

**Department of Homeland Security
Federal Emergency Management Agency, Region V
536 S. Clark Street, Chicago, IL 60605
Radiological Emergency Preparedness Program**

**ANNUAL LETTER OF CERTIFICATION REVIEW GUIDE
State of Indiana – Calendar Year 2020
Review date: February 22, 2021**

Purpose:

To provide guidance for review and evaluation of the Annual Letter of Certification (ALC) submitted by the States for compliance with periodic requirements.

Scope:

The State ALC is reviewed to determine whether all information/documentation is included pursuant to laws and regulations and the Federal Emergency Management Agency (FEMA) Radiological Emergency Preparedness (REP) Program Manual. Information contained in the ALC is compared with the offsite response organizations (ORO) plans/procedures and the Alert and Notification System (ANS) design reports for consistency and accuracy.

Requirement:

- ✓ 44 CFR part 350
- ✓ NUREG-0654/FEMA-REP-1 Planning Standard
 - A. 24-Hour Staffing Capability
 - G. Public Education and Information
 - H. Emergency Facilities and Equipment
 - N. Exercises and Drills
 - O. Radiological Emergency Response Training
 - P. Responsibility for the Planning Effort
- ✓ FEMA-REP-10
- ✓ FEMA REP Program Manual

Confirm that the ALC includes the following items:

Update of Plans/Procedures and Letters of Agreement

1. A statement that ORO plans/procedures and Letters of Agreement (LOAs) have been reviewed for accuracy and completeness of information, and appropriate changes made. Updated LOAs and plan/procedure amendments must be submitted if not received previously.

This statement must include the:	Y	N	N/A	ALC Reference / Comments
a. ORO plans/procedures were reviewed for accuracy and completeness	X			<u>Radiological Emergency Preparedness (REP) Ingestion Pathway Annex</u> There were minimal plan changes in 2020 as a result of COVID-19 and civil unrest. The Ingestion Pathway Plan, along with the Field Monitoring SOP, Radiochemical Assessment, and Key Action List, were completely rewritten in January 2019 and remain accurate and complete in 2020.
b. Letters of Agreement (LOAs) were reviewed for accuracy and completeness	X			<u>Update of Plans/Procedures and Letters of Agreement Section C</u> "The Indiana Department of Homeland Security does not utilize letters of agreements."
c. Updated LOAs/amendments submitted	X			<u>Update of Plans/Procedures and Letters of Agreement Section C</u> "The Indiana Department of Homeland Security does not utilize letters of agreements."
d. Updated plan/procedure amendments submitted	X			<u>Update of Plans/Procedures and Letters of Agreement Section A</u> "The Indiana Ingestion Pathway Plan had an update in 2020 including the creation of and still a work in progress of a Field Guide that provides field teams Field Monitoring SOP."

Public Education and Information

1. A statement that annual dissemination of information to the public was performed, and that the information includes how the public will be Notified and what their actions should be in an emergency. This may be accomplished by, but is not necessarily limited to, annual publications, periodic information in utility bills, and information in telephone books. (NUREG-0654/FEMA-REP-1, Evaluation Criteria G.1 and G.2)				
This statement must include the:	Y	N	N/A	ALC Reference / Comments
a. Dates of dissemination			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
b. Means of dissemination			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
c. Identification of recipients			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
d. Copies of all public information materials			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
e. Organizations responsible for distribution			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
2. A statement that emergency information was disseminated to locations frequented by transient populations in the emergency planning zone (EPZ), including (if applicable) hotels, motels, gas stations, phone booths, parks, marinas, boats, and other recreational areas. This may be accomplished by, but need not be limited to, decals, posters, or brochures/pamphlets. (NUREG-0654/FEMA-REP-1, Evaluation Criteria G.1 and G.2)				
This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Dates of dissemination			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
b. Means of dissemination			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
c. Identification of locations where information was distributed or posted			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
d. Copies of all public information materials			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
e. Organizations responsible for distribution			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
3. A statement (if applicable) that yearly maintenance and updates on emergency public information signs located along rivers, parks, and other recreational areas were performed. (NUREG-0654 / FEMA-REP-1, Evaluation Criteria G.1 and G.2)				
This statement also:	Y	N	N/A	ALC Reference / Comments
a. Certifies that parks and other recreational areas were not expanded, nor were new transient areas added to the plume EPZ. If expansions or additions were made, a statement must be provided that the appropriate additional signs were installed.			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
b. Identifies organizations responsible for maintenance/ updates			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
4. A statement that emergency public information materials for the ingestion pathway were updated and distributed. (NUREG-0654/FEMA-REP-1, Evaluation Criteria G.1 and G.2)				
This statement must include:	Y	N	N/A	ALC Reference / Comments

