

2020
ANNUAL LETTER OF CERTIFICATION
Generic Section

Iowa Department of Homeland Security and Emergency Management

7900 Hickman Road, Suite 500
Windsor Heights, Iowa 50324



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UPDATE OF PLANS/PROCEDURES AND LETTERS OF AGREEMENT

1. The 2020 State of Iowa Radiological Emergency Response Plan (RERP) was reviewed, updated and sent to FEMA Region VII on January 30, 2020 and was subsequently reviewed by FEMA for REP Program compliance. The 2020 RERP was approved by FEMA on February 13, 2020.

Operational procedures were reviewed for accuracy and completeness of information with appropriate changes being made. Updates to operational procedures for calendar year 2020 were approved by FEMA Region VII on February 13, 2020.

All Letters of Agreement (LOA's) and procedures were reviewed for accuracy and completeness of information, and appropriate changes made during 2020.

PUBLIC EDUCATION AND INFORMATION

1. Reported in the site-specific sections of this Annual Letter of Certification.
2. Reported in the site-specific sections of this Annual Letter of Certification.
3. Reported in the site-specific sections of this Annual Letter of Certification.
4. Emergency public information materials for the ingestion pathway were reviewed in 2020. Additional copies of the "State of Iowa Radiological Emergency Information – For Farmers, Food Processors, and Distributors" brochure were distributed via regional agricultural extension offices upon request, and during training sessions held throughout 2020. A copy of the Ingestion Pathway Brochure is included in Attachment 1.
5. Reported in the site-specific sections of this Annual Letter of Certification.

RADIOLOGICAL EMERGENCY RESPONSE TRAINING

1. The Iowa Department of Homeland Security and Emergency Management scheduled training for the State Emergency Operations Center responders on March 4, 2020. The following is a list of all agencies and the numbers from each who were in attendance:

<u>Agency Represented</u>	<u># Attending</u>
Homeland Security & Emergency Management	19
Transportation	2
Public Safety	2
Public Health	8
Natural Resources	1
Aging	0
Human Services	1
Agriculture and Land Stewardship	3
Commerce	1
ISU Extension Service	2
National Weather Service	2
RACES	2
ICN	1
Utilities	0
Inspections and Appeals	0
American Red Cross	3
Corrections	1
Governor's Office	0
Iowa National Guard	2
Iowa State University	0
State Hygienic Laboratory (SHL)	0
GRAND TOTAL	50

This interactive training session covered the basics as described within the scope and purpose of required training topics as indicated in State of Iowa RERP, Section II, Part O, Attachment II-O-1, Topics 1, 2, and 3.

The Iowa Department of Homeland Security and Emergency Management conducted training for the Iowa State Patrol Communication Dispatchers. This training covered the basics as described within the scope and purpose of required training topics as indicated in State of Iowa RERP, Section II, Part O, Attachment II-O-1, Topics 1, and 2, as well as the roles and responsibilities of the Iowa State Patrol Communication Dispatchers. A training session was held on September 2, 2020, with five individuals in attendance.

Technical Training

The Iowa Department of Homeland Security and Emergency Management sent three individuals to the Building and Maintaining a Resilient Joint Information System for Radiological and Nuclear Incidents on January 22-23, 2020 at Argonne National

Laboratory in Lemont, Illinois. This training addressed new technology and how sites can align to the all hazard approach while being an acceptable alternative approach to meet the FEMA and NRC planning standards.

The Iowa Department of Public Health sent one individual to the Nuclear Regulatory Region IV TOP Workshop in Arlington, Texas on February 4-7, 2020. This workshop focused on coordinating emergency preparedness outreach, planning and training efforts.

Ingestion pathway training was conducted on February 17, 2020 with state agencies to review the roles and responsibilities as identified in the Iowa RERP. A total of nine representatives from the Iowa Department of Homeland Security, Iowa Department of Public Health, Iowa Department of Agriculture and Land Stewardship, Iowa Department of Natural Resources, and the Iowa Department of Inspections and Appeals attended this training.

Emergency Action Level (EAL) Training in support of the Duane Arnold Energy Center was conducted on March 6, 2020. A total of 22 representatives from the Iowa Department of Homeland Security, Iowa Department of Public Health, Iowa State University, and the State Hygienic Laboratory attended this training.

Field Monitoring Team Training was conducted on March 11-12, 2020 at the State Hygienic Laboratory in Coralville, Iowa. This training was a refresher of the standard operating procedures used by the field monitoring/sampling teams during activations for nuclear power plant incidents. This training covered the aspects of sample techniques for field monitoring teams. A “hands-on” mini drill was held as part of this training. The State Hygienic Laboratory sponsored the training. The organizations and numbers attending are:

Homeland Security Emergency Management	2
State Hygienic Laboratory	4
ISU Environmental Health and Safety	5
Utilities	0
Iowa Department of Public Health	5
Iowa Department of Agriculture	2
Iowa DNR	2
FEMA	2
Visiting State’s REP Staff	8
GRAND TOTAL	30

The Iowa Department of Homeland Security and Emergency Management and the Iowa Department of Public Health participated virtually in the Regional Assistance Committee (RAC) meeting on December 16-17, 2020. These meeting were sponsored by FEMA and covered a wide range of current REP issues.

DRILLS

1. Communications drills were conducted as described below.
 - a. Monthly communication drills between the State of Iowa and local offsite response organizations are reported in the site-specific sections of this Annual Letter of Certification.
 - b. Not applicable. Commercial telephone systems are used to communicate with FEMA and are therefore not required to be tested per NUREG Criterion F.3.
 - c. Radiological monitoring drills involving field teams from the SHL, ISU, EHS, the dose assessment group of the Iowa Department of Public Health and the Duane Arnold Energy Center took place on March 4, 2020. This drill demonstrated appropriate communication links and record keeping with regard to the collection, transportation and analyses of water, air, vegetation, and soil samples.
 - d. Communication drills between the State of Iowa, Linn and Benton Counties, Radiological Emergency Teams from the SHL, ISU DEHS, the Radiological Emergency Response Team Coordinator, and the State of Iowa Emergency Operations Center took place on March 4, 2020.
2. A Monitoring drill involving the SHL Field Teams, Radiological Emergency Response Team Coordinator, and the Iowa Department of Public Health The drill took place with the Duane Arnold Energy Center on March 4, 2020 including demonstration of collection and analysis of sample media along with communications and record keeping.
3. A Health Physics drill involving the SHL Field Teams, Radiological Emergency Response Team Coordinator, and the Iowa Department of Public Health Dose Assessment Group. Drill took place with the Duane Arnold Energy Center on March 4, 2020. This drill included response to, and the analyses of, simulated elevated airborne and liquid samples and direct radiation measurements to the environment.

24 HOUR STAFFING

1. The State of Iowa certifies that state government agency response organizations have sufficient and trained staff to maintain a 24-hour capability for a protracted response in support of a radiological event.

EMERGENCY FACILITIES AND EQUIPMENT

1. The State of Iowa certifies that there are no new state facilities, nor state facilities that have had substantial changes in the structure or mission that support the Radiological Emergency Preparedness Program. All state facilities have been evaluated.
2. The State of Iowa certifies that there are no significant changes in the structure or mission of facilities that support the Radiological Emergency Preparedness Program. There are no new emergency response facilities, communications systems or congregate care facilities. No current facilities, communications systems, or congregate care facilities in the radiological emergency response plans/procedures have undergone substantial changes.
- 3.4.5. The following details the inspection, inventory, operational checks, and calibrations for all state radiation detection and monitoring equipment. All state radiation detection and monitoring equipment is calibrated annually and in accordance with manufacturer standards.

The SHL equipment was inventoried and operational checks were performed on a monthly basis in 2020. Inventory consists of 1) taking a physical inventory of contents, 2) taking an inventory of the contents of each locker in each kit, 3) putting batteries in each instrument to verify the battery level, and 4) checking the operation of each instrument with a radioactive check source. A listing of the SHL's instrumentation and calibration dates are as follows:

**Emergency Response Team Calibrated Equipment List
State Hygienic Laboratory at the University of Iowa
2490 Crosspark Road, Iowa City, Iowa**

Location: State Hygienic Laboratory Room 1221B

Equipment	Number	Calibration Date
Ludlum 2241-3 Scalar/Ratemeter	2	03/18/2020
Ludlum 44-38 Energy Compensated GM Detector	2	03/21/2020
Ludlum 44-9 Pancake GM Detector	2	03/21/2020
Ludlum 44-10 2"x2" NaI Gamma Scintillator	2	03/21/2020
HI-Q Air Samplers	2	03/21/2020
Ludlum 25 Personal Radiation Monitors	10	03/18/2020

The Radiochemistry Laboratory at the SHL inventories and operationally checks their instruments daily for routine work in the laboratory. If the instruments are not used daily then weekly or quarterly checks are performed. All checks are documented on log sheets and are part of the ongoing quality control done in the lab. The checks are required for NRC and EPA certification and routine audits are performed by the agencies to ensure they are being done. Instrument checks usually consist of taking backgrounds, voltage checks, running a known check source, and temperatures.

Emergency Response Team Calibrated Equipment List
Iowa State University Environmental Health and Safety at Ames
2408 Wanda Daley Drive, Ames, Iowa

Location: 1122 Environmental Health and Safety Services Building

Equipment	Number	Calibration Date
Ludlum 2241-3	1	02/19/2020
Ludlum 44-38 Energy Compensated GM Detector	1	02/19/2020
Ludlum 44-9 Pancake GM Detector	1	02/19/2020
Ludlum 44-10 2"x2" NaI Gamma Scintillator	1	02/19/2020
HI- Q Air Sampler	1	01/08/2020
Ludlum 25 Personal Radiation Monitors	4	02/19/2020

The ISU Department of Environmental Health and Safety equipment was inventoried and operational checks were performed on a quarterly basis. All instruments are calibrated on an annual basis. Due to each instrument requiring several calibrations for the type of counting and geometry of the specific isotope analyzed for, this list of dates is rather lengthy. These calibrations are required by the NRC and the Iowa Department of Public Health for certification.

