration.

Prior Plan Issue 23-10-5A1-P-03 was resolved.

ARCA 23-12-5A1-A-01 remains unresolved.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 5.a.1.

ISSUE NO.: 23-12-5a1-A-01

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

by current REP guidance.

CONDITION: The facsimile sent to Radio Station WJR did not include text of an EAS message or any instructions to broadcast an EAS message. Monroe County did not instruct WJR to simulate broadcast of the EAS message during a telephone call to verify that the station received the EAS information.

The content of the initial EAS instructions to the public did not contain all required elements from the Radiological Emergency Preparedness (REP) Program Manual, dated April 2012 and contained inaccurate instructions. The initial EAS did not identify the off-site response organization (ORO) responsible or the official with authority for providing the EAS. It did not reference public information materials for the general public or instruct the public to stay tuned for additional information. It did not clearly state that an emergency existed at Fermi 2 Nuclear Power Plant (FNPP), but did include FNPP on the PAA description with the evacuation box checked. The initial EAS message incorrectly indicated that the marine evacuation area was to two miles, instead of five miles as in the PAO, and incorrectly listed six Reception/Congregate Care Centers as being open when there were only two open.

The second EAS message did not include the name of the official responsible for the EAS message nor did it include the organization he was affiliated with. It also included information that the Dundee and IDA Reception Centers should be evacuated instead of reiterating that the residents should be evacuated from PAAs #1 and #3 as previously stated in this EAS message.

POSSIBLE CAUSE: The failure to simulate broadcast of the initial EAS message appears to be due to inadequate pre-exercise coordination with the radio station and the lack of instructions in the messages to the radio station during the exercise. Radio station personnel were not fully aware of the exercise or what to do with the information they received. The station personnel were under the impression that Monroe County would be activating the EAS and that the information sent to the station was for information. The Monroe County EOC did not request EAS activation in the facsimile transmission to the station nor did they verbally request activation during a telephone call to verify that the station received the facsimile. The errors in the EAS content may be due to not properly checking the pre-scripted text in the

EAS message and background materials to ensure that the materials accurately reflected the PAO. In addition, pre-scripted EAS message forms do not include all elements as described in the REP Program Manual, dated April 2012.

REFERENCE: 10 CFR Part 50, Appendix E and NUREG-0654 E.1, 4., 5., 6., and 7.

EFFECT: Not broadcasting the initial EAS message could lead to confusion following siren activation. It could also delay evacuation of residents in PAA #1 or on Lake Erie within five miles of FNPP. The errors in describing the PAO could result in residents within the evacuation area believing they were not in the area to evacuate. Not including the individual responsible for dissemination of the EAS message to the public and who this individual represents, could mislead the public and delay the evacuation.

RECOMMENDATION: Monroe County should review procedures for EAS message transmission to the radio station to insure that proper coordination is completed with the radio station. Pre-scripted EAS messages need to be reviewed prior to dissemination to insure all elements required are included.

- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 5.a.1.

ISSUE NO.: 23-10-5a1-P-03

ISSUE: The process between the State, Monroe and Wayne Counties appears to be cumbersome and as a result the time of the Protective Action Order, at 1036 hours through the completion of the EAS broadcast at 1102 hours was 26 minutes. The various coordination steps between the state, two counties, the EAS development, the delivery to the radio station and siren activation was not completed in a timely manner.

CORRECTIVE ACTION DEMONSTRATED: The Monroe County Emergency Operations Plan, 2011 revision, identifies Monroe County as primarily responsible for

EAS operations and siren activation. Wayne County is capable of performing EAS operations and siren activation in the event Monroe County is not capable of doing so.

- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.3 Monroe County - Personnel in Joint Information Center

The Monroe County personnel in the State Joint Information Center (JIC) demonstrated the Target Capability of a JIC including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. Key personnel with leadership roles provided appropriate direction and control. Emergency information and instructions were presented to the general public and the news media in a timely manner.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.4 Monroe County - Emergency Management Public Inquiry Hotline

The Monroe County Public Inquiry Hotline was efficiently managed and coordinated with other public information organizations within the Emergency Operations Center. The two Public Inquiry Assistants utilized the Fermi 2 Nuclear Power Plant Public Information Brochure as the principal reference for providing assistance to callers. They also utilized current new releases. Rumors were also identified and resolved. If the rumor could not be answered by Public Inquiry Assistants the inquiry was delegated to the proper area to be answered or was up channeled to the Joint Information Center and handled through the Joint Information Center via media briefings.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.5 Monroe County - Emergency Alerting System - Radio Station WJR AM - 760

Monroe County successfully demonstrated the Target Capability of Emergency Public Information and Warning associated with primary alerting and notification of the public was completed in a timely manner. Following the decision by State of Michigan to notify the public of an emergency situation at the Fermi 2 Nuclear Power Plant, Radio Station WJR AM-760 personnel demonstrated a thorough understanding of their equipment, the EAS process and executed their duties in a timely and professional manner.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 5.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.6 Monroe County - Traffic and Access Control Point Dosimetry Briefing

Monroe County demonstrated the Target Capability of Critical Resource Logistics and Distribution through the establishment of a Dosimetry Distribution Point at Monroe County Emergency Management Division offices. The Michigan State Police Shift Supervisor and County Radiological Defense Officer demonstrated the proper use of direct-reading and thermoluminescent dosimeters, calibration equipment and communications systems. Thorough briefings regarding the use of and record keeping requirements for personal dosimetry kits including the proper procedures and documentation of the use of potassium iodide were demonstrated.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.7 Monroe County - Traffic and Access Control Post

Monroe County demonstrated the Target Capability of Emergency Public Safety and Security Response through interview which included the distribution of dosimetry, emergency worker radiological exposure management and the capability to implement Traffic and Access Control Points (TACPs) within the 10-mile Emergency Planning Zone. During the interview, the Michigan State Police Trooper demonstrated thorough knowledge of the provisions of the Emergency Operations Plan related to the establishment of TACPs in addition to the use of appropriate dosimetry procedures, documentation and communications equipment including portable radios, cell phones and mobile data terminals.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.8 Monroe County - Monroe County Health Department - Dosimetry Control Officer Briefing