a. Means of dissemination	X			"IDHS provides radiological emergency preparedness information to the public through its website." https://secure.in.gov/dhs/fire-and-building-safety/fire-investigations/hazmat-and-radiation/radiological-emergency-preparedness-program/
b. Copies of public information materials	X			"The IDHS website also provides the public with information about the IDHS REP program." https://secure.in.gov/dhs/fire-and-building-safety/fire-investigations/hazmat-and-radiation/radiological-emergency-preparedness-program/
5. A statement that annual media program was conducted to acquaint news media with emergency plans/procedures, information concerning radiation, and points of contact for release of public information in emergency. (NUREG-0654/FEMA-REP-1, Evaluation Criterion G.5)				
This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Date(s) held			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
b. Agencies/organizations invited/ participated			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
c. Organizations that sponsored program			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
d. Description of program			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
NOTE: In instances of poor attendance, in lieu of a meeting, a statement that program materials covering requisite topics were mailed to media representatives must be provided.				
Radiological Emergency Response Training				
1. A statement that initial training and annual retraining of personnel who implement radiological emergency response plans/procedures have been accomplished. (NUREG-0654/FEMA-REP-1, Evaluation Criterion O.5)				
Statement must include the following for all training conducted:	Y	N	N/A	ALC Reference / Comments
a. All required organizations were offered training pursuant to ORO plans/procedures	X			<u>ALC Letter pg. 2 – Radiological Emergency Response Training:</u> <ul style="list-style-type: none"> The state remained active with the REP program during the 2020 Pandemic by conducting a combination of outreach training activities and presentations. An executive summary, scope and purpose, agencies involved, agenda, dates and meeting minutes are included in (Enclosures a-m). The interim REP Coordinator for the Indiana Department of Homeland Security provided information through an interview that the REP Coordinator in 2020 did attend and assist in several radiation awareness and radiation detection courses that were provided by the state radiation programs to the Indiana Department of Natural Resources and the Indianapolis Metro Police Department.
b. Scope and purpose	X			<u>ALC Letter pg. 2 – Radiological Emergency Preparedness Training:</u> <ul style="list-style-type: none"> "Due to Pandemic, in 2020 the Indiana Department of Homeland Security did not host FEMA REP classroom trainings however REP trivia games, REP overviews, and REP discussions were given at in person meetings as well as virtually." The scope of training is discussed in the Indiana Ingestion Pathway Base Plan, Plan Maintenance, Section B pg.37-41. The section also details the training matrix and audience.
c. Dates training were held	X			<u>ALC Letter pg. 2 – Radiological Emergency Preparedness Training:</u>