The Iowa Department Homeland Security and Emergency Management maintains a stock of 25 CDV-725 at the State Emergency Operations Center. These dosimeters were calibrated on March 13, 2020. Any dosimeter that failed calibration was replaced.

6. The State of Iowa certifies that a sufficient quantity of Potassium Iodide (KI) is available for emergency workers as described in the State of Iowa RERP. The current KI supply has an expiration date of July 2013, however, the State of Iowa contracted with Quality Chemical Laboratories for testing on the current stockpile of KI to certify potency. Testing results, certificate of analysis and a copy of the letter to emergency response organizations for the extension of the current KI supply until July 2023 are included as Attachment 2. Supplies and storage locations were verified during the current year's biennial exercise.

<u>Location</u>	<u>City</u>	<u>County</u>	<u>Quantity</u>
State Hygienic Lab	Oakdale	Johnson	25
SEOC	Johnston	Polk	850
ISU EHS	Ames	Story	25

ALERT AND NOTIFICATION

The State of Iowa has no direct responsibility pursuant to FEMA-REP-10 for the Radiological Emergency Preparedness Program.

**STATE OF IOWA
RADIOLOGICAL EMERGENCY
INFORMATION**

**FOR FARMERS, FOOD PROCESSORS, AND
DISTRIBUTORS**



**IMPORTANT INFORMATION
PLEASE READ AND SAVE THIS BROCHURE**

July 2018

RADIOLOGICAL EMERGENCY INFORMATION

For Iowa Farmers, Food Processors, and Distributors

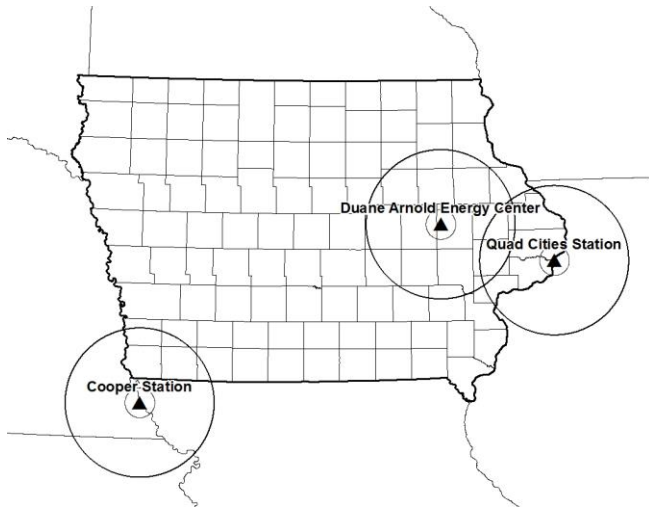
This booklet provides emergency information for farmers, food processors, and food distributors located within 50 miles of Cooper Nuclear Power Station, Duane Arnold Energy Center, or the Quad Cities Generating Station.

This booklet contains information on actions you should take if there were an accident with a release of radiation. The information and emergency response procedures found in this booklet should be followed to protect your family, farm animals, and food products. In case of a radiological accident you will receive instructions from local, state, and federal authorities.

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NUCLEAR POWER PLANTS IMPACTING IOWA



COOPER NUCLEAR POWER STATION INGESTION PATHWAY ZONE

Page County Iowa State University Extension and Outreach
Telephone: (712) 542-5171

Taylor County Iowa State University Extension and Outreach
Telephone: (712) 523-2137

Mills County Iowa State University Extension and Outreach
Telephone: (712) 624-8616

Montgomery County Iowa State University Extension and Outreach
Telephone: (712) 623-2592

Fremont County Iowa State University Extension and Outreach
Telephone (712) 374-2351

Local Emergency Alert System (EAS)
EAS Radio Frequency: KFAB 1110 AM or KFEQ 680 AM

Commercial Nuclear Licensee
Nebraska Public Power District
(402) 825-3811

DUANE ARNOLD ENERGY CENTER EMERGENCY PLANNING ZONE

Linn County Iowa State University Extension and Outreach
Telephone: (319) 377-9839

Benton County Iowa State University Extension and Outreach
Telephone: (319) 472-4739

Linn County Emergency Management Coordinator
Telephone: (319) 892-6500

Benton County Emergency Management Coordinator
Telephone: (319) 472-4519

Local Emergency Alert System (EAS)
EAS Radio Frequency: WMT 600 AM or 96.5 FM

Other
Linn County Sheriff (319) 892-6100
Benton County Sheriff (319) 472-2337

Commercial Nuclear Licensee
NextEra Energy
(319) 851-7612

QUAD CITIES GENERATING STATION EMERGENCY PLANNING ZONE

Scott County Iowa State University Extension and Outreach
Telephone: (563) 359-7577

Clinton County Iowa State University Extension and Outreach
Telephone: (563) 659-5125

Scott County Emergency Management
Telephone: (563) 484-3050

Clinton County Emergency Management
Telephone: (563) 242-5712

Local Emergency Alert System (EAS)
EAS Radio Frequency: WOC 1420 AM or KROS 1340 AM

Other
Scott County Sheriff (563) 326-8625
Clinton County Sheriff (563) 242-9211

Commercial Nuclear Licensee
Exelon Generation
(309) 227-2000

INTRODUCTION

This brochure provides emergency information for the agricultural community within approximately a 50-mile radius of a commercial nuclear power plant. It contains information concerning how you will be notified and what procedures you should follow in the event of a radiological emergency at the power plant.

If the emergency results in a release of radioactive material to the environment, you may be advised to take actions to protect your family, farm animals, and agricultural products. This information, along with specific instructions you will receive over the Emergency Alert System (EAS), NOAA Weather Radio, or through other official news releases, will help you to prevent or minimize the effects of a radiological emergency on food and agriculture.

The instructions in this brochure may also be used in response to other kinds of radiological emergencies. General information on radiation and post emergency activities is provided at the end.

SOURCES OF EMERGENCY INFORMATION

In the event of an emergency at the nuclear power plant near you, specific protective action recommendations will be issued by appropriate state or local government officials. Information to prevent or minimize radiation contamination of food products will be provided to you through at least one of the sources listed below:

- ☐ The Emergency Alert System (EAS) will provide you with emergency information over designated radio and television stations. These stations will also provide additional emergency related information.
- ☐ Your County Extension and Outreach Office may provide you with information on the protection of agricultural products through local radio or television alerts, newspaper articles, or by telephone.
- ☐ Broadcasts over weather band radios will provide you with up-to-date weather information. The broadcasts may also provide you with emergency instructions on protective measures.
- ☐ Additional emergency agricultural information may be available to you through federal, state, or local government emergency organizations.

EMERGENCY PLANNING ZONES

Two types of emergency planning zones (EPZ) may be referred to in an emergency:

The Plume Exposure Pathway EPZ

This is the area generally within a 10-mile radius around a commercial nuclear power plant where emergency planning is required for members of the general public and in place to deal with the potential of direct exposure to radiation.

The Ingestion Exposure Pathway EPZ

This is the area within a 50-mile radius around a commercial nuclear power plant where emergency planning is required and in place to deal with the potential of indirect exposure to radiation due to eating contaminated food or drinking contaminated water, milk, or other liquids.

The safety of the food supply within the 50-mile ingestion exposure pathway EPZ could be a concern to members of the agricultural community if a radiological release to the atmosphere occurred. During such a release, both water and land could become contaminated. Eating contaminated foods and drinking contaminated milk and water could have a harmful, long-term effect on your health.

Federal, state, and local government emergency response organizations will notify and advise the agricultural community on what actions to take in the event of a radiological emergency. The decision to recommend protective actions will be based on the emergency conditions at the power plant, available information on the amount of radiation that may be and/or has been released to the environment, meteorological considerations, etc. There are various protective actions that will help to prevent or lessen the possibility of persons eating or drinking contaminated food or water. These are detailed on the following pages.

EMERGENCY PROTECTIVE ACTIONS YOU CAN TAKE

Emergency protective actions are intended to minimize public and worker exposures, and prevent or minimize the possibility of placing radioactive contaminated products into commerce. The following are examples of protective actions that may be recommended if a release of radioactive materials occurs and contamination of agricultural products is verified by state officials. These actions will be directed by appropriate state and/or local officials throughout the incident.

- ☐ When you go outside, wear clothing that covers all portions of the body, similar to what is worn when applying pesticides.
- ☐ Wear a respirator, protective mask, or place a folded (preferably dampened) cloth over your mouth and nose when working outside to prevent inhalation of radioactive materials.
- ☐ Remove outer clothing before going indoors.
- ☐ Wash hands thoroughly before preparing or eating food.
- ☐ Remove dairy animals from pasture, shelter them if possible, and provide them with protected feed and water.
- ☐ Delay the slaughter of any animals until advised it is safe to do so by appropriate health officials.
- ☐ Do not use fresh milk from dairy animals, fresh garden vegetables, or eggs from within 10 miles of a nuclear power plant until appropriate health officials indicate these are safe to consume.
- ☐ Do not engage in dust-producing activities such as cultivating, disking, bailing, or harvesting.
- ☐ Do not process or distribute agricultural products until they are sampled by appropriate government officials and found to be free of contamination.
- ☐ Do not transport or market food products from the affected area until advised it is safe to do so by appropriate health officials.
- ☐ Restrict fishing to catch and release. Fish and game should not be taken for food until advised it is safe to do so by appropriate health officials.

Specific instructions will depend on the distance of your farm or facility from the nuclear power plant and the existing weather conditions.

PROTECTIVE ACTIONS FOR THE FOOD SUPPLY

The following are examples of preventive and emergency protective actions and related information that may be recommended to the agricultural community by appropriate state or local government officials. Location-specific protective action recommendations will be issued by these officials in the event of an actual emergency.

Milk

Remove all dairy animals from pasture, shelter if possible, and provide protected feed and water. State or local government officials may come to your farm to take milk, feed, and water samples for laboratory analysis to determine if these products are contaminated. If dairy products are found to be contaminated, it may be recommended that milk and milk products be withheld from the market. State and local officials will assist with specific methods to deal with contamination problems.