Monroe County demonstrated the Target Capability of Critical Resource Logistics and Distribution through the establishment of a Dosimetry Distribution Point at Monroe County Health Department. The Monroe County Radiological Defense Officer demonstrated the proper

use of direct-reading and thermoluminescent dosimeters, calibration equipment and communications systems. Thorough briefings regarding the use of and record keeping requirements for personal dosimetry kits including the proper procedures and documentation of the use of potassium iodide were demonstrated.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.e.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.9 Monroe County - Dundee HS - Evacuee Monitoring & Decontamination

The Monroe County Health Department staff, working in conjunction with the Community Emergency Response Team successfully demonstrated the Target Capability of Monitoring and Decontamination of Evacuees including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. Simulated Evacuees were effectively controlled, monitored for radiological contamination and processed in accordance with appropriate procedures. The out-of-sequence demonstration took place at the Dundee High School Evacuee Monitoring and Decontamination Center, Dundee, Michigan.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.10 Monroe County - Dundee HS - Evacuee Vehicle Monitoring & Decontamination

The Monroe County Health Department staff, working in conjunction with the Community Emergency Response Team successfully demonstrated the Target Capability of Monitoring and Decontamination of Evacuee vehicles including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. Simulated evacuee vehicles were effectively controlled, monitored for radiological contamination and processed in accordance with appropriate procedures. The out-of-sequence demonstration took place at the Dundee High School Evacuee Monitoring and Decontamination Center, Dundee, Michigan.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.11 Monroe County - Dundee HS - Evacuee Registration

The Monroe County Health Department staff, working in conjunction with the American Red Cross successfully demonstrated the Target Capability of Monitoring and Decontamination of Evacuees including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. Simulated evacuees were effectively controlled, monitored for radiological contamination and processed in accordance with appropriate procedures. Six evacuees were processed through the appropriate registration stations and then transitioned to the Congregate Care Center. The out-of-sequence demonstration took place at the Dundee High School Evacuee Monitoring and Decontamination Center, Dundee, Michigan.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None

- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.12 Monroe County - Dundee HS - Congregate Care Center

The Monroe County Chapter of the American Red Cross successfully demonstrated the Target Capability of Mass Care (sheltering, feeding and related services) to support emergency operations. The Monroe County Chapter of the American Red Cross successfully demonstrated that they had the resources to provide services and accommodations consistent with American Red Cross planning guidelines, and had procedures to assure that evacuees had been monitored for contamination and had been decontaminated as appropriate prior to entering the congregate care facility.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 6.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.13 Monroe County - Ida Public Schools - Evacuee Monitoring & Decontamination

The Monroe County Health Department staff successfully demonstrated the Target Capability of Monitoring and Decontamination of Evacuees including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. Simulated evacuees were effectively controlled, monitored for radiological contamination and processed in accordance with appropriate procedures. The out-of-sequence demonstration took place at the Ida Public Schools Evacuee Monitoring and Decontamination Center, Ida, Michigan.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.

- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.14 Monroe County - Ida Public Schools - Evacuee Vehicle Monitoring & Decontamination

The Monroe County Health Department staff successfully demonstrated the Target Capability of Monitoring and Decontamination of Evacuee vehicles including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. Simulated evacuee vehicles were effectively controlled, monitored for radiological contamination and processed in accordance with appropriate procedures. The out-of-sequence demonstration took place at the Ida Public Schools Evacuee Monitoring and Decontamination Center, Ida, Michigan.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.15 Monroe County - Ida Public Schools - Evacuee Registration

The Monroe County Health Department staff, working in conjunction with the American Red Cross demonstrated the Target Capability of Monitoring and Decontamination of Evacuees including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. Simulated evacuees were effectively controlled, monitored for radiological contamination and processed in accordance with appropriate procedures. Six evacuees were processed through the appropriate registration stations and then transitioned to the Congregate Care Center. The out-of-sequence demonstration took place at the Ida Public Schools

Evacuee Monitoring and Decontamination Center, Ida, Michigan.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.16 Monroe County - Ida Public Schools - Congregate Care Center

The American Red Cross successfully demonstrated the Target Capability of Mass Care (sheltering, feeding and related services) to support emergency operations during an out-of-sequence demonstration. The demonstration was conducted at the Ida Public Schools Congregate Care Center in Ida, Michigan. The American Red Cross successfully demonstrated that they had the resources to provide services and accommodations consistent with American Red Cross planning guidelines, and had procedures to assure that evacuees had been monitored for contamination and had been decontaminated as appropriate prior to entering the congregate care facility.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 6.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.17 Mercy Memorial Hospital

The Mercy Memorial Hospital demonstrated the Target Capability of Triage and Treatment of Contaminated Patients including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. Mercy Memorial Hospital had proper space; resources and trained personnel to monitor decontaminate and provide medical services to contaminated injured individuals. This included the provision of emergency worker radiological exposure. There were redundant communication systems available and both primary and back-up systems were used effectively during this exercise.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.18 Monroe Community Ambulance

The Monroe County Ambulance Crew demonstrated the Target Capability of Triage and Pre-Hospital Treatment of Contaminated Patients including the use of effective procedures to alert, notify and mobilize emergency personnel and activate in a timely manner. The Monroe County Ambulance Crew had adequate resources and trained personnel to provide pre-hospital medical services to contaminated injured individuals. This included the provision of emergency worker radiological exposure. There were redundant communication systems available and both primary and back-up systems were used effectively during this demonstration.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: 1.e.1, 3.a.1.

- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.19 Wayne County - Initial Notification Point

Wayne County demonstrated the Target Capability of Emergency Operations Center Management at the Initial Warning Point located in the Wayne County Airport Authority Central Communications Center (AACCC) and the Emergency Operations Center's Control Desk. The AACCC personnel demonstrated the ability to alert, notify and mobilize emergency personnel in a timely manner. The AACCC personnel were familiar with the nuclear incident notification procedures, demonstrated the redundant communication systems available at the AACCC and used both primary and backup systems effectively during the demonstration.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.20 Wayne County - Emergency Operations Center

Wayne County demonstrated the Target Capability of Emergency Operations Center Management including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The EOC was managed efficiently and effectively while completing a full notification and activation resulting in staffing to an operational level. The Wayne County Department of Homeland Security and Emergency Management Director provided effective management, direction and control throughout the demonstration.