			<ul style="list-style-type: none"> • Jan. 15- District 1 Healthcare Coalition, spoke on Ingestion Pathway and passed out media brochures (Enclosure a). • Jan. 28-30- IDHS Basic PIO course with REP focus, utilizing Press Release from REP exercise (Enclosure b). • February 11- District 1 DPC meeting, outreach with ingestion pathway counties and gave updates on REP program (Enclosure c). • March 9-REP presentation to Indiana IERC IN Emergency Response Commission, Firefighters Union Hall, Indianapolis (Enclosure d.1.and d.2). • May 14-District 2 Healthcare/DPC virtual REP presentation (Enclosure e.1. and e.2). • June 17- Outreach email to ingestion pathway counties with CDC poster attachment on where to go if radiation emergency occurs (Enclosure f.1. and f.2). • July 14-District 1 DPC meeting-presented updates and reminders on REP (Enclosure g). • July 21-District 1, 2 and 4 Emergency Manager meeting – trivia game on REP (Enclosure h). • August 7-District 2 quarterly Emergency Manager meeting – presented updates on REP and DC Cook nuclear power plant (Enclosure i). • September 10- Radiological Emergency Preparedness for Indiana Ingestion Pathway Counties outreach email to all ingestion pathway counties plus all 10 Districts in Indiana, radiation fact sheets from the CDC and reminder of Indiana's role for an incident (Enclosure j.1. and j.2). • October 14 - Virtual Integrated Preparedness Planning Workshop – discussed on possible virtual REP Courses (Enclosure k). • November 7 -8 – Virtual REP Training and Exercise Planning Workshop – Represented the State of Indiana REP (Enclosure l). • November 18 -19 – Indiana Alliance of Hazardous Materials Responders – Represented the State of Indiana REP Program and Ingestion Pathways discussion (Enclosure m).
d. Number of participants	X		<p><u>ALC Letter pg. 2 – Radiological Emergency Preparedness Training:</u></p> <ul style="list-style-type: none"> • A total of 343 personnel received REP training and information.
e. Agencies/organizations represented	X		<p><u>ALC Enclosures a-m – Radiological Emergency Response Training:</u></p> <p>Agencies represented by training/outreach activity.</p> <ul style="list-style-type: none"> • Jan. 15- District 1 Healthcare Coalition, Nursing Home Facilities, Home Health Care, EMA's, Rehab Facility, Hospitals, FBI, Red Cross, Hospice, Health Departments, Amateur Radio Operators (Enclosure a). • Jan. 28-30- IDHS Basic PIO course with REP focus, Fire Departments, Police, IDHS PIOs, Salvation Army, Indiana Board of Animal Health, Emergency Management (Enclosure b). • February 11- District 1 DPC meeting, IDHS Training and Exercise, Emergency Managers, FEMA LNO, Fire Department, IDHS Radiation Transportation (Enclosure c). • March 9-REP presentation to Indiana IERC IN Emergency Response Commission, Indiana Department of Environmental Management, State Fire Marshall Office, Business/Industry, US Department of Transportation, Local Emergency Planning Committee, Emergency Managers (Enclosure d.1.and d.2). • May 14-District 2 Healthcare/DPC, Hospitals, Assisted Living Facilities, Emergency Managers, Police Departments, Fire Departments, Indiana State Department of Health, National Weather Service, Indiana Department of Transportation, Indiana Public Safety Commission (Enclosure e.1. and e.2). • June 17- Outreach email to ingestion pathway counties, Emergency Managers, Indiana Board of Animal Health, Indiana Department of Transportation, Healthcare Facilities, Indiana Public Safety Commission, Indiana Department of

				<p>Environmental Health, Hazmat Teams (Enclosure f.1. and f.2).</p> <ul style="list-style-type: none"> • July 14-District 1 DPC meeting, Emergency Managers, Indiana Public Safety Commission, Hospitals, National Weather Service, Indiana Department of Transportation (Enclosure g). • July 21-District 1, 2 and 4 Emergency Manager meeting, Emergency Managers, IDHS District Liaison (Enclosure h). • August 7-District 2 quarterly Emergency Manager meeting, Emergency Managers, IDHS District Liaisons (Enclosure i). • September 10- Radiological Emergency Preparedness for Indiana Ingestion Pathway Counties outreach email to all ingestion pathway counties plus all 10 Districts in Indiana, Emergency Managers, Indiana Department of Transportation, Indiana Board of Animal Health, Hazmat Teams, National Weather Service, Indiana Board of Animal Health, Indianapolis Metro Police Department (Enclosure j.1. and j.2). • October 14 - Virtual Integrated Preparedness Planning Workshop, executive summary found in (Enclosure k). • November 7 -8 – Virtual REP Training and Exercise Planning Workshop – Represented the State of Indiana REP (Enclosure l). • November 18 -19 – Indiana Alliance of Hazardous Materials Responders – Represented the State of Indiana REP Program and Ingestion Pathways discussion with Emergency Mangers and first responders throughout Indiana (Enclosure m).
f. Agencies/organizations invited, but who did not attend.	X			<p>ALC – Radiological Emergency Response Training pg.2</p> <ul style="list-style-type: none"> • Course/outreach dates and attendance rosters (Enclosure a-m).
g. Organizations that sponsored the training.	X			<p>ALC – Radiological Emergency Response Training pg. 2</p> <ul style="list-style-type: none"> • All trainings were sponsored by the Indiana Department of Homeland Security Radiation/REP program. The majority of trainings and REP outreach were conducted virtually in conjunction with standing meetings including REP stakeholders.
<p>Drills</p> <p>NOTE: These drills shall not be part of a regularly scheduled exercise (NUREG-0654/FEMA-REP-1, Evaluation Criterion N.2), with exception of the annual medical drill. Only non-evaluated drills need to be reported in the ALC.</p>				
1. A statement that communication drills (NUREG-0654/FEMA-REP-1, Evaluation Criterion N.2.a) were conducted:				
This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Monthly between the State and OROs within plume EPZ			X	<p>ALC Letter pg. 3 - Communication Drills: Communication Drills</p> <p>NOTE: Indiana is not required to conduct monthly communications drills (plume EPZ requirement) under the REP Program; they do conduct a monthly communication check with their 92 counties.</p> <ul style="list-style-type: none"> • <i>"The Indiana Department of Homeland Security (IDHS) conducts monthly communication tests with all ninety-two (92) counties within the State of Indiana. These would cover the counties that are part of the Ingestion Emergency Planning Zone as well. These tests include but not limited to 800 MHz radios, 155 MHz radios and WebEOC communication notifications."</i>
b. Quarterly between State and Federal emergency response organizations and states within ingestion pathway EPZ	X			<p>ALC Letter pg. 3 Communication Drills</p> <ul style="list-style-type: none"> • <i>"The Indiana Department of Homeland Security (IDHS) and Illinois Emergency Management Entergy, Palisades Nuclear Power Plant located in Covert, Michigan, conducted an annual communication test with the IDHS SEOC. The state of Illinois initiates a call with IDHS quarterly. IDHS REP coordinator reached out to Illinois and Michigan several times to ensure a communication drill took place with the IDHS Watch Desk. Enclosed is an email of finding of drill</i>