Fruits and Vegetables

Wash, scrub, peel, or shell locally grown fruits and vegetables, including roots and tubers, to remove surface contamination. If fruits or vegetables are contaminated by short-lived radionuclides they can be preserved by canning, freezing, or dehydration and stored to allow time for decay of the radioactivity.

Meat and Meat Products

If there is a release of radioactive material to the environment, you may be advised to place meat animals on protected feed and water and, if possible, provide them with shelter. If livestock consume feed and water contaminated with radioactive materials, some of the contamination will be absorbed into their bodies and could then enter the human food supply through meat and meat products.

Poultry and Poultry Products

Poultry raised outdoors, especially those kept for egg production, should be monitored by federal, state, or local officials by taking samples and performing laboratory tests to determine the presence of radioactive contamination. Poultry raised indoors and given protected feed and water are not likely to be contaminated. If contamination is verified, state or local government officials may advise that poultry and eggs should not be eaten.

Fish and Aquatic Life

Fish and other aquatics raised in ponds should not be harvested unless appropriate state or local government officials have determined through laboratory analysis of samples that they are safe. Samples of water, fish, and aquatic life from other bodies of water should be analyzed to ensure that they are safe.

Soils

If state or local government officials find that the soil is contaminated, proper soil management procedures can be implemented to reduce contamination to safe levels. "Idling", the nonuse of the land for a specific period of time, may be necessary in some cases. However, in situations involving small spots of highly contaminated soil, removal and disposal of the soil may be more appropriate. State or local government officials will let you know what actions are appropriate.

Grains

If grains are permitted to grow to maturity, most contamination will probably be removed by the wind and rain. Sampling and laboratory analysis will determine if the grain is safe to use. When harvested, contaminated and uncontaminated grains should be stored separately to prevent cross contamination.

Water

Open sources of water should be protected. Cover open rain barrels and tanks to prevent contamination. Covered wells and other covered or underground sources of water will probably not become contaminated. It is unlikely that underground water supplies will be affected. Radiation contaminants deposited on the ground will travel very slowly unless soils are sandy. Filler pipes should be disconnected from storage containers that are supplied by runoff from roofs or other surface drain fields. This will prevent contaminants from entering the storage containers. Close water intake valves from any contaminated water sources to prevent distribution (e.g., irrigation) of contaminated water.

Honey

Honey and beehives will need to be sampled and analyzed by appropriate state or local government officials if radioactive contamination is detected in the area. You will be instructed by these officials on how to handle the hives and honey.

FOOD PROCESSORS AND DISTRIBUTORS

Radioactive contamination of milk or food products in an affected area can occur during processing, or during transportation. This can result from exposure to radioactive materials on the ground or in the air, and from contact with contaminated products.

Following a radiological emergency, government officials may restrict the movement of food products and withhold them from the marketplace if they are found to be contaminated. These products should not be released until they are safe for consumption, or until a decision is made to dispose of them. You will be instructed how to safely handle and dispose of contaminated food products.

POST EMERGENCY ACTIONS

The following sections describe post emergency actions that will occur if contamination is verified.

Reentry

Reentry is the temporary entry, under controlled conditions, into a restricted or contaminated area. These areas will likely be limited to those within a 10-mile radius of the commercial nuclear power plant. If you have been evacuated from your area, you may be allowed to return temporarily to your farm when conditions permit. State or local government officials will advise you through the Emergency Alert System (EAS) or other official means if a decision to permit reentry is made. You must apply through your county emergency management office to enter a restricted area. You will receive specific instructions on routes to use and safety precautions to take. Temporary reentry may be allowed to perform such vital activities as milking, watering, and feeding farm animals.

Recovery

Recovery is the process of reducing radiation in the environment to acceptable levels for normal daily living. Following the emergency, state and local government officials will identify the types and levels of contamination. They may need to take samples of air, water, soil, crops, and animal products from your farm or business. They will provide you with instructions and assist you in decontaminating your animals, food, and property if such actions are necessary. Contaminated food will be isolated to prevent its introduction to the market place. State and local government officials will determine whether condemnation and disposal are appropriate.

GENERAL INFORMATION ON RADIATION

Radiation and some radioactive materials are a natural part of our environment. They are in the air we breathe, in the food we eat, in the soil, in our homes, and even in our bodies. The level of radiation naturally existing in our environment is called "background radiation." It may vary greatly from one location to another depending on related factors such as solar radiation, geographic elevation, soil composition, and the presence of radon gases from the soil and building materials. We are also exposed to sources of manmade radiation such as X-rays and other medical procedures.

The effects of radiation on people depend on the amount and length of time of exposure, how much of the body is exposed, how much radioactive material stays in the body, and the general health and age of the person. The effects of radiation can be decreased by reducing the exposure time and increasing the distance from the source of radiation.

SUMMARY OF EFFECTS OF RADIOACTIVE DEPOSITS ON HUMAN FOOD AND WATER SUPPLIES

Depending on the amount of radioactive materials released into the atmosphere, the duration of the release, and the prevailing weather conditions, people, animals, crops, land, and water near the site of the nuclear power plant could be affected. Of initial concern would be the condition of fresh milk from dairy animals grazing on pasture and drinking from open sources of water. Sampling for contamination could be performed at the farm, the transfer station, or the processing plant. If contamination of fresh milk and processed milk products is verified, state or local government officials will determine whether to dispose of these products or to hold them until safe for consumption.

Another concern would be the possible contamination of vegetables, grains, fruits, and nuts. The severity of the impact of the contamination would depend on the time of the year the emergency occurred. The time immediately prior to or during harvest is the most critical period. Crops will be sampled and analyzed by the appropriate government officials to ensure that they are safe.

An additional concern would be the possible impact of the contamination on livestock and poultry. Pasture, feed, and water sources, as well as meat and poultry products will be sampled and analyzed to ensure that the meat and poultry products are safe to eat.

Contamination of drinking water supplies is not considered to present a significant problem. If it occurs, it will probably affect only surface water supplies and not ground wells or underground water sources. The safety of water would be determined by sampling public and private sources. If land becomes contaminated, proper soil management techniques can be implemented to reduce contamination of crops grown on the land. The procedures recommended would depend on the severity of contamination and the specific crops to be grown.

In conclusion, while a serious radiological emergency is unlikely, it is important to be prepared for such an event. The information in this brochure may help you to more effectively cope with such an emergency.

The point of contact with reference to information contained within this publication is:

Iowa Department of Homeland Security and Emergency Management
7900 Hickman Road, Suite 500
Windsor Heights, Iowa 50324
515-725-3231
<https://www.homelandsecurity.iowa.gov>

Issued by



**Iowa Department of Homeland
Security and Emergency Management**

In partnership with

IOWA STATE UNIVERSITY
Extension and Outreach

A SUMMARY OF RECOMMENDATIONS

While it is unlikely that a serious radiological emergency will occur, it is important to be prepared for such an event. The information in this brochure may help you to effectively respond to such an emergency.

If a radiological emergency occurs in your immediate area, you will be alerted by the sounding of a siren or other appropriate means. You should take the following actions:

- ☐ Turn on your radio or television and tune to a station or channel that carries Emergency Alert System (EAS) information.
- ☐ Follow the recommendations of the state or local officials. You may be advised to take protective actions such as:
 - To Protect Feed and Water - Cover outside feed and open water source supplies with a tarpaulin or other appropriate material.
 - Remove dairy animals from pasture by sheltering them if possible, and providing them with protected feed and water.
 - Protect other livestock and poultry by sheltering them if possible, and providing them with protected feed and water.
 - If you live within 10 miles of a nuclear power plant, you may be advised to take shelter (go inside) or to evacuate. This may help protect you from potentially harmful levels of radiation.

KIM REYNOLDS
GOVERNOR

ADAM GREGG
LT. GOVERNOR

IOWA DEPARTMENT OF HOMELAND SECURITY
AND EMERGENCY MANAGEMENT
V. JOYCE FLINN, ACTING HOMELAND SECURITY
ADVISOR AND EMERGENCY MANAGEMENT DIRECTOR

NOTICE

DATE: June 5, 2018

FROM: Jacob Nicholson, REP Program Manager

SUBJECT: Potassium Iodide Tablets; IOSAT / Lot P03-5, shelf life extension

Based on test results, the expiration date of IOSAT potassium iodide (KI) tablets, marked LOT P03-5, is extended until July 2023. Questions regarding this matter should be directed to Iowa Homeland Security and Emergency Management at 515-725-3231.



**QUAD CITIES GENERATING STATION
2020
ANNUAL LETTER OF CERTIFICATION**

Iowa Department of Homeland Security and Emergency Management

7900 Hickman Road, Suite 500
Windsor Heights, IA 50324



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Attachments

1. Public Information
2. Media Mail Out

UPDATE OF PLANS/PROCEDURES AND LETTERS OF AGREEMENT

1. Clinton and Scott Counties Radiological Emergency Response Plans, Procedures, and all Letters of Agreements (LOA's) were reviewed for accuracy and completeness of information.

PUBLIC EDUCATION AND INFORMATION

1. During 2020, Exelon mailed out a tri-fold postcard to every address in the 10-mile EPZ for the Quad Cities Generating Station (QCGS). The postcard includes a removable reply card for people with functional and transportation needs to complete and mail to Illinois Emergency Management Agency (IEMA). The postcard directs residents, workers and visitors to a public information website (<http://exelonpublic.info>). There is an Exelon phone number on the postcard that the public can call to request a printed brochure to be mailed to them if they do not have access to the internet. The postcards were mailed on July, 6 2020. A copy of the publication/brochure is enclosed as Attachment 1
2. Tri-fold emergency information postcards were disseminated by Exelon Generation personnel via the United State Post Office to locations frequented by transient and visitors within the emergency planning zone at area motel/hotels, schools, industries, healthcare facilities, public libraries, local emergency management offices, local utility offices, and recreational areas on July 6, 2020.
3. Maintenance and updates on emergency public information signs located along rivers, parks, and other recreational areas are performed by Exelon Generation personnel.
 - a. No additional recreational areas or transient areas, nor expansion to any of the existing recreational areas, have been identified within the plume exposure emergency planning zone or along the Mississippi River.
 - b. Exelon Generation is responsible for the installation, inspection and maintenance of the emergency information signs. Exelon Generation staff surveyed the signs on November 4, 2020. All signs were found in good condition.
4. Emergency public information materials for the ingestion pathway can be found in the Generic section to this Annual Letter of Certification.
3. In keeping with prior practice, Exelon Generation provided informational packets to the media, which were mailed by IEMA in November 2020. Information provided to the media includes, but is not limited to, acquainting the media with emergency plans/procedures, information concerning radiation, and points of contact for the release of public information during an emergency. The media mail out distribution list is found in Attachment 2.