Prior Plan Issue 23-10-5A1-P-04 was resolved.

In summary, the status of DHS/FEMA criteria for this location is as follows:

-
- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.c.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 5.a.1, 5.b.1.
 - b. AREAS REQUIRING CORRECTIVE ACTION: None
 - c. DEFICIENCY: None
 - d. PLAN ISSUES: None
 - e. NOT DEMONSTRATED: None
 - f. PRIOR ISSUES - RESOLVED: 5.a.1.

ISSUE NO.: 23-10-5a1-P-04

ISSUE: The process between the State, Monroe and Wayne Counties appears to be cumbersome and as a result the time of the Protective Action Order at 1036 hours through the completion of the EAS broadcast at 1102 hours was 26 minutes. The various coordination steps between the state, the two counties, the EAS development, the delivery to the radio station and siren activation was not completed in a timely manner.

CORRECTIVE ACTION DEMONSTRATED: The Wayne County Emergency Operations Plan, 2012 revision, recognizes Monroe County as primarily responsible for EAS operations and siren activation. Wayne County is capable of performing EAS operations and siren activation in the event Monroe County is not capable of doing so.

- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.21 Wayne County - Traffic and Access Control Point Dosimetry Briefing

Wayne County demonstrated the Target Capability of Critical Resource Logistics and Distribution through the establishment of a Dosimetry Distribution Point at the Wayne County Emergency Operations Center. The Wayne County Radiological Protection Officer demonstrated the proper use of direct-reading and thermoluminescent dosimeters, calibration equipment and communications systems. Thorough briefings regarding the use of and record keeping requirements for personal dosimetry kits including the proper procedures and documentation of the use of potassium iodide were demonstrated.

Prior ARCA 23-10-3b1-A-05 was resolved.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.e.1, 3.a.1, 3.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 3.b.1.

ISSUE NO.: 23-10-3b1-A-05

ISSUE: The Health Operations Officer instructed TACP personnel to "run the course" when taking KI – i.e., to take all of the 14 tablets (one per 24-hour period) contained in the KI bottle issued to them once they start taking KI. However, the PATIENT PACKAGE INSERT for THRO-BLOCK warns that taking more KI "... will not help you because the thyroid can "hold" only limited amounts of iodine. Larger doses will increase the risk of side-effects. You will probably be told not to take the drug for more than 10 days." These instructions suggest that taking KI for a longer period than necessary may increase the risk of side effects. The KI RECORD CARD contains spaces for recording only 10 doses of KI, supporting the written instructions, and does not provide sufficient blocks for recording the taking of all 14 tablets issued.

CORRECTIVE ACTION DEMONSTRATED: The dosimetry briefing now states that the emergency worker should ingest only one tablet when ordered to do so by the Incident Commander. Additionally, the emergency worker's KI Record Card now reflects that only 10 doses (vice 14) are issued. Instructions state that emergency workers should ingest one tablet daily until ordered to cease daily ingestion by the Incident Commander. The total dose was not to exceed 10 tablets.

- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.22 Wayne County - Traffic and Access Control Point

Wayne County demonstrated the Target Capability of Emergency Public Safety and Security Response through interview which included the distribution of dosimetry, emergency worker radiological exposure management and the capability to implement Traffic and Access Control Points (TACPs) within the 10-mile Emergency Planning Zone. During the interview, the two Traffic and Access Control Point Officers demonstrated thorough knowledge of the provisions of the Emergency Operations Plan related to the establishment of TACPs in addition to the use of appropriate dosimetry procedures, documentation and communications equipment including portable radios, cell phones and mobile data terminals.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.23 Wayne County - Personnel in Joint Information Center

The Wayne County personnel in the State Joint Information Center (JIC) demonstrated the Target Capability of a JIC including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. Key personnel with leadership roles provided appropriate direction and control. Emergency information and instructions were presented to the general public and the news media in a timely manner.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None

-
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.24 Wayne County - Emergency Operations Center - Dosimetry Storage

Wayne County demonstrated the Target Capability of Critical Resource Logistics and Distribution through the establishment of a Dosimetry Distribution Point at the Wayne County Emergency Operations Center. Wayne County demonstrated sufficient supplies of dosimetry and potassium iodide to support the emergency conditions.

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.e.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

SECTION 4: CONCLUSION

There were no Deficiencies identified for the State of Michigan or the Counties of Monroe or Wayne during this exercise.

There was one Area Requiring Correction Action (ARCA) identified during this exercise for Monroe County.

Monroe County received an ARCA under Emergency Notification and Public Information Criterion 5.a.1 –Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation, whereby the initial instructional message to the public did not include as a minimum the elements required by current REP guidance. This ARCA remains open.

There was one Plan Issue from a previous exercise for the State of Michigan, 23-10-5a1-P-01, which was resolved.

CONDITION: The process between the State and Monroe and Wayne Counties appears to be cumbersome, and as a result the time of the Protective Action Order at 1036 hours, through the completion of the EAS broadcast at 1102 hours, was 26 minutes. The various coordination steps between the State, two Counties, the EAS development, the delivery to the radio station and siren activation was not completed in a timely manner.

CORRECTIVE ACTION DEMONSTRATED: The Monroe County Emergency Operations Plan, 2011 revision, identified Monroe County as primarily responsible for EAS operations and siren activation. Wayne County is capable of performing EAS operations and siren activation in the event Monroe County is not capable of doing so.

There was one Plan Issue from a previous exercise for Monroe County, 23-10-5a1-P-03, which was resolved.

CONDITION: The process between the State, Monroe and Wayne Counties appears to be cumbersome and as a result the time of the Protective Action Order at 1036 hours, through the completion of the EAS broadcast at 1102 hours, was 26 minutes. The various coordination steps

between the state, two counties, the EAS development, the delivery to the radio station and siren activation was not completed in a timely manner.