				with Illinois. This is an area that needs work and IDHS along with REP coordinator need to develop an SOP for the drill. (Enclosure E)."
c. Annually between NPP, State, and local emergency operations centers, and radiological field monitoring teams			X	<ul style="list-style-type: none"> Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties (Indiana would not receive a call from the NP; the local emergency operations centers are not part of the REP Program; and they do not have field monitoring teams).
d. Dates of communication drills and participating organizations	X			ALC Letter pg.3 Communication Drills <ul style="list-style-type: none"> "The Indiana Department of Homeland Security (IDHS) and Illinois Emergency Management Entergy, Palisades Nuclear Power Plant located in Covert, Michigan, conducted an annual communication test with the IDHS SEOC. The state of Illinois initiates a call with IDHS quarterly. IDHS REP coordinator reached out to Illinois and Michigan several times to ensure a communication drill took place with the IDHS Watch Desk. Enclosed is an email of finding of drill with Illinois. This is an area that needs work and IDHS along with REP coordinator need to develop an SOP for the drill. (Enclosure E)."
2. A statement that radiological monitoring drill related to plume EPZ was conducted annually and included collection and analyses of all sample media (e.g., water, vegetation, soil, and air) with provisions for communication and record keeping. Where a State is responsible for more than one site, the State portion of drills need not be done at each site. (NUREG-0654/FEMA-REP-1, Evaluation Criterion N.2.d)				
This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Dates of monitoring drills			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
b. Organizations that participated			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
NOTE: These drills must involve personnel and resources for field team coordination and field teams.				
3. A statement that health physics drills were conducted semiannually with licensees that included response to, and analyses of, simulated elevated airborne and liquid samples and direct radiation measurements in environment. Where a State is responsible for more than one site, the State portion of drills need not be done at each site. (NUREG-0654/FEMA-REP-1, Evaluation Criterion N.2.e)				
This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Dates of health physics drills			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for the Plume Emergency Planning Zone counties.
b. Organizations that participated			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Plume Emergency Planning Zone counties.
NOTE: Health physics drills must involve personnel and resources for dose assessment.				
24-Hour Staffing (NUREG-0654/FEMA-REP-1, Evaluation Criterion A.1.e)				
1. A statement that sufficient trained and capable staff is available to maintain 24-hour capability for protracted activation.				
This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Title/position responsible for 24-hour emergency response	X			IN Ingestion Pathway Plan - State Emergency Operations Center pg. 23: <ul style="list-style-type: none"> "IDHS is the emergency response coordinating agency for the State of Indiana. The Governor has delegated authority for response decision-making to the IDHS Executive Director. The IDHS Executive Director, the Division Director of Response and Recovery and/or the Response Director