RADIOLOGICAL EMERGENCY RESPONSE TRAINING

Due to the COVID -19 Pandemic and the Governor's Public Health Emergency Proclamation, only a few radiological emergency response training sessions were conducted prior to the Iowa Governor's Public Health Proclamation on March 9, 2020. For the remainder of 2020, Clinton and Scott County Emergency Management along with Iowa Department of Homeland Security and Emergency Management officials had restrictions in conducting in person radiological emergency response training. Training that was conducted met the scope and purpose identified in the State of Iowa, Clinton and Scott Radiological Emergency Response Plans, and is sponsored by the Iowa Department of Homeland Security and Emergency Management and Exelon Generation personnel. Training conducted for the State of Iowa response organizations can be found in the generic section to this Annual Letter of Certification.

FORWARD OPERATIONS

The Iowa Department of Homeland Security and Emergency Management was unable to conduct Forward Command Post training for the QCGS due to the COVID-19 pandemic, and the Governor's Public Health Emergency Proclamation.

LOCAL TRAINING

The Iowa Department of Homeland Security and Emergency Management was unable to conduct local training for the QCGS due to the COVID-19 pandemic, and the Governor's Public Health Emergency Proclamation with the exception of River Bend Transit/First Student, which was conducted on February 13, 2020 with 20 participants covering emergency worker and bus driver training topics.

DRILLS

1. Communications Drills

- a. Communication drills were conducted monthly between the State of Iowa and Clinton and Scott Counties on the following dates:

01/13/2020	07/13/2020
02/10/2020	08/03/2020
03/09/2020	09/14/2020
04/06/2020	10/05/2020
05/11/2020	11/09/2020
06/08/2020	12/14/2020

- b. Not applicable. Commercial telephone systems are used to communicate with FEMA and are therefore not required to be tested per NUREG Criterion F.3

- c. Due to the COVID-19 pandemic and the Governor's State Public Health Emergency Proclamation there were no drills or exercises with QCGS to test communications effectiveness with QCGS, States of Iowa and Illinois, Clinton and Scott County EOC's, and the field assessment teams. However, Iowa does certify that communications systems have been consistently operational, with no decrease in effectiveness.
 - d. Dates of communication drills and participating organizations are described above.
2. Radiological monitoring drill detail can be found in the generic section of this Annual Letter of Certification.
 3. Health physics drill detail can be found in the generic section of this Annual Letter of Certification.

24 HOUR STAFFING

The State of Iowa certifies that state and local government agency response organizations have sufficient and trained staff to maintain a 24-hour capability for a protracted response in support of an event at the QCGS. This includes the Clinton and Scott County, and the State of Iowa response organizations.

EMERGENCY FACILITIES AND EQUIPMENT

1. The State of Iowa certifies there are no new facilities, nor facilities that have had substantial changes in the structure or mission that support the QCGS.
2. The State of Iowa certifies that there have been no significant changes in the structure or mission of facilities that support the QCGS.

The State of Iowa certifies there are no new emergency response facilities, communications systems or congregate care facilities. No current facilities or congregate care facilities in the radiological emergency response plans/procedures have undergone substantial changes. Exelon has implemented an enhancement to the notification system used by the QCGS. The Emergency Offsite Notification System (EONS) was implemented on September 8, 2020. EONS provides an audible warning, electronic message and printed message for Utility NARS messages to the initial warning points at the Iowa State Emergency Operations Center, Iowa State Patrol Communications, and Scott and Clinton County Communications Centers.

3. Radiological instrumentation in support of the QCGS was inspected, inventoried, and operationally checked once each calendar year and before each use. All instrumentation is calibrated in accordance with manufacturer standards. Instruments that either failed the operational check or were in need of repair were replaced. Appropriate records of

instrumentation and their locations are maintained by the Iowa Department of Homeland Security and Emergency Management, Radiological Maintenance and Calibration Facility.

The following is a list of the locations, number of survey instruments and dates of calibration:

<u>Location</u>	<u>Instrument</u>	<u>Date Of Calibration</u>
Northeast High School	5 Ludlum 52 Portal Monitors	November 19, 2020
Registration Center	9 MCB2 Survey Meters	January 15, 2020
Goose Lake, IA		
Genesis Hospital	2 MCB2 Survey Meters	February 17, 2020
Davenport, IA		
Genesis Hospital	2 MCB2 Survey Meters	January 15, 2020
DeWitt, IA		
North Scott High School	5 Ludlum 52 Portal Monitors	January 14, 2020
Registration Center	10 MCB2 Survey Meters	January 14, 2020

4. Refer to the generic section of this Annual Letter of Certification for information on survey instruments utilized during environmental monitoring and analysis.
5. Appropriate radiological direct reading dosimetry instrumentation in support of the QCGS were inspected, inventoried and operationally checked once each calendar year. All dosimetry that read in roentgen have an electrical leak test performed once each calendar year. All instrumentation was calibrated in calendar year 2020 in accordance with the manufacturer's standards. Instruments that either failed the operational check or were in need of repair were replaced. Appropriate records of instrumentation and their locations are maintained by the Iowa Department of Homeland Security and Emergency Management, Radiological Maintenance and Calibration Facility. The following is a list of the locations, numbers of dosimeters and calibration/inspection dates by county.

<u>Location</u>	<u>Quantity & Model</u>	<u>Calibration/Inspection</u>
Clinton Co. EMA	25 DCA 862	January 14, 2020
Clinton, IA	600 DCA 622	January 14, 2020
	10 CDV 740	January 14, 2020
	12 Ultra Radiacs	January 15, 2020
Designated for: "Special concerns"	14 DCA 622	January 14, 2020
Designated for:	10 DCA 862	January 14, 2020
Mercy Hospital	10 DCA 622	January 14, 2020

NOTE: All dosimeters in Clinton County are stored at the EMA in Clinton, IA

Quad Cities Generating Station
2020 ALC

Scott Co. EMA	200 DCA 622	February 14, 2020
Davenport, IA	10 CDV 740	February 14, 2020
North Scott H.S.	100 DCA 862	February 14, 2020
Eldridge, IA		
MEDIC Ambulance	10 DCA 622	February 14, 2020
Davenport, IA		
MEDIC Ambulance	10 DCA 622	January 14, 2020
Eldridge, IA		
MEDIC Ambulance	10 DCA 622	January 14, 2020
LeClaire, IA		
Genesis Hospital	10 DCA 622	February 14, 2020
Ambulance Service		
DeWitt, IA		
Genesis Hospital	20 DCA 862	January 14, 2020
DeWitt, IA		
Genesis Hospital	10 DCA 862	January 14, 2020
Davenport, IA		
Forward Command Post	100 CDV 725	February 14, 2020
Stockton, IA	10 CDV 740	February 14, 2020

6. The State of Iowa provides Potassium Iodide (KI) tablets for distribution to state and affected local emergency workers (those workers who may be called upon to work within the Emergency Planning Zone) and institutionalized individuals, during an incident at the QCGS. Potassium Iodide at all locations throughout the State of Iowa are from the same lot number and has the same expiration, dated July 2013. However, the State of Iowa contracted with Quality Chemical Laboratories for testing on the current stockpile of KI to certify potency. For more information on the state's KI supply and extension, please see Attachment 1 – Generic Information for the State of Iowa.

The following is a listing of the locations and numbers of packets of KI available:

<u>Location</u>	<u>City</u>	<u>County</u>	<u>Quantity</u>
Clinton County EOC	Clinton	Clinton	600
Assigned to Mercy Hospital	Clinton	Clinton	20
Assigned to "Special Concerns"	Clinton	Clinton	20
Scott County	Davenport	Scott	300
Medic Ambulance	Davenport	Scott	10

Quad Cities Generating Station
2020 ALC

Medic Ambulance	Eldridge	Scott	10
Medic Ambulance	LeClaire	Scott	10
Genesis Hospital – Ambulance Service	DeWitt	Clinton	10
Quad Cities Forward Command Post	Stockton	Scott	100

Refer to the generic section of this Annual Letter of Certification for information on Potassium Iodide supplies for support of state agencies.

ALERT AND NOTIFICATION

1. In 2020, all elements of the routine siren testing and maintenance program were conducted in accordance with the Quad Cities Off-site Siren Test Plan. On each Monday a growl test is conducted. A silent test is conducted on Tuesday through Friday, excluding the first Tuesday of each month when a full volume test is conducted at 10:00 a.m. The following outlines the operability record for the 42 sirens located in the QCGS EPZ:

Month	Pass/Total	Operable	Month	Pass/Total	Operable
January	881/882	99.90%	July	923/924	99.90%
February	837/840	99.60%	August	872/882	98.90%
March	924/924	100.00%	September	882/882	100.00%
April	924/924	100.00%	October	923/924	99.90%
May	840/840	100.00%	November	797/798	99.90%
June	923/924	99.90%	December	882/882	100.00%

2. Analysis of the percentage of sirens operable (this must be at or above 90%): The annual siren operability percentage for 2020 was 99.83%. Appendix 4 of the FEMA-REP-10 was used to calculate siren operability.
3. QCGS does not maintain a program for residential tone alert radios.
4. Mobile Route alerting is utilized in the Clinton and Scott County portion of the QCGS EPZ and is exercised annually through the QCGS exercise and drill program.
5. QCGS does not maintain tone alert radios.
6. Exception area requirements are not applicable to the QCGS.
7. The State of Iowa certifies that siren sound pressure/population density requirements have been met. Population levels have not increased within the 10 mile EPZ subsequent to the submittal of the approved siren coverage design report. According to the year 2010 census and as compared to the siren strength map, in Clinton County's portions of the EPZ that have above 2,000 persons per square mile the siren sound levels are 70dB or greater.