CORRECTIVE ACTION DEMONSTRATED: The Monroe County Emergency Operations Plan, 2011 revision, identifies Monroe County as primarily responsible for EAS operations and siren activation. Wayne County is capable of performing EAS operations and siren activation in the event Monroe County is not capable of doing so.

There was one ARCA from a previous exercise for Wayne County, 23-10-3b1-A-05, which was resolved.

CONDITION: The Health Operations Officer instructed TACP personnel to "run the course" when taking KI; i.e., to take all of the 14 tablets (one per 24-hour period) contained in the KI bottle issued to them once they start taking KI. However, the PATIENT PACKAGE INSERT for THRO-BLOCK warns that taking more KI "will not help you because the thyroid can "hold" only limited amounts of iodine. Larger doses will increase the risk of side-effects. You will probably be told not to take the drug for more than 10 days." These instructions suggest that taking KI for a longer period than necessary may increase the risk of side effects. The KI RECORD CARD contains spaces for recording only 10 doses of KI, supporting the written instructions, and does not provide sufficient blocks for recording the taking of all 14 tablets issued.

CORRECTIVE ACTION DEMONSTRATED: The dosimetry briefing now states that the emergency worker should ingest only one tablet when ordered to do so by the Incident Commander. Additionally, the emergency worker's KI Record Card now reflects that only 10 doses (vice 14) are issued. Instructions are for emergency workers to ingest one tablet daily until ordered to cease daily ingestion by the Incident Commander. The total dose was not to exceed 10 tablets.

There was one Plan Issue from a previous exercise for Wayne County, 23-10-5a1-P-04, which was resolved.

CONDITION: The process between the State, Monroe and Wayne Counties appears to be cumbersome and as a result the time of the Protective Action Order at 1036 hours, through the completion of the EAS broadcast at 1102 hours, was 26 minutes. The various coordination steps

between the state, the two counties, the EAS development, the delivery to the radio station and siren activation was not completed in a timely manner.

CORRECTIVE ACTION DEMONSTRATED: The Wayne County Emergency Operations Plan, 2012 revision, recognizes Monroe County as primarily responsible for EAS operations and siren activation. Wayne County is capable of performing EAS operations and siren activation in the event Monroe County is not capable of doing so.

APPENDIX A: IMPROVEMENT PLAN

Issue Number: 23-12-5a1-A-01		Criterion: 5a1	
<p>ISSUE: The facsimile sent to Radio Station WJR did not include text of an EAS message or any instructions to broadcast an EAS message. Monroe County did not instruct WJR to simulate broadcast of the EAS message during a telephone call to verify that the station received the EAS information.</p> <p>The content of the initial EAS instructions to the public did not contain all required elements from the Radiological Emergency Preparedness (REP) Program Manual, dated April 2012 and contained inaccurate instructions. The initial EAS did not identify the off-site response organization (ORO) responsible or the official with authority for providing the EAS. It did not reference public information materials for the general public or instruct the public to stay tuned for additional information. It did not clearly state that an emergency existed at Fermi 2 Nuclear Power Plant (FNPP), but did include FNPP on the PAA description with the evacuation box checked. The initial EAS message incorrectly indicated that the marine evacuation area was to two miles, instead of five miles as in the PAO, and incorrectly listed six Reception/Congregate Care Centers as being open when there were only two open.</p> <p>The second EAS message did not include the name of the official responsible for the EAS message nor did it include the organization he was affiliated with. It also included information that the Dundee and IDA Reception Centers should be evacuated instead of reiterating that the residents should be evacuated from PAAs #1 and #3 as previously stated in this EAS message.</p>			
<p>RECOMMENDATION: Monroe County should review procedures for EAS message transmission to the radio station to insure that proper coordination is completed with the radio station. Pre-scripted EAS messages need to be reviewed prior to dissemination to insure all elements required are included.</p>			
<p>CORRECTIVE ACTION DESCRIPTION: Clarify the responsibilities and procedures between Monroe County and the Radio Station WJR for EAS activation. Pre-scripted EAS messages should be re-evaluated to insure they contain the required elements as described in the REP Program Manual. In addition, review assigning someone to review the entire EAS message to insure that the information identified in the EAS message is correct at the time it is being given to the radio station for dissemination to the public.</p>			
CAPABILITY: Emergency Public Information and Warning		PRIMARY RESPONSIBLE AGENCY: Monroe County	
CAPABILITY ELEMENT: Organization and Leadership		START DATE: 2012-12-19	
AGENCY POC:		ESTIMATED COMPLETION DATE: 2014-04-29	

APPENDIX B: EXERCISE TIMELINE

Table 1, on the following pages, presents the times at which key events and activities occurred during the Enrico Fermi 2 Nuclear Power Plant Partial Participation Plume Exposure Pathway Radiological Emergency Preparedness (REP) Exercise on August 21, 2012. Also included are times that notifications were made to the participating jurisdictions/functional entities.

Table 1 - Exercise Timeline
DATE: 2012-08-21, SITE: Enrico Fermi 2 Nuclear Power Plant, MI

Emergency Classification Level or Event	Time Utility Declared	MI-SEOC	MI-FERC	MI-FERMI 2 JIC	WAY-FOC
Unusual Event	0827	0833	N/A	N/A	0830
Alert	0853	0857	0944	0854	0901
Site Area Emergency	0949	1006	0956	0951	1009
General Emergency	1113	1119	1120	1122	1119
Simulated Rad. Release Started	1105	1112	1219	1122	1126
Simulated Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		0944	1100	1015	0927
Declaration of State of Emergency		1006	0956	1023	0954
Early Precautionary Actions:		1015	N/A	1034	N/A
1st Protective Action Order:		1118	1126	1129	1126
KI Administration Decision:		1120	1120	1129	1125
1st Siren Activation		N/A	N/A	N/A	1130
2nd Protective Action Order:		1316	1322	1320	1318
2nd Siren Activation		N/A	N/A	N/A	1329
2nd EAS or EBS Message		N/A	N/A	N/A	1338
Exercise Terminated		1405	1400	1415	1353