				have authority to make decisions regarding all response activities.”
b. Procedures for 24-hour emergency response	X			ALC Letter pg.3, 24 Hour Staffing, Emergency Facilities and Equipment: <ul style="list-style-type: none"> • The Indiana Department of Homeland Security (IDHS) Watch Desk Officer Schedule Policy (Enclosure I). • IDHS contact list and organizational roster (Enclosure J). • Response Division Organizational Chart for Watch Desk staffing (Enclosure K).
c. Location of 24-hour communications center	X			IN Ingestion Pathway Plan – State Emergency Operations Center pg.23 <ul style="list-style-type: none"> • “The SEOC supports local jurisdictions and coordinates with federal response agencies. The SEOC is staffed 24-hours a day, 365 days a year and is located at 402 West Washington Street, Indianapolis, Indiana 46204.” The 24-hour communication center and the SEOC are one in the same. There is an alternate SEOC location capable of housing the SEOC, ESF’s, and ancillary personnel for an extended period of time.
d. Refer to 24-hour communications center personnel roster	X			ALC Letter pg. 3 24 Hour Staffing: <ul style="list-style-type: none"> • The Indiana Department of Homeland Security (IDHS) Watch Desk Officer Schedule Policy (Enclosure I).
e. Specify primary and backup means of communication	X			IN Ingestion Pathway Plan pg. 22 – Initial Notification: <ul style="list-style-type: none"> • “The affected state will notify the IDHS 24-hour Watch Desk by phone, 800-669-7362. Primary means of communications will be by phone. Alternate communication means for initial notification will be by fax, email, satellite phones or FEMA National Radio System (FNRS). Satellite phones are located with the SEOC, REP program coordinator, Hazmat responders and district coordinators. Pre-identified personnel shall be notified through email by the Watch Desk. The IDHS Watch Desk will notify the radiation duty officer (RAD 1), radiological emergency preparedness program (REP) coordinator, radiation program director, and Hazmat section chief. Additionally, a WebEOC event will be created in order to track the incident.”

Emergency Facilities and Equipment

(NUREG-0654/FEMA-REP-1, Evaluation Criteria H.3; G.3.a; J.10.h; J.12; K.5.b)

- 1. Identification of facilities that are new or have had substantial changes in structure or mission since initial evaluation.**
A substantial change is one that has a direct affect or impact on the emergency response operations performed in those facilities.

This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Verification that the facility has been evaluated, or the expected date of the evaluation			X	The facility has not been evaluated due to COVID-19 restrictions. Expected date for the evaluation will be determined when travel/in person meeting restrictions have been lifted.

- 2. Certification that no substantial changes in structure or mission of previously reported facilities have occurred since initial evaluation.**

This statement must affirm that:	Y	N	N/A	ALC Reference / Comments
a. There are no other new emergency response facilities, communications systems, or congregate care facilities	X			<ul style="list-style-type: none"> • Discussion with IDHS REP in January 2021 determined there are no new facilities or communications systems. • Congregate care facilities are not applicable to Indiana.
b. None of the other current facilities, communications systems, or congregate care facilities in the plans/procedures has undergone substantial changes			X	<ul style="list-style-type: none"> • Congregate care facilities are not applicable to Indiana.