8. The State of Iowa certifies that no new permanent population exists, nor areas where transients would frequent, that are not covered by sirens to alert the population to an emergency at QCGS.



Emergency Planning for the Quad Cities Area

**Important Safety Information for
Your Community**

2020/2021

Updated 6/17/2020

This brochure provides information on the Quad Cities Generating Station and actions you may be asked to take in the unlikely event of an incident at the station. Please read the entire brochure. Discuss this information with members of your family and then keep the brochure in a convenient place for future use.

What to Do in an Emergency

Monitor and Prepare

Monitor the radio and TV for emergency information and follow emergency instructions. People should prepare for possible evacuation (e.g.; reunite with family members, assemble emergency kits, provide for pet needs, keep off of the road as much as possible).

For Iowa Residents: Receiving weather, imminent emergency and public safety warnings by voicemail, text or email could help save you or your loved one's life.

The sign-up process only takes a few minutes. Just input your preferred contact method, then pick which notifications and communities you would like to receive alerts for. You are also able to register other family members. You can sign up to receive alerts by following the below link(s).

Clinton Co. Emergency Notification System (CCENS)

<http://www.clintoncounty-ia.gov/Page/EMA>

Scott Co. Emergency Notification System (SCENS)

<http://www.scottcountyiowa.com/ema/alert-iowa>



Keep Phone Lines Open

Please do not make unnecessary phone calls. Leaving phone lines open for emergency workers will help everyone involved. If you require assistance, call the emergency phone numbers broadcasted on the radio.

Shelter-in-Place

Go indoors and stay there. Close all doors and windows and shut off any systems that draw in outside air, such as furnaces, fireplaces and air conditioners. Keep listening to the radio for updates. Keep pets inside and shelter farm animals. If traveling in a vehicle, close windows and vents.

If Instructed to Evacuate

In an evacuation, people in affected areas will be asked to go to local reception centers listed within this brochure. After this, they can stay at specified shelters or with friends or relatives outside the evacuation zone.

Please do not try to pick up children or others at schools, hospitals, nursing homes or overnight campgrounds. These facilities will be following their own special emergency plans and you would most likely miss connections. If evacuated, students, hospital patients and nursing home residents will be accompanied to relocation centers where their needs will be addressed. To find out where people are being moved, stay tuned to the radio. School officials may also, if safe to do so, dismiss classes, cancel classes or special school events in order to keep students under the care of their parents or guardians.

Plan for three days away from home, locking up and turning appliances off as you would for a weekend vacation. Pack all necessary items (See “Emergency Supplies”). Evacuate everyone in your home, following directions given on the radio. These routes will have been selected as the safest ways out of the affected area.

Law enforcement agencies will maintain security in evacuated areas and provide traffic control.

Persons should only evacuate when instructed to do so. Shadow evacuation or evacuation of individuals not within the declared evacuation area could impede evacuation traffic flow.

If You Have Livestock

When advised to do so, remove all livestock from pasture, shelter if possible and provide them with stored feed and protected water. If instructed to shelter-in-place and/or evacuation is recommended, efforts to care for livestock should be discontinued in the affected areas and the shelter-in-place and/or evacuation recommendation should be followed.

For additional information and to obtain the Radiological Emergency Information brochure for farmers, food processors, and distributors, contact the Iowa Homeland Security and Emergency Management Department.

NOTE: If time permits and if safe to do so, the public is encouraged to alert neighbors, by means other than the telephone, to ensure they also heard and understand the warning signals. Persons with disabilities or transit- dependent, if safe to do so, should obtain a ride from a relative, friend, or neighbor.

NOTE: For those who require special assistance, including transportation, stay tuned to the radio for the telephone number provided in the radio message. Call the provided number to report your assistance needs. If the line is busy, be patient and keep trying. Arrangements will be made for you.

How to Prepare for an Emergency

You never know when you might have to leave your home on short notice. A nuclear incident is only one possibility. Floods, fires, chemical spills or severe illness could occur at any time. Preparing now will help you respond more quickly in any emergency.

Emergency Kit

Keep an emergency kit – portable radio, flashlight, extra batteries, extra car keys, first aid kit and other items – in a special place that the whole family can easily locate. Include this booklet in your emergency kit with your location marked on the map. Write a list of the items you would want to take if you had to leave home quickly and post the list in a convenient spot. Be sure to keep a supply of all the items on your list. Gather any important documents that you might need in an emergency and keep them together in a safe place that you can access quickly and easily.

Transportation

Maintain your vehicle in good running order and keep the gas tank at least half full at all times.

Pets

Shelter for evacuated pets will be available. You will receive pet sheltering information when you arrive at the reception center for your area.

Emergency Supplies

- ☐ General first aid kit and any special medication
- ☐ Cash, credit, or ATM cards
- ☐ Important documents
- ☐ Change of clothing
- ☐ Personal health products
(toothbrush, eye care, sanitary products, etc.)
- ☐ Baby formula, diapers, car seat, toys
- ☐ Special dietary foods
- ☐ Pet related supplies

Nuclear Power and Public Safety

Emergency Planning for the Quad Cities Area

Special plans have already been developed to protect the public in the event of a nuclear incident in your area. These plans give specific attention to people who – like you – live, work or visit within 10 miles of a nuclear power plant. Procedures are in place to help protect you and other members of the public in the unlikely event of a nuclear emergency. If necessary, area officials would declare an emergency and take measures to ensure public safety.

This brochure addresses procedures for the Quad Cities area. Please read and keep this material for future reference. Although it specifically addresses a potential nuclear incident, much of the information is useful in any major emergency.

Warning Sirens

Communities across the United States may use outdoor warning sirens for many purposes. Sirens are not exclusive to nuclear power facilities. Sirens may be used to warn the public of many hazards, including fires, flooding, and other events that warrant public notifications. If you hear a siren, you should tune to one of the Emergency Alert System (EAS) stations listed in this brochure and other local radio and television broadcasts for official information.

In Illinois and in Scott and Clinton Counties, Iowa, sirens are tested on the first Tuesday of each month at 10:00 a.m.

Emergency Broadcasts

Authorities relay emergency information and instructions to the public over local radio and TV stations, including the radio stations listed in this brochure. In an emergency, these stations are your best source of accurate news.

Shelter-in-place or Evacuation

Officials might recommend that people either take shelter indoors or evacuate an area. It is critically important that you follow the recommended course of action. Staying home when instructed to evacuate or driving around when urged to stay indoors could expose you to unnecessary danger.

Potassium Iodide (KI)

Potassium Iodide (KI) is a nonprescription drug that may prevent the thyroid from absorbing radioactive iodine. KI is one type of protective action that may be recommended during a nuclear incident. KI should only be taken at the direction of the appropriate state and local authorities. Consult your physician if you have concerns about the safety of KI for your child or yourself. KI is effective in blocking the absorption of radioactive iodine only. Since it does not block the absorption of any other radioactive material, evacuation or sheltering in place may be the most effective and preferred protective actions.

Information on the Illinois KI distribution program can be found at www.illinois.gov/ready.

Classification of Accidents

There are four accident classifications used to describe nuclear emergencies. We contact federal, state and local authorities in each of the following situations:

Unusual Event — Events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant or indicate a security threat to facility protection. No releases of radioactive material requiring off-site response or monitoring are expected unless further degradation of a safety system occurs.

Alert — Events are in progress or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant or a security event that involves probable life-threatening risk to site personnel or damage to site equipment because of intentional malicious dedicated efforts of a hostile act. Any releases are expected to be limited to small fractions of the Environmental Protection Agency (EPA) Protective Action Guideline exposure levels.

Site Area Emergency — Events are in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public or security events that result in intentional damage or malicious acts: (1) toward site personnel or equipment that could lead to the likely failure of or; (2) prevents effective access to equipment needed for the protection of the public. Any releases are not expected to result in exposure levels which exceed EPA Protective Action Guideline exposure levels beyond the site boundary.

General Emergency (GE) — Events are in progress or have occurred which involve actual or IMMINENT substantial core degradation or melting with potential for loss of containment integrity or HOSTILE ACTION that results in an actual loss of physical control of the facility. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area.

Emergency Alert System

The **Emergency Alert System** will provide you with official information in cases of tornadoes, floods, nuclear plant accidents or other emergencies. Turn on your radio or TV for official information and instructions.

Emergency Alert Stations

Rock Island County, Illinois
FM 90.3, WVIK

Whiteside County, Illinois
AM 1390, KCLN
FM 94.7, KMCN

In Iowa, citizens can tune to media outlets for more information.



The Nuclear Regulatory Commission requires specific plans for protecting the public within an approximate 10-mile radius of any nuclear power plant. Know your location on the map and mark it. Some primary evacuation routes are listed below. **In an emergency, follow the directions given on the radio, even if different from those shown below.** Broadcasted directions will be based on actual road and weather conditions and wind direction — helping to ensure your safety as you leave the evacuation area.

Evacuation Routes/ Reception Communities

Iowa Reception Centers

Eldridge

North Scott Senior High School, 200 South 1st Street

- 257th Street west to 240th Avenue, south to 240th Street, west to Eldridge
- Bluff Road northwest to 240th Avenue, north to 300th Street, west to Scott Park Road, south to 240th Street, west to Eldridge
- U.S. Highway 67 south to I-80, west to U.S. Highway 61, north to 240th Street, west to Eldridge
- U.S. Highway 30 west to U.S. Highway 61 south to Eldridge

Goose Lake

Northeast Senior High School, 3690 Highway 136

- U.S. Highway 67 north to Iowa 136 west to Goose Lake
- 380th Avenue north to Iowa 136 west to Goose Lake

Clinton County Evacuation Routes

Sub Area 1

This is the area east of U.S. Highway 67, north of the Wapsipinicon River, west of the Mississippi River, and south of the Camanche City Limits. This includes the Mississippi River channel and islands on the Iowa side from the Wapsipinicon to the southern Camanche City limits, and Rock Creek Park. This area also includes all of the city of Folletts.