APPENDIX C: EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel that evaluated the Enrico Fermi 2 Nuclear Power Plant REP Full Participation Plume Exposure Pathway Exercise on August 21, 2012 and the Medical Services (MS-1) Drill on September 6, 2012. The list includes the evaluation team leadership and all evaluators. The organization each evaluator represents is indicated by the following abbreviations:

DHS/FEMA Department of Homeland Security/Federal Emergency Management Agency

ICF International

Chair, Regional Assistance Committee	William E. King	DHS/FEMA
Exercise Director	Gary Naskrent	DHS/FEMA
Senior Specialist	Dwaine Warren	DHS/FEMA
Regional Site Specialist	Clinton E. Crackel	DHS/FEMA
Team Leader – Michigan	Delwyn Kinsley	DHS/FEMA
Team Leader - Monroe County	Carolyn Sturghill	DHS/FEMA
Team Leader - Wayne County	Karl Rabenhorst	DHS/FEMA

Unclassified
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Enrico Fermi 2 Nuclear Power Plant

DATE: 2012-08-21, SITE: Enrico Fermi 2 Nuclear Power Plant, MI

LOCATION	EVALUATOR	AGENCY
State of Michigan - Initial Notification Point	Edward Diaz	FEMA RV
State of Michigan - State Emergency Operations Center	Edward Diaz Edward Golinski	FEMA RV FEMA RV
State of Michigan - SEOC Technical Support Group	Paul Ward	FEMA HQ
State of Michigan - Field Team Center Cell	Jill Leatherman	ICFI
State of Michigan - Fermi 2 Nuclear Power Plant - Joint Information Center	John D. Simpson	FEMA RV
State of Michigan - Monroe County Emergency Operations Center - State Liaison	William Vocke	ICFI
State of Michigan - Wayne County Emergency Operations Center - MDEQ Representative	Bruce Swiren	ICFI
State of Michigan - Dundee HS - MDEQ Representative	Edward Golinski	FEMA RV
State of Michigan - Ida Public Schools - MDEQ Representative	Carl Wentzell	ICFI
Monroe County - Initial Notification Point	Carl Bebrich	FEMA RV
Monroe County - Emergency Operations Center	James King William Vocke	FEMA RV ICFI
Monroe County - Personnel in Joint Information Center	John D. Simpson	FEMA RV
Monroe County - Emergency Management Public Inquiry Hotline	James King	FEMA RV
Monroe County - Emergency Alerting System - Radio Station WJR AM - 760	Debra Schneck	ICFI
Monroe County - Traffic and Access Control Point Dosimetry Briefing	Carl Bebrich	FEMA RV
Monroe County - Traffic and Access Control Post	Thomas Reynolds	ICFI
Monroe County - Monroe County Health Department - Dosimetry Control Officer Briefing	Carl Bebrich	FEMA RV
Monroe County - Dundee HS - Evacuee Monitoring & Decontamination	Jill Leatherman Thomas Reynolds	ICFI ICFI
Monroe County - Dundee HS - Evacuee Vehicle Monitoring & Decontamination	Henry Christiansen	ICFI
Monroe County - Dundee HS - Evacuee Registration	Debra Schneck	ICFI
Monroe County - Dundee HS - Congregate Care Center	Jill Leatherman John Wills	ICFI ICFI
Monroe County - Ida Public Schools - Evacuee Monitoring & Decontamination	Henry Christiansen	ICFI
Monroe County - Ida Public Schools - Evacuee Vehicle Monitoring & Decontamination	Carl Bebrich	FEMA RV
Monroe County - Ida Public Schools - Evacuee Registration	Thomas Reynolds	ICFI
Monroe County - Ida Public Schools - Congregate Care Center	Debra Schneck	ICFI
Mercy Memorial Hospital	James King	FEMA RV
Monroe Community Ambulance	Clinton Crackel	FEMA RV
Wayne County - Initial Notification Point	Michael Burriss	ICFI
Wayne County - Emergency Operations Center	Bruce Swiren Carl Wentzell	ICFI ICFI
Wayne County - Traffic and Access Control Point Dosimetry Briefing	Michael Burriss Bruce Swiren	ICFI ICFI
Wayne County - Traffic and Access Control Point	Michael Burriss	ICFI
Wayne County - Personnel in Joint Information Center	John D. Simpson	FEMA RV
Wayne County - Emergency Operations Center - Dosimetry Storage	Michael Burriss	ICFI

Unclassified
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Enrico Fermi 2 Nuclear Power Plant

* Team Leader

APPENDIX D: ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
AACCC	Airport Authority Central Communications Center
ARC	American Red Cross
ARCA	Area Requiring Correction Action
ARES	Amateur Radios Emergency Services
BPS	Baud Per Second
CAD	Computer Aided Dispatch
CCC	Congregate Care Center
CEDE	Committed Effective Dose Equivalent
DAT	Disaster Assistance Team
DHS	Department of Homeland Security
DRD	Direct-Reading Dosimeter
EAS	Emergency Alert System
ECL	Emergency Classification Level
ED	Emergency Department
EMA	Emergency Management Agency
EMC	Emergency Management Coordinator
EMD	Emergency Management Division
EMPIH	Emergency Management Public Inquiry Hotline
EMS	Emergency Management Services
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPA	Environmental Protection Agency
EPZ	Emergency Planning Zone
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FMT	Field Monitoring Team
FNPP	Fermi 2 Nuclear Power Plant
FRA	Federal Railroad Administration
GAR	Governors Authorized Representative
GE	General Emergency
GIS	Geographic Information System
HEMS	Health Emergency Medical Services
HF	High Frequency
HP	Hewlett Packard

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Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Enrico Fermi 2 Nuclear Power Plant