3. A statement that inspection, inventory, and operational checks were made of survey instruments utilized for radiological monitoring (evacuee and emergency worker) and environmental monitoring and analysis (radiological field monitoring teams and radiological laboratory) at least once each calendar quarter and upon each use. (NUREG-0654/FEMA-REP-1, Evaluation Criterion H.10)				
This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Type of equipment	X			<u>ALC Letter pg. 4-5 - Equipment:</u> <ul style="list-style-type: none"> Inventory Direct-Read Dosimeters, Inventory Radiation Survey Meters, Inventory Permanent/Non-Direct Read Dosimeters (Enclosure L). Indiana State Department of Health Labs Survey Equipment (Enclosure N).
b. Quantity of equipment	X			<u>ALC Enclosure L – REP Equipment Inventory Radiation Meters:</u> <ul style="list-style-type: none"> Ludlum 192=6 Ludlum 2241-3=5 Ludlum 193-6=3 Ludlum 2241-2RK=58 Ludlum 78=1 Ludlum 193-6=2 Ludlum 3=50 Ludlum 4002-227=6 Ludlum 177-61=1 Ludlum 177-45=2 Ludlum 14C=2 Ludlum 12S=1 Ludlum 177=2 Ludlum 2=8 Total 147 <u>ALC Enclosure L REP Equipment Inventory PRD Dosimeter – DRDs</u> <u>ALC Enclosure REP Equipment Inventory – Rad Watch Dosimeters (PRDs)</u> <ul style="list-style-type: none"> Polimaster PM1703MO-1 DRD=89 RAD Watches (PRDs)=29
c. Location of equipment	X			<u>ALC - Emergency Facilities and Equipment pg. 4:</u> <ul style="list-style-type: none"> "The enclosed lists note equipment being stored at the Indiana Department of Homeland Security (IDHS) 5 Points logistic facility, located at 7100 East Troy Avenue (5 Points Facility), Indianapolis, IN and assigned to various responders throughout Indiana. The logistics facility is secured with limited access and has a climate-controlled area for the radiation equipment, dosimeters, and rad survey meters."
d. Calibration frequency	X			<u>ALC – Emergency Facilities and Equipment pg. 4:</u> <ul style="list-style-type: none"> "All the survey meters/dosimeters that are used for taking radiation readings and measurements are calibrated at an interval recommended by the manufacturer of the equipment, which is typically every twelve months. All the radiological equipment possessed and owned by IDHS is calibrated by the Ohio Emergency Management Agency (OEMA) located at 1296 Kinnear Road, Columbus, Ohio. During calibration, the direct read dosimeters are tested for accuracy as well as operational checks. Currently, no pencil dosimeters, nor CDV-138s are being used as equipment for the REP program, so no testing for electrical leakage was necessary on a quarterly basis." "IDHS and OEMA entered a contract for calibration of the IDHS equipment and this was updated in January 2018. The contract formalizes the relationship between IDHS and OEMA regarding the calibration of the IDHS equipment. With this contract being fully executed, calibration of the equipment will allow each piece of equipment to be

				<p>calibrated on an annual basis regarding the REP Program. Any equipment out of calibration according to manufacturer of the specific radiation survey meter, dosimeter, or equipment, will not be used until properly calibrated. According to the contract signed by Indiana Department of Homeland Security and Ohio Emergency Management Agency (OEMA), those pieces of radiation equipment will be calibrated and returned to IDHS within forty-five days.”</p> <ul style="list-style-type: none"> • “Due to the Pandemic and Ohio physically moving their calibration lab, they have informed IDHS they will not be able to begin calibration operations again until January of 2021. Enclosed is the email from IDHS to FEMA explaining this (Enclosure M).”
e. Dates of inspection/inventory check	X			<p>ALC – Emergency Facilities and Equipment pg. 4:</p> <ul style="list-style-type: none"> • “Inventories were conducted for this specific radiological equipment in March 2020 and June 2020. During these inventories, each piece of equipment was inspected, and an operation check was performed. The operational check included placing batteries in the meter, placing probe on the meter, and checking the equipment with the cesium 137 source. The actual meter reading was compared to those listed on the calibration sheet and meters itself using the cesium 137 source. With the direct-reading dosimeters, batteries were placed in dosimeter and dosimeter was checked for proper operation and cesium 137 check source was placed by dosimeter to see actual reading. The permanent/non-direct reading dosimeters were updated quarterly during the inventory.”
<p>4. A statement that survey instruments utilized for measuring radiation during environmental monitoring and analysis (field teams and radiological laboratories) were calibrated at intervals recommended by supplier of equipment (NUREG-0654/FEMA-REP-1, Evaluation Criterion H.10)</p>				
If calibration occurred, the statement must include:	Y	N	N/A	ALC Reference / Comments
a. Type of equipment	X			<p>ALC Enclosure L – REP Equipment Inventory Radiation Meters:</p> <ul style="list-style-type: none"> • Ludlum 192 • Ludlum 2241-3 • Ludlum 193-6 • Ludlum 2241-2RK • Ludlum 78 • Ludlum 193-6 • Ludlum 3 • Ludlum 4002-227 • Ludlum 177-61 • Ludlum 177-45 • Ludlum 14C • Ludlum 12S • Ludlum 177 • Ludlum 2 <p>In August of 2020 IDHS REP program began the process of upgrading 20 of the Ludlum 2241-2RK to a model 3000 with Blue-Tooth capability.</p>
b. Quantity of equipment	X			<p>ALC Enclosure L – REP Equipment Inventory Radiation Meters:</p> <ul style="list-style-type: none"> • Ludlum 192=6 • Ludlum 2241-3=5 • Ludlum 193-6=3 • Ludlum 2241-2RK=58 • Ludlum 78=1 • Ludlum 193-6=2 • Ludlum 3=50 • Ludlum 4002-227=6 • Ludlum 177-61=1 • Ludlum 177-45=2 • Ludlum 14C=2