- Take U.S. Highway 67 north to U.S. Highway 30, west to Highway 61, south to Eldridge

Sub Area 3

This is the area east of 350th Avenue, north of the Wapsipinicon River, west of 400th Avenue and U.S. Highway 67 and south of U.S. Highway 30.

- Take Z-36 (380th Avenue) north to U.S. Highway 30 west to U.S. Highway 61 south to Eldridge.

Evacuation Routes/ Reception Communities

Clinton County Evacuation Routes (Continued)

Sub Area 5

This is the area east of 400th Avenue, west of the Mississippi River and south of U.S. Highway 30. This includes all of the Camanche City limits. This also includes the Mississippi River channel and islands on the Iowa side from the southern Camanche City limits to the Highway 30 bridge.

- Take U.S. Highway 67 north to U.S. Highway 30 west to U.S. Highway 61 south to Eldridge

Sub Area 7

The area east of 300th Avenue, north of the Wapsipinicon River, west of 350th Avenue and south of U.S. Highway 30.

- Take U.S. Highway 30 west to U.S. Highway 61 south to Eldridge

Sub Area 9

This is the area east of 320th Avenue, north of U.S. Highway 30, west of 400th Avenue and south of 210th Street.

- Take County Road Z-35 (380th Avenue) north to IA 136 west to Goose Lake

Sub Area 11

This is the area east of 400th Avenue, north of U.S. Highway 30, west of the Mississippi River, south of 210th Street and including all of the city of Clinton including north of Main Avenue. This includes the Mississippi River channel and islands on the Iowa side from the Highway 30 Bridge to Eagle Point Park.

- Take U.S. Highway 67 north to IA 136 west to Goose Lake or
- U.S. Highway 67 south to IA 136 west to Goose Lake.

Evacuation Routes/ Reception Communities

Scott County Evacuation Routes

Sub Area 2

From 283rd Avenue east to the Mississippi River, and from the north of the Princeton city limits to the Wapsipinicon River. Includes the Princeton State Wildlife Management Area and the Upper Mississippi National Wildlife Refuge.

- Bluff Road west to 240th Avenue north to 300th Street west to Scott Park Road south to 240th Street west to Eldridge
- U.S. Highway 67 south to I-80 west to U.S. Highway 61 north to Eldridge

Sub Area 4

From 240th Avenue east to 283rd Avenue and from Bluff Road north to the Wapsipinicon River. Includes all of the McCausland city limits.

- Bluff Road west to 240th Avenue north to 300th Street west to Scott Park Road south to 240th Street west to Eldridge
- U.S. Highway 67 south to I-80 west to U.S. Highway 61 north to Eldridge

Sub Area 6

From 240th Avenue east to the Mississippi River and from 235th street north to Bluff Road. Includes all of the Princeton city limits.

- Bluff Road west to 240th Avenue north to 300th Street west to Scott Park Road south to 240th Street west to Eldridge
- 257th Street west to 240th Avenue south to 240th Street west to Eldridge
- U.S. Highway 67 south to I-80 west to U.S. Highway 61 north to Eldridge

Sub Area 8

From 200th Avenue east to 240th Avenue and from 250th Street north to the Wapsipinicon River.

- 240th Avenue northwest to 300th Street west to Scott Park Road south to 240th Street west to Eldridge
- 240th Street west to Eldridge

Sub Area 10

From 200th Avenue east to 240th Avenue and from 220th Street north to 250th Street. Includes those residents between the northern city limits of Bettendorf and south of 220th Street.

- 240th Street west to Eldridge

Sub Area 12

From 240th Avenue east to the Mississippi River and from I-80 north to 235th Street. Includes all of the LeClaire city limits.

- U.S. Highway 67 south to I-80 west to U.S. Highway 61 north to Eldridge
- 240th Street west to Eldridge

What You Need to Know About Nuclear Power Plants and Radiation

How Do Nuclear Plants Work?

Power plants create electricity by running steam turbines, which are powered either by fossil fuels – coal, oil, natural gas – or by nuclear power. Nuclear technology produces energy by splitting uranium atoms in a process called fission. Fission generates heat that boils water for the steam that runs the turbines, which produce the electricity that we all use.

In a nuclear power plant, pea-sized uranium pellets are stacked inside long, thin fuel rods, which are grouped in “assemblies” inside a reactor “core.” The core is encased in a very thick steel capsule, and the entire reactor is further protected by an airtight steel and concrete building called a “containment.” This complex structure is designed to help ensure the safe utilization of nuclear power.

How Do We All Benefit from Nuclear Power?

Any fuel used to produce energy also produces waste. By-products of coal-burning include smoke, ashes and slag. Even with the latest technologies, it is impossible to prevent some of this waste from reaching the environment outside the power plant. Nuclear power generation, on the other hand, produces waste primarily in the form of spent fuel, which is not released into the environment. Besides helping to protect the environment, nuclear energy is also highly efficient, producing vastly more energy for its weight than coal or oil. We would have to burn more than 120 gallons of oil or up to a ton of coal to produce the same amount of energy as that found in a single pellet of uranium.

What Are the Real Risks of Nuclear Power?

Sometimes people are concerned a power plant reactor will “blow up,” but this is virtually impossible. The uranium contains only 3 to 4 percent fissionable material, and the fuel is further diluted to slow down the fission process. This low concentration can generate enough heat to boil water — but not enough to explode. In short, there is no way for a power plant reactor to produce a nuclear explosion.

Some people also think they, or the environment, may be accidentally exposed to nuclear radiation by living or being near a nuclear power plant. Although radioactivity can be dangerous, keep in mind a power plant reactor is designed to contain radiation, protecting the rest of the plant and the surrounding community. To ensure the greatest safety, however, any incident at a power plant that presents the slightest potential for a leak will be addressed with the utmost care.

First, special teams would gather detailed radiation readings at the plant and throughout surrounding areas. Depending on a number of factors, including the amount of radiation released and weather conditions that would affect movement of the radioactive “plume,” state officials will recommend a course of action. A significant incident might require people to stay indoors or to evacuate to temporary reception centers. In any event, you will be instructed in a safe course of action to protect yourself and your loved ones.

What Is Radiation?

Radiation is energy in the form of rays or particles. Some atoms – the ones we call radioactive – are unstable. As they go through a natural process called “decay” in which they change into a stable atom, they throw off rays or particles called radiation. Radiation is exactly the same, whether from nature, or medical or industrial activities.

Radiation is measured in millirems. On average, a person receives about 300 millirem of radiation annually from natural sources and another 300 millirem or so from X-rays and other medical procedures. It takes more than 35 times this much — over 20,000 millirem in a single day — to produce identifiable effects in the body. Federal regulations allow workers to receive up to 5,000 millirem of radiation in the course of a year’s work.

Exelon Generation, which operates nuclear power plants in Illinois, works in cooperation with area agencies to inform the public about emergency planning. This brochure addresses procedures for the Quad Cities area. Please read and keep this material for future reference. Although it specifically addresses a potential nuclear incident, much of the information is useful in any emergency.

For More Information on Emergency Planning in Your Area, Please Contact:

Illinois Emergency

Management Agency

2200 S. Dirksen Parkway
Springfield, Illinois 62703
(800) 782-7860
www.illinois.gov/ready

Whiteside County Emergency Services and Disaster Agency

400 North Cherry
Morrison, Illinois 61270
(815) 772-2800
(815) 772-4044 (24-hour number)

Rock Island County Emergency Management Agency

6120 78th Avenue
Milan, Illinois 61264
(309) 799-5166

Iowa Homeland Security & Emergency Management

7900 Hickman Road, Suite 500
Windsor Heights, Iowa 50234
(515) 725-3231
www.homelandsecurity.iowa.gov

Clinton County Emergency Management Agency

Clinton County Law Center
241 Seventh Avenue North
P.O. Box 2957
Clinton, Iowa 52733-2957
(563) 242-5712
www.clintoncounty-IA.gov/EMA

Scott County Emergency Management Agency

1100 East 46th Street
Davenport, Iowa 52807
(563) 484-3050
www.scottcountyiowa.com/ema

www.nrc.gov/about-nrc/radiation.html

www.nei.org

www.ready.gov

www.hps.org/publicinformation/RadTerms

<http://exelonpublic.info>

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DUANE ARNOLD ENERGY CENTER 2020 ANNUAL LETTER OF CERTIFICATION

Iowa Department of Homeland Security and Emergency Management

7900 Hickman Road, Suite 500
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**DUANE ARNOLD ENERGY CENTER
2020
ANNUAL LETTER OF CERTIFICATION
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State of Iowa Annual Letter of Certification - 2020 Duane Arnold Energy Center

UPDATE OF PLANS/PROCEDURES AND LETTERS OF AGREEMENT

1. For information on the 2020 State Radiological Emergency Response Plan (RERP) update, see the state generic section to this Annual Letter of Certification.

The 2020 RERP update for Benton, Buchanan, Johnson, Linn, and Scott Counties was submitted on December 20, 2019 with corresponding letters of agreement included by county with the RERP as appropriate. The 2020 revisions were approved by FEMA on February 13, 2020.

Operational procedures in support of the Duane Arnold Energy Center (DAEC) were reviewed for accuracy and completeness of information, and appropriate changes were made. Procedures were submitted to FEMA for review and approval on December 19, 2019 with subsequent approval received on February 13, 2020. There were no operational procedures revised during calendar year 2020.