HPS	Health Physics Support
HVA	Huron Valley Ambulance
INP	Initial Notification Point
JIC	Joint Information Center
JIT	Joint Information Team
LEIN	Law Enforcement Information Network
LEOO	Law Enforcement Operations Officer
MCA	Monroe Community Ambulance
MCCD	Monroe County Central Dispatch
MCEMD	Monroe County Emergency Management Division
MCHD	Monroe County Health Department
MCPD	Monroe City Police Department
MCRC	Monroe County Road Commission
MCSD	Monroe County Sheriff's Department
MIOC	Michigan Intelligence Operations Center
MMH	Mercy Memorial Hospital
MPSCS	Michigan Public Safety Communications System
MSP	Michigan State Police
NPEN	Nuclear Plant Event Notification
NRC	Nuclear Regulatory Commission
ORO	Offsite Response Organization
OSLD	Optically Stimulated Luminescent Dosimeter
PAA	Protective Action Area
PAO	Protective Action Order
PAR	Protective Action Recommendation
PIO	Public Information Officer
PIS	Public Inquiry Supervisor
PM	Portal Monitor
PPE	Personnel Protective Equipment
PRD	Permanent Reading Dosimeter
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Services
REA	Radiation Emergency Area
REP	Radiological Emergency Preparedness
RRT	Radiation Response Team
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
SOP	Standard Operating Procedure
SSO	School Services Official
TCP	Traffic Control Post

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TEDE	Total Effective Dose Equivalent
TSC	Technical Support Center
TSG	Technical Support Group
UE	Unusual Event
UHF	Ultra High Frequency
VHF	Very High Frequency

APPENDIX E: EXERCISE PLAN

This appendix lists the exercise criteria, which were scheduled for demonstration in the Fermi 2 Nuclear Power Plant Radiological Emergency Preparedness Partial Participation Plume Exposure Pathway Exercise on August 21, 2012, the Medical Services (MS-1) Drill on September 6, 2012, and the offsite extent-of-play agreement accepted by DHS/FEMA Region V on August 16, 2012.

The exercise criteria, contained in the FEMA REP Program Manual dated April 2012, represent a functional translation of the planning standards and evaluation criteria of NUREG-0654/FEMA-REP-1, Rev1, "Criteria for the Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980. Because the exercise criteria are intended for use at all nuclear power plant sites, and because of variations among offsite plans and procedures, an extent-of-play agreement is prepared by the State and accepted by DHS/FEMA to provide evaluators with guidance on expected actual demonstration of the criteria.

**STATE OF MICHIGAN AND MONROE AND WAYNE COUNTIES EXTENT OF PLAY
AGREEMENT
FOR THE
FERMI 2 NUCLEAR POWER PLANT REP EXERCISE**

August 21, 2012

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

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

State of Michigan

1. The State Emergency Operations Center (SEOC) and Field Team Center (FTC) Sim Cell will be fully activated. State personnel reporting to the SEOC will be mobilized in accordance with procedures.
2. State personnel reporting to the county Emergency Operations Centers (EOC) and FTC Sim Cell will be pre-positioned and will report when mobilized by the SEOC.
3. State personnel reporting to the Joint Information Center (JIC) will be pre-positioned and will begin participation after the arrival of Monroe and Wayne County JIC personnel.
4. State personnel involved in out of sequence demonstrations will be pre-staged.
5. A roster will be provided to demonstrate 24-hour staffing.

Monroe County

1. The Monroe County EOC will be activated and mobilized in accordance with procedures.
2. Monroe County JIC personnel will be mobilized in accordance with procedures.
3. All personnel involved in out of sequence demonstrations will be pre-positioned.
4. A roster will be provided to demonstrate 24-hour staffing of the county EOC.

Wayne County

1. The Wayne County EOC will be activated and mobilized in accordance with procedures.
2. Wayne County JIC personnel will be mobilized in accordance with procedures.
3. All personnel involved in out of sequence demonstrations will be pre-positioned.
4. A roster will be provided to demonstrate 24-hour staffing of the county EOC.

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

State of Michigan

1. The SEOC is maintained in operational readiness and set up will not be demonstrated.

2. The FTC will not be demonstrated.

Monroe County

The Monroe County EOC is maintained in operational readiness and set up will not be demonstrated

Wayne County

The Wayne County EOC is maintained in operational readiness and set up will not be demonstrated

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.

State of Michigan

This criterion will be demonstrated at the SEOC and the JIC.

Monroe County

This criterion will be demonstrated at the county EOC.

Wayne County

This criterion will be demonstrated at the county EOC.

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

State of Michigan

This criterion will be demonstrated by the SEOC, FTC Sim Cell and at the JIC. If both the primary and back-up systems fail, this objective may be demonstrated by successful use of an alternate method of communication.

Monroe County

This criterion will be demonstrated by the county EOC, JIC, Public Reception Centers and Access Control. If both the primary and back-up systems fail, this objective may be demonstrated by successful use of alternative method of communication.

Wayne County

This criterion will be demonstrated by the county EOC, JIC and Access Control. If both the primary and back-up systems fail, this objective may be demonstrated by successful use of alternative method of communication.

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

State of Michigan, Monroe and Wayne County

1. Equipment, maps, displays, and other supplies will be demonstrated to support emergency operations at the SEOC, JIC, county EOCs and out of sequence events.
2. Personnel involved in traffic and access control points will demonstrate knowledge of where to secure traffic control equipment.
3. KI and dosimeters are stored at the county.
4. Additional supplies of KI are stored at the Michigan State Police Emergency Management and Homeland Security (MSP/EMHSD) office in Lansing. These supplies are meant to augment the counties' supplies.
5. Documentation related to emergency worker KI shelf life extension is maintained by MSP/EMHSD and will be provided to FEMA at the Pre-Exercise Briefing along with instrument calibration data.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

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

State of Michigan

1. The ability to make the decision to recommend the use of KI to emergency workers will be demonstrated by the SEOC.
2. Authorization to exceed state exposure limits will be demonstrated. If the scenario does not provide an opportunity to demonstrate these items, a controller inject will be issued to demonstrate the ability to perform these actions.

Monroe and Wayne Counties

This criterion does not apply.

Note: This criterion may be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance committee.

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

State of Michigan

1. The Technical Support Group (TSG) in the SEOC will evaluate licensee and FTC Sim Cell provided information, and complete an independent analysis of scenario data.
2. Dose assessment evaluation will be conducted in the SEOC and/or at the FTC Sim Cell as appropriate.

Monroe and Wayne Counties

This criterion does not apply.

Note: This criterion may be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee.