				<ul style="list-style-type: none"> • Ludlum 12S=1 • Ludlum 177=2 • Ludlum 2=8 Total 147
c. Location of equipment	X			<u>ALC - Emergency Facilities and Equipment pg. 4:</u> <ul style="list-style-type: none"> • "The enclosed lists note equipment being stored at the Indiana Department of Homeland Security (IDHS) 5 Points logistic facility, located at 7100 East Troy Avenue (5 Points Facility), Indianapolis, IN and assigned to various responders throughout Indiana. The logistics facility is secured with limited access and has a climate-controlled area for the radiation equipment, dosimeters, and rad survey meters."
d. Dates of calibration	X			<u>ALC Enclosure L – REP Equipment Inventory:</u> <ul style="list-style-type: none"> • Dates of calibration for each piece of equipment are provided in the enclosure. <u>ALC – Emergency Facilities and Equipment pg. 4:</u> <ul style="list-style-type: none"> • Due to the Pandemic and Ohio physically moving their calibration lab, they have informed IDHS they will not be able to begin calibration operations again until January of 2021. Enclosed is the email from IDHS to FEMA explaining this (Enclosure M)."
5. A statement that direct-reading dosimetry has been tested for accuracy. All Direct-Reading Dosimeters (DRDs) shall be inspected for electrical leakage at least annually. CDV-138s must be inspected for electrical leakage quarterly. Dosimeters shall be recharged or replaced as necessary. (NUREG-0654/FEMA-REP-1, Evaluation Criterion H.10)				
This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Type of equipment	X			<u>ALC Enclosure L REP Equipment Inventory PRD Dosimeter – DRDs</u> <u>ALC Enclosure REP Equipment Inventory – Rad Watch Dosimeters (PRDs)</u> <ul style="list-style-type: none"> • Polimaster PM1703MO-1 DRD • RAD Watches (PRDs)
b. Quantity of equipment	X			<u>ALC Enclosure L REP Equipment Inventory PRD Dosimeter – DRDs</u> <u>ALC Enclosure REP Equipment Inventory – Rad Watch Dosimeters (PRDs)</u> <ul style="list-style-type: none"> • Polimaster PM1703MO-1 DRD=89 • RAD Watches (PRDs)=29
c. Location of equipment	X			<u>ALC - Emergency Facilities and Equipment pg. 4:</u> <ul style="list-style-type: none"> • "The enclosed lists note equipment being stored at the Indiana Department of Homeland Security (IDHS) 5 Points logistic facility, located at 7100 East Troy Avenue (5 Points Facility), Indianapolis, IN and assigned to various responders throughout Indiana. The logistics facility is secured with limited access and has a climate-controlled area for the radiation equipment, dosimeters, and rad survey meters."
d. Dates of calibration	X			<u>ALC Enclosure L – REP Equipment Inventory:</u> <ul style="list-style-type: none"> • Dates of calibration for each piece of equipment are provided in the enclosure. <u>ALC – Emergency Facilities and Equipment pg. 4:</u> <ul style="list-style-type: none"> • Due to the Pandemic and Ohio physically moving their calibration lab, they have informed IDHS they will not be able to begin calibration operations again until January of 2021. Enclosed is the email from IDHS to FEMA explaining this (Enclosure M)."