PUBLIC EDUCATION AND INFORMATION

1. DAEC distributes information material to the public in a variety of ways. An oversized post card was mailed in January 2020, by zip code, to every household in the EPZ directing residents to the DuaneArnold.com for DAEC emergency information. A copy of the Post Card and the DAEC Emergency Preparedness Information is included as Attachment 1.
2. Emergency information is disseminated to transients in a variety of ways by DAEC, Linn and Benton County Emergency Management Agencies (EMA). Visitor and Guest Brochures are provided to motels, hotels, bed & breakfasts, and parks and recreation areas, such as Pleasant Creek State Park, Seminole Valley Park, Benton City Park, Wildcat Park, Morgan Creek Park and the Cedar Valley Nature Trail. A copy of the current brochure is included as Attachment 2. A listing of all locations and dates of distribution for Visitor and Guest Brochures distributed in 2020 can be found in Attachment 3. The 211 United Way Call Center is a national initiative, which connects people with important community services. The numbers for this call center is advertised in the DAEC Emergency Preparedness Plan post card, repeatedly throughout the emergency plan information found at DuaneArnold.com, and in the Visitor and Guest brochures. The call center maintains an in-depth resource book, and is included in Attachment 4.
3. DAEC is responsible for the updating and maintenance on all signage, to include those signs located within parks, rivers and all other recreational areas within the DAEC EPZ. A signage review of Benton and Linn Counties was conducted during 2020. Deficient signs were promptly repaired or replaced. There are neither new additions nor expansions to any parks or recreational areas in the plume EPZ.

4. For information on emergency public information materials for the ingestion pathway, see the state generic section to this Annual Letter of Certification.
5. As part of its media education and outreach efforts, DAEC provides media with its Media Guide and other emergency plan information. On December 16, 2020 DAEC sent out information to local media outlets to provide the public with information on NextEra Energy-DAEC, and to disseminate written materials on such topics as how nuclear power plants works, impact of radiation exposure, and onsite and offsite emergency planning. The information provided to the media as well as a listing of those contacted are included as Attachment 5.

RADIOLOGICAL EMERGENCY RESPONSE TRAINING

Due to the COVID -19 Pandemic and the Governor's Public Health Emergency Proclamation, only a few radiological emergency response training sessions were conducted prior to the Iowa Governor's Public Health Proclamation on March 9, 2020. For the remainder of 2020, officials from the host and risk emergency management agencies along with Iowa Department of Homeland Security and Emergency Management had restrictions in conducting in-person radiological emergency response training. Training that was conducted met the scope and purpose identified in the State of Iowa, Linn and Benton Radiological Emergency Response Plans, and is sponsored by the Iowa Department of Homeland Security and Emergency Management and NextEra personnel. Training conducted for the State of Iowa response organizations can be found in the generic section to this Annual Letter of Certification.

Forward Command Post training was completed on March 4, 2020 at the Iowa State Patrol Post 11 Headquarters. Below is a listing of attendees for the training:

<u>Agency Represented</u>	<u>Number Attending</u>
Iowa State Patrol	2
Iowa Department of Transportation	1

For information regarding the scope and purpose of this training, please refer to the State of Iowa RERP, Section II, Part O, Attachment O-1, Topics 1, 2, and 3. For information on other training conducted for the State of Iowa, please refer to the state generic section to this Annual Letter of Certification.

NextEra did send out letters offering training pursuant to the training matrices listed in the Benton, Buchanan, Johnson, Linn, Marshall, and Scott County family of plans supporting DAEC emergency planning early in 2020, and prior to the pandemic. Iowa Department of Homeland Security and Emergency Management officials reviewed all documentation and certify that all local agencies and organizations were offered the appropriate training.

A summary of the offsite training conducted in 2020 for DAEC is included as Attachment 6. This summary details the type of training offered and provided, participating agency, training date and number of individuals trained. Most training for counties was sponsored by DAEC

representatives in conjunction with the individual counties. The one exception is Emergency Operations Center (EOC) training. DAEC offers the training to the individual EMA's. They in turn offer the training to organizations represented in their EOC's, with the course being team taught.

Training within Scott County is sponsored by the Scott County Emergency Management Agency, Exelon Generation and in some instances DAEC.

DRILLS

1. Communications Drills

- a. Communications drills are conducted every Saturday between the State of Iowa, Linn County, Benton County and DAEC, exceeding the monthly requirement. The drills were conducted on the following dates, as well as every other Saturday, in 2020:

01/04/2020	04/04/2020	07/04/2020	10/03/2020
02/01/2020	05/02/2020	08/01/2020	11/07/2020
03/07/2020	06/06/2020	09/05/2020	12/06/2020

Commercial telephone numbers are verified during day-to-day operational telephonic contact. For information on other required communications drills, see the state generic section to this Annual Letter of Certification.

- b. Not applicable. Commercial telephone systems are used to communicate with FEMA and are therefore not required to be tested per NUREG Criterion F.3.
 - c. Communications effectiveness check was completed between DAEC, the State of Iowa, Linn County EOC, Benton County EOC, and the Iowa Field Teams on March 4, 2020.
2. For information on radiological monitoring drills, see the state generic section to this Annual Letter of Certification.
 3. For information on health physics drills, see the state generic section to this Annual Letter of Certification.

24-HOUR STAFFING

1. The State of Iowa certifies that state and local government agency response organizations have sufficient and trained staff to maintain a 24-hour capability for a protracted response in support of an event at DAEC. This includes the risk counties of Benton and Linn and the host counties of Buchanan, Johnson, Marshall and Scott.

EMERGENCY FACILITIES AND EQUIPMENT

1. Emergency response facilities, communications systems, and congregate care facilities were reviewed to ensure that any new or changed facilities, systems or congregate care facilities were identified. These are reviewed annually in accordance with the updates for the planning documents in support of DAEC.
2. There were no substantial changes during calendar year 2020 in structure or mission of the existing facilities that support the DAEC. Additionally, there are no new emergency response facilities, communications systems or congregate care facilities that support the DAEC.
3. Radiological instrumentation in support of DAEC is inspected, inventoried and operationally checked once each calendar year and before each use.

All instrumentation was calibrated in calendar year 2020 in accordance with the manufacturer's standards. Instruments that either failed operational checks or were in need of repair were replaced. Appropriate records of instrumentation and instrument locations are maintained by the Radiological Maintenance and Calibration Facility staff at Camp Dodge.

The following is a list of the locations, numbers of survey instruments and latest dates of calibration by county:

<u>Location</u>	<u>Instrument</u>	<u>Date of Calibration</u>
Benton County	6 MRAD-113 7 MCB2	July 15, 2020 July 15, 2020
Buchanan County	10 MRAD-113 10 MCB2	September 30, 2020 September 30, 2020
Johnson County	10 MRAD-113 16 MCB2	March 12, 2020 March 12, 2020
University of Iowa Hospital	3 MRAD-113 2 MCB2	March 12, 2020 March 12, 2020
Linn County	12 MRAD-113 8 MCB2	November 4, 2020 November 4, 2020
Marshall County	10 MRAD-113 10 MCB2	February 28, 2020 February 28, 2020
Scott County	10 MRAD113	February 17, 2020

<u>Location</u>	<u>Instrument</u>	<u>Date of Calibration</u>
Cedar Rapids Area Ambulance	13 MRAD-113 13 MCB2	November 4, 2020 November 4, 2020
Mercy Hospital – Cedar Rapids	4 MRAD-113 2 MCB2	November 4, 2020 November 4, 2020
Linn County Correctional Center	4 MRAD-113 2 MCB2	November 4, 2020 November 4, 2020
Center Point Ambulance Service	5 MRAD-113 3 MCB2	November 4, 2020 November 4, 2020
Hiawatha Ambulance Service	5 MRAD-113 3 MCB2	November 4, 2020 November 4, 2020

<u>Portal Monitor Locations</u>	<u>Monitor #'s</u>	<u>Date of Calibration</u>
Buchanan County	2	September 30, 2020
Benton County	1	July 15, 2020
Johnson County	7	March 12, 2020
Linn County	1	November 4, 2020
Marshall County	4	July 8, 2020
Scott County	5	February 17, 2020

4. For information on the state's field team emergency facilities and equipment listings please see the state generic section to this Annual Letter of Certification.
5. Direct-reading dosimetry in support of DAEC was inspected, inventoried and operationally checked once during the calendar year by the State Radiological Maintenance and Calibration Facility. All instrumentation was calibrated in calendar year 2020 in accordance with the manufacturer's standards. Calibration includes an accuracy check as well as an electrical leakage check. Dosimetry either failing the operational check or were in need of repair were replaced. The Radiological Maintenance and Calibration Facility staff at Camp Dodge maintains appropriate records of instrumentation and instrument locations.

The following is a list of direct-reading dosimetry locations, numbers and calibration dates:

<u>Location</u>	<u>Instrument</u>	<u>Date of Calibration</u>
Benton County	300 DCA 622 10 DCA 862	July 14, 2020 July 14, 2020
Linn County	1200 DCA 622	November 23, 2020

	800 DCA 622	November 23, 2020
	50 CDV-740	November 23, 2020
DAEC FCP	100 CDV-725	November 24, 2020
	10 CDV-740	November 24, 2020
DAEC ICP*	25 AeroTech-725	November 24, 2020
Pleasant Creek State Park	10 DCA 622	July 14, 2020
Scott Co.	25 DCA 862	February 14, 2020

*Equipment staged at the Forward Command Post (FCP)

6. The following is a listing of the locations and numbers of KI packets/blister packs available:

POTASSIUM IODIDE SUPPLIES

<u>Location</u>	<u>City</u>	<u>County</u>	<u>Quantity</u>
Benton County EOC	Vinton	Benton	300
Pleasant Creek State Park	Palo	Linn	10
Linn County EOC	Cedar Rapids	Linn	3100/700*
Forward Command Post	Cedar Rapids	Linn	100
Incident Command Post**	Cedar Rapids	Linn	25

*This number represents additional stock beyond what has been pre-packaged in emergency worker packets by the Radiological Officer for Linn County. For information on potassium iodide supplies for support of state agencies, see the state generic section to this Annual Letter of Certification.

**Staged at the Forward Command Post (FCP)

Sufficient quantities of KI are available for emergency workers and institutionalized individuals. Potassium Iodide at all locations throughout the State of Iowa is from the same lot number and has the same expiration, dated July 2013. However, the State of Iowa contracted with Quality Chemical Laboratories for testing on the current stockpile of KI to certify potency. For more information on the state's KI supply and extension, please see the state generic section to this Annual Letter of Certification.