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

State of Michigan

1. This criterion will be demonstrated by the Incident Management Group in the SEOC in conjunction with applicable support staff including the TSG and Michigan Department of Community Health (MDCH).
2. KI policy will be demonstrated at the General Emergency declaration through a press release at the JIC and through SEOC discussion.

Monroe and Wayne Counties

This criterion does not apply.

Note: This criterion may be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee.

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

State of Michigan

This criterion will be demonstrated by the Incident Management Group in the SEOC in conjunction with applicable support staff, through the decision to recommend the use of KI to institutionalized persons that cannot be evacuated.

Monroe County

1. Lists of transportation dependent and functional needs populations are kept by the county. No personnel will be moved. No phone calls to transportation dependent persons will be made. Simulation of calls will be logged as such.
2. Equipment lists and rosters will be available in the county EOC.
3. The School Services Representatives in the Monroe County EOC will make phone contact with affected school districts if schools are in session. No scenario information will be discussed during these calls.

Wayne County

1. Lists of transportation dependent and functional needs populations are kept by the county. No personnel will be moved. No phone calls to transportation dependent persons will be made. Simulation of calls will be logged as such.
2. Equipment lists and rosters will be available in the county EOC.
3. The School Services Representatives in the Wayne County EOC will make phone contact with affected school districts if schools are in session. No scenario information will be discussed during these calls.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

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

State of Michigan

This criterion will be demonstrated by the State of Michigan's Department of Environmental Quality during the out of sequence demonstrations on August 20th and August 22nd.

Monroe County

1. Monroe County will demonstrate this criterion out of sequence at the reception center and decontamination centers.
2. Monroe County will demonstrate this criterion for access control at the Monroe County EOC.

Wayne County

Wayne County will demonstrate this criterion for access control at the Wayne County EOC.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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

State of Michigan

This criterion will be demonstrated at the JIC.

Monroe County

Monroe County will demonstrate the ability (simulate) to administer KI to institutionalized individuals.

Wayne County

Wayne County will demonstrate the ability (simulate) to administer KI to institutionalized individuals.

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

State of Michigan

This criterion does not apply to the state for this exercise.

Monroe County

1. This criterion will be demonstrated in the EOC via staff discussions that may include evacuation of hospitals, nursing homes, correctional facilities, mobility impaired individuals, and transportation dependent. These discussions will be documented in situation logs.
2. Actual contacts to special population groups will not be made. Simulation of calls will be logged as such.
3. Monroe County will contact a minimum of four providers of transportation services, which may include public transit authorities, school systems for buses, ambulance services, or fire/rescue services. An endeavor will be made to contact a third of the total number of transportation providers. There will be no discussion of scenario information during these calls.

Wayne County

1. This criterion will be demonstrated in the EOC via EOC staff discussions that may include evacuation of hospitals, nursing homes, correctional facilities, mobility impaired individuals, and transportation dependent. These discussions will be documented in situation logs.
2. Actual contacts to special population groups will not be made. Simulation of calls will be logged as such.
3. Wayne County will contact a minimum of four providers of transportation services, which may include public transit authorities, school systems for buses, ambulance services, or fire/rescue services. An endeavor will be made to contact a third of the total number of transportation providers. There will be no discussion of scenario information during these calls.

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

State of Michigan

This criterion does not apply.

Monroe County

1. This criterion will be demonstrated by Monroe County EOC as driven by the scenario. If schools are not in session, the FEMA evaluator will conduct an interview with the schools representative in the county EOC.

2. An EV-2 interview will be conducted in Monroe County. Refer to the Table of Exercise Demonstrations for specific times and locations.

Wayne County

1. This criterion will be demonstrated by Wayne County EOC as driven by the scenario. If schools are not in session, the FEMA evaluator will conduct an interview with the schools representative in the county EOC.
2. An EV-2 interview will be conducted in Wayne County. Refer to the Table of Exercise Demonstrations for specific times and locations.

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

State of Michigan

This criterion will be demonstrated by the SEOC through the restriction of air, rail, and waterway access.

Monroe County

1. Decisions related to traffic and access control will be demonstrated at the Monroe County EOC (parking lot).
2. Staffing of all other access and traffic control points will be simulated.

Wayne County

1. Decisions related to traffic and access control will be demonstrated at the Wayne County EOC (parking lot).
2. Staffing of all other access and traffic control points will be simulated.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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

State of Michigan

This criterion does not apply.

Monroe County

This will be demonstrated through discussions at the county EOC. Messages will be injected by Exercise Controllers to drive these demonstrations. Personnel will deal with the impediments by discussing the need for equipment, discussing its estimated time of arrival, etc. If the impediment posed involves road closures that would have been known to exercise participants during the course of normal operations, this information will be provided to the players as part of the initial conditions for the exercise. All contacts, actual or simulated will be logged.

Wayne County

This will be demonstrated through discussions at the county EOC. Messages will be injected by Exercise Controllers to drive these demonstrations. Personnel will deal with the impediments by discussing the need for equipment, discussing its estimated time of arrival, etc. If the impediment posed involves road closures that would have been known to exercise participants during the course of normal operations, this information will be provided to the players as part of the initial conditions for the exercise. All contacts, actual or simulated will be logged.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

Criterion 3.f.1: Decisions regarding controlled re-entry of emergency workers and relocation and return of the public are coordinated with appropriate organizations and implemented.

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 4 - FIELD MEASUREMENTS AND ANALYSIS

Criterion 4.a.1: [RESERVED]

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

Criterion 4.b.1: The field teams (2 or more) demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making.

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

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

State of Michigan

The State will provide information to each county for release in the Emergency Alert System messages.

Monroe County

Monroe County is the primary activation point for the public warning sirens. Monroe County also activates the Emergency Alert System (EAS). An interview with WJR personnel will be conducted by FEMA following transmittal of EAS messages.

Wayne County

Wayne County will provide, as needed, information to Monroe County for inclusion in EAS messages.

Note: This criterion may be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee.

Criterion 5.a.2: [RESERVED]

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

This criterion will not be demonstrated during this exercise.