6. A statement that sufficient quantities of potassium iodide (KI) are available for emergency workers, institutionalized individuals, and if the plan calls for it, the general public. (NUREG-0654/FEMA- REP-1, Evaluation Criterion J.10.e) If quantities of KI were not verified by FEMA during most recent biennial exercise:				
This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Amounts of KI available			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
b. Storage locations			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
c. Expiration date(s)			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
Alert and Notification				
1. A statement that a routine siren testing program was completed pursuant to the design report. (FEMA- REP-10)				
This statement must include:	Y	N	N/A	ALC Reference / Comments
a. Type of tests conducted in accordance with established schedule			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
b. Dates of tests			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
c. Number of sirens tested operable and inoperable			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
2. Analysis of percentage of operable sirens. (FEMA-REP-10)				
This must be at least 90 percent and include:	Y	N	N/A	ALC Reference / Comments
a. Computation of siren operability (percentage of sirens operable) for the immediately preceding calendar year. This is determined by simple average of all regularly conducted tests employed as part of testing program (e.g., silent, growl, full cycle).			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
b. Description (or calculations) of method used to calculate siren operability percentage.			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
3. A statement (if applicable) that a maintenance program for residential tone alert radios has been properly implemented. (FEMA-REP-10)				
This statement must specify the type and frequency of residential tone alert radio (as part of primary ANS) tests conducted and include assurances that:	Y	N	N/A	ALC Reference / Comments
a. Registers, containing list of addresses where equipment is located, have been updated to reflect additions or changes			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
b. Registers include individuals who have refused this equipment			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
c. Equipment operating checks have been completed or offered to residents with this equipment			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.

d. Tests identifying frequency were conducted offering the public a means to self-test its receivers			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
e. Necessary written guidance was provided that addressed:			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
1. General usage			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
2. Self-testing frequency and method			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
3. Suggested placement to facilitate efficient use			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
4. Maintenance program details			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
5. Telephone numbers for repair or replacement			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
4. A statement specifying type and frequency of routine testing of all applicable alerting systems, other than sirens and tone alert radios. This testing must be performed at least annually. (FEMA-REP-10)				
Alerting methods may include:	Y	N	N/A	ALC Reference / Comments
a. Mobile route alerting and Notification			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
b. Aircraft route alerting and Notification			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
c. Institutional alerting mechanisms in schools, hospitals, nursing homes, etc.			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
d. Automatic telephone dialers/switching equipment			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
e. Modulated power lines			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
f. Type and frequency of residential tone alert radio (as part of primary ANS) tests conducted			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
5. A statement (if applicable) that a maintenance program for alerting systems other than sirens and tone alert radios (e.g., radios in schools/hospitals) has been properly implemented. (FEMA-REP-10)				
This statement must include assurances that:	Y	N	N/A	ALC Reference / Comments
a. Registers, containing list of addresses where equipment is located, have been updated to reflect additions or changes			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
b. Registers include organizations that have refused this equipment or information			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
c. Equipment operating checks have been completed or offered			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
d. Necessary written guidance was provided that addressed:			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
1. General usage			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.

2. Suggested placement to facilitate efficient use			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
3. Maintenance program details			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
4. Telephone numbers for repair or replacement			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
6. A statement (if applicable) for exception areas requiring alert and Notification methods, other than sirens and tone alert radios (e.g., aircraft and/or mobile route alerting and Notification) that routes, alerting methods, and resources remain unchanged. If changes did occur, design report must be updated to reflect modifications.				
This statement must include assurances that:	Y	N	N/A	ALC Reference / Comments
The routes, alerting methods, and resources remain unchanged.			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
7. A statement that siren sound pressure/population density requirements have been met. (FEMA-REP-10)				
This statement must include assurances that:	Y	N	N/A	ALC Reference / Comments
a. In areas where siren sound pressure level is less than 60 dBc, population remains below 2,000 persons per square mile.			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
b. If population has increased to the level of 2000 persons per square mile, siren sound pressure levels must be increased, and design report modified.			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
8. A statement (if applicable) that in areas not covered by sirens, no permanent population has relocated into these areas. In areas of EPZ where no permanent population exists and transients would not frequent, a letter certifying this fact was provided with initial design report. State must certify that this condition remains unchanged; no permanent or transient population has relocated in these areas. If relocation did occur, sirens, tone alert radios, or other means for alerting these individuals would then be required.				
This statement must include assurances that:	Y	N	N/A	ALC Reference / Comments
a. No permanent or transient population has relocated in these areas.			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.
b. If relocation occurred, sirens, tone alert radios, or other means for alerting these individuals have been provided.			X	Indiana has counties in the Ingestion Pathway Zone only; this action is for Emergency Planning Zone counties.