ALERT AND NOTIFICATION

1. As noted in Revision 4A of the Duane Arnold Energy Center Siren Design Report, dated December 1999 – Section 2.4.5., periodic siren testing and maintenance activities were conducted as specified in calendar year 2020. These tests consist of full system activation and are conducted on the first Wednesday of each month at 0845. All sirens are verified as operable or inoperable on a monthly basis. See Attachment 7, Table 1, for operability record. The following statement provides information specific to sirens and telemetry color-coding:

+Sirens and telemetry color-coding

Sirens reporting back white:	Siren report back operable, however, siren attention is required. This primarily indicates that a driver requires replacement.
Sirens reporting back amber:	Siren did not report back, indicates some type of siren fault. A service technician is immediately dispatched to investigate siren status. Siren is declared inoperable.

2. Analysis of the percentage of sirens operable is provided by way of Attachment 7, Table 2.
3. Not Applicable.
4. The following statements provide specific information pertaining to routine testing of all applicable alerting systems, other than sirens and tone alert radios, in Benton and Linn Counties:

BENTON COUNTY

Alert Iowa, an IPAWS-enabled mass notification and alerting system, is used as the backup to the primary alert and notification system. Mobile Route alerting is also utilized in the Benton County portion of the DAEC EPZ and is exercised annually through the DAEC exercise and drill program.

LINN COUNTY

Alert Iowa, an IPAWS-enabled mass notification and alerting system is used as the backup to the primary alert and notification system. Mobile Route alerting is also utilized in the Linn County portion of the DAEC EPZ and is exercised annually through the DAEC exercise and drill program. Additionally, Linn County EMA provides two-way 800 MHz radios to school district offices, hospitals and public safety entities. All of these radios are tested weekly and maintenance checks are provided on a scheduled basis and upon request, as needed. Finally, the Linn County Indoor Warning system (LCIWS) is installed in facilities indicated in Appendix 1 and 2 of the Linn County RERP.

5. The following statements provide specific information pertaining to the maintenance program of all applicable alerting systems, other than sirens and tone alert radios, in Linn County:

LINN COUNTY

- a. Linn County EMA provides two-way 800 MHz radios to school district offices, hospitals and public safety entities. All of these radios are tested weekly and maintenance checks are provided on a scheduled basis and upon request, as needed. Additionally, the LCIWS is installed in facilities indicated in Appendix 1 and 2 of the Linn County RERP and this list is updated as needed to reflect additions or changes.
- b. To date, no facility has refused these radios or LCIWS receivers.

- c. Equipment operating checks are offered and completed in conjunction with the testing schedule for each device.
- d. A list of instructions and points of contact are provided with each radio system distributed. Information specific to instructions for the LCIWS devices within Linn County is provided along with each receiver. Instructions cover general usage, testing frequency, suggested placement, maintenance instructions and telephone numbers for repair or replacement.

The following statements provide specific information pertaining to the maintenance program for tone alert radios in Benton and Linn Counties:

BENTON COUNTY

- a. Appendix 3, "Inventory: Equipment/Personnel," pages 3 and 4 of the Benton County RERP, lists all current holders, by name and location, of tone alert radios within Benton County's portion of the DAEC EPZ. This list is updated as needed.
- b. Benton County EMA has no record of anyone who was offered a tone alert radio refusing to accept the same.
- c. Equipment operating checks are offered and completed by holders of the radios, should they choose, in conjunction with the county's annual severe weather week and/or during weekly tests. See paragraphs "d." and "e." below.
- d. Annex F – "Emergency Communications" page F-3, paragraph D.2 of the Benton County RERP describes the Indoor Warning System testing schedule. This takes place approximately 0900 hours each Wednesday morning.
- e. During the county's annual severe weather week, all current holders of tone alert radios are mailed a copy of the current instruction sheet for the model they have to remind them of its operation and the local telephone numbers to call should they experience a problem with operation of the radio, or if a radio fails to activate during a weekly system test.

Benton County EMA retains several spare receivers in case any of the system radios fail to respond to a test. Any radio that fails to activate is exchanged by Benton County EMA and is submitted for repair.

The agent for radio repair is: RC Systems
 1657 Falls Ave.
 Waterloo, Iowa 52704
 Phone: (800) 728-2929

LINN COUNTY

- a. A current listing of tone alert radio receivers is maintained at the Emergency Management Office in Cedar Rapids and is addressed within the Linn County RERP. Receivers are installed in public, private and parochial schools, preschool and day care facilities, nursing homes and care facilities, hospitals, and homes, as needed, to support notification for the DAEC. Battery replacement is scheduled for every two years or when needed. A list of locations and dates of the latest battery replacement and other maintenance performed is maintained in a database for maintenance tracking and ease of management.
- b. No facilities in Linn County who were offered a tone alert radio refused it. Private acquisition and use of tone alert radios by Linn County residents is encouraged but is not required. Linn County policy neither requires nor distributes these radios.
- c. Equipment operating and maintenance checks are provided on a scheduled basis and upon request, as needed.
- d. Tone alert receivers are tested weekly. If operational problems are identified during the test, they are handled by phone or in person. Local maintenance is available and used for repairs when necessary. These tone alert radios are not self-test.
- e. Each receiver is labeled with a statement of operation, testing schedule and phone number for repair or replacement.

The agent for radio repair is: Radio Communications
2131 North Towne Lane, N.E.
Cedar Rapids, Iowa 52402
Phone: (319) 393-7150

RACOM
1331 Stamy Road
Hiawatha, IA 52233
Phone: (319) 393-1475

6. Not Applicable.
7. The following statements provide specific information pertaining to siren sound pressure/population density requirements in Benton and Linn Counties:

BENTON COUNTY

According to the year 2010 census and as compared to the siren strength map, in Benton County's portion of the EPZ that has above 2,000 persons per square mile the siren sound levels are 70dB or greater.

LINN COUNTY

Based on the 2010 census data, the residential population in the EPZ is adequately covered by the existing FEMA approved outdoor warning siren coverage and there does not appear to be any permanent or transient population increase that would require additional coverage.

8. The State of Iowa certifies, based on 2010 census data, that no new permanent population exists, nor do areas where transients would frequent, that are not covered either by sirens, tone alert radios or other means to alert the population to an emergency at DAEC.

Important information for neighbors.

Duane Arnold emergency preparedness plan

Our commitment to safety

NextEra Energy Duane Arnold has an outstanding record of safe operations. The facility is designed to withstand earthquakes and other natural events more severe than ever recorded in the region. The plant is elevated 20 feet above the river level, which protects against flooding.

In addition, many layers of security protect the plant. The Nuclear Regulatory Commission, federal and local law enforcement, as well as the Duane Arnold Energy Center's own expert security team, are always on alert to ensure that plant facilities are protected and secure.

As part of our commitment to safety, our outdoor warning sirens are tested regularly. Siren tests are conducted by local emergency management officials on the first Wednesday of each month at about 8:45 a.m. and last two minutes or less.

This document contains important emergency preparedness information for people located within 10 miles of the Duane Arnold Energy Center. It was developed by emergency management officials and provides basic information about what to do in the event of a nuclear emergency. This information is updated annually.

Emergency information

Being prepared is an important part of NextEra Energy Resources' strategy to protect you and your family. State and local officials, together with NextEra Energy Resources, have prepared a detailed emergency plan to protect everyone within 10 miles of the plant. The plan is tested regularly through evaluated exercises and inspections.

In the unlikely event of an emergency at the Duane Arnold Energy Center that requires you to take any action, you would be notified by the outdoor warning sirens and the emergency alert system. Outdoor warning sirens would sound throughout the entire 10-mile emergency planning zone.

- » When you become aware of an emergency, the best course of action is to monitor local radio or television stations for specific instructions. While monitoring the situation, you should be preparing to either evacuate or shelter in place.
- » **If you have questions about how to prepare or what to do, call United Way 2-1-1 or 1-800-244-7431.**
- » Take a moment to check-in with your neighbors to make sure they are aware of the situation. Please avoid using the telephone.
- » The 10-mile emergency planning zone has been divided into subareas. These subareas were established to help local officials provide clear evacuation and/or sheltering information for people in each subarea. If there were an emergency at the Duane Arnold Energy Center, it is unlikely everyone within the 10-mile radius would be affected. The area affected depends upon weather conditions, such as wind speed and direction and the severity of the situation.
- » Officials will broadcast up to the minute information during an emergency on local radio and television stations during all types of emergency events.
- » Hearing a siren or receiving an emergency alert does not necessarily mean you need to evacuate. Upon receiving an alert, go inside and monitor local radio and television stations for more information. The outdoor warning siren system is tested by local emergency management officials on the first Wednesday of every month. It starts at about 8:45 a.m. and tests both the public-address system as well as the steady and wail siren tones.
- » To supplement the warnings provided by the outdoor sirens and the emergency alert system, the public is encouraged to purchase a National Oceanic and Atmospheric Administration tone alert weather radio. These radios can provide valuable warning and information in any emergency.

Alerts and warnings

There are four emergency classifications at nuclear power plants. Each type calls for a certain level of response from plant and government personnel.

- » **An Unusual Event** is a minor incident such as severe weather and is the least serious of the four categories. Because of strict regulations, a number of events must be classified and reported as “unusual events” even though they pose no threat or danger to the public. Unusual Events do not require you to take any action.
- » **An Alert** is a minor incident that affects, or could potentially affect, reactor safety. There is the possibility of a small, limited release of radioactive material. It is rare for an Alert to require you to take any action. If action is needed, the emergency alert system will be used to notify you.
- » **A Site Area Emergency** is a more serious incident such as a leak from the reactor coolant system. Radioactive releases are possible, but will not affect the areas beyond the plant property. If you need to take action, sirens will sound and the emergency alert system will be activated, alerting you to tune to local radio or television stations for official information.
- » **A General Emergency** is the most severe emergency classification. Radioactive releases that could affect areas beyond plant property are possible. A major security event may also result in a general emergency. If you need to take action, sirens will sound, alerting you to tune to local radio or television stations for official information.

Emergency alert system

In the unlikely event of an emergency at the Duane Arnold Energy Center, you will