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

The Fermi 2 Emergency Planning Zone (EPZ) does not contain any DHS/FEMA approved exception areas. This criterion will not be demonstrated during this exercise.

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

State of Michigan, Monroe County and Wayne County

1. This will be demonstrated at the JIC via dissemination of emergency information and instructions through joint media briefings and news release announcements in coordination with the SEOC and County EOCs. All media briefings will be conducted at the JIC.
2. A public inquiry hotline will be operated by Monroe County during the exercise by personnel based at the Monroe County Emergency Management Office. Trending is performed by the Rumor Control Coordinator, who identifies trends and ensures appropriate information is provided to the public inquiry operators and the JIC for inclusion in press briefings.

Note: This criterion may be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee.

EVALUATION AREA 6 - SUPPORT OPERATIONS/FACILITIES

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

State of Michigan

Michigan Department of Environmental Quality (DEQ) Health Physics (HP) personnel will provide assistance as requested during these demonstrations.

Monroe County

1. Monroe County will fully demonstrate a public reception/decontamination center out-of-sequence from the exercise.
2. Public reception centers will demonstrate 1/3 of the monitoring teams required to monitor 20% of the population allocated to that facility within a 12-hour period. One team will monitor six individuals.

Wayne County

This criterion will not be demonstrated during this exercise.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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

State of Michigan

This criterion will not be demonstrated during this exercise.

Monroe County and Wayne County

This criterion will not be demonstrated during this exercise.

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

State of Michigan

This criterion does not apply.

Monroe County

Monroe County will fully demonstrate a congregate care center out of sequence with the exercise. This facility will be set up in advance of the demonstration. Personnel operating the

center will not go through alert, mobilization, activation, or shift changes. Appropriate 24/7 staffing will be demonstrated via personnel rosters, call-up lists, etc.

Wayne County

This criterion will not be demonstrated during this exercise.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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

This criterion will be demonstrated during the MS-1 exercise. A date for this criterion will be determined.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

**EXTENT OF PLAY AGREEMENT
FOR THE
MEDICAL SERVICES DRILL
September 6, 2012**

Location: Mercy Memorial Hospital
Transportation Provider: Monroe Community Ambulance
718 North Macomb Street.
Monroe, MI 48162

Participants:

Lead Controller: Tonya Nobach
Monroe Community Ambulance Controller: Thom Higinbotham
Medical Controller: Bruce C. Monday
Hospital Controller: Tonya Nobach
Victim:
MDEQ (Department Environmental Quality) ER Monitor: David Asselin
MDEQ Ambulance Monitor: Bob Skowronek

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: For Transportation: 1.d.1, 3.a.1 and 6.d.1; for the Hospital, 1.d.1, 1.e.1, 3.a.1 and 6.d.1. Criteria may be re-demonstrated, as agreed by the Lead Controller and FEMA Evaluators.

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

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

Monroe Community Ambulance will use 2-way radios to communicate with Mercy Memorial Hospital. Other communication systems that can be used include commercial telephone or cell phones.

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

Mercy Memorial Hospital will adequately demonstrate the ability to support operations, with adequate resources. The availability of dosimetry and KI for hospital personnel will be demonstrated during this exercise, Monroe Community Ambulance staff will also be issued dosimetry and KI as Monroe County Emergency Workers.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The Offsite Response Organizations (OROs) issue appropriate dosimetry and procedures, and manage radiological exposure to emergency workers in accordance with the plan and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.

The use of dosimetry and KI will be demonstrated by hospital staff.

The issuance of dosimetry and KI to Monroe Emergency Workers was successfully demonstrated on August 20th, 2012 and will not be evaluated. Similarly, the Issuance of dosimetry and KI to MDEQ staff was successfully demonstrated on August 20th, 2012 and will not be evaluated.

For purposes of this exercise, if there is no medical need to bring equipment into and out of the treatment room, swabs will be taken at the injury locations and passed out of the room to demonstrate movement of equipment and supplies into and out of the controlled area.

EVALUATION AREA 6.d – TRANSPORTATION AND TREATMENT OF CONTAMINATED INJURED INDIVIDUALS

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

The hospital will demonstrate procedures for limiting exposure to hospital staff, decontaminating a patient, and restricting access to the area where the patient is being treated and monitored.

Monroe Community Ambulance will demonstrate the capability to transport a contaminated, injured individual to Mercy Memorial Hospital in Monroe. The ambulance crew will pick up a contaminated injured patient near the Fermi 2 Nuclear Plant (should inclement weather conditions exist, the Lead Controller may simulate the outdoor accident scene and begin the drill from the Monroe EOC Office Building. The ambulance crew will be met by Michigan Department of Environmental Quality (MDEQ) staff that will perform initial radiation monitoring, and will provide information regarding contamination levels on the patient. Monroe Community Ambulance will utilize universal precautions and good housekeeping practices to minimize the spread of contamination, and will focus on treating the patient's medical condition.

Monroe Community Ambulance will call in the information regarding the patient to Mercy Memorial Hospital in Monroe so they can prepare for receipt of a contaminated patient. MDEQ personnel will accompany the patient to the hospital along with the ambulance, bringing instrumentation to provide radiation readings and guidance to the hospital.

Mercy Memorial Hospital will implement their plan for receipt, isolation and treatment of an injured contaminated patient. Medical personnel will utilize universal precautions and good housekeeping practices to minimize the spread of contamination, and will focus on treating the patient's medical condition. Simple decontamination efforts will be demonstrated after the patient has been medically stabilized. MDEQ personnel will discuss the need to take additional samples for further radiological analysis. Hospital personnel will demonstrate their knowledge of who to call beyond MDEQ for assistance in Radiological Accidents, e.g., REAC/TS.

Another MDEQ staff member will be dispatched to Mercy Memorial Hospital with radiation detection and measurement equipment in advance of the ambulance arriving.

The drill will conclude with the hospital representative and MDEQ personnel supervising the removal of protective clothing and surveying of the emergency room and hospital personnel. MDEQ will also advise on the proper procedure for release or disposal of contaminated material. Termination will be at the discretion of the Lead Drill Controller based on successful demonstration of objectives.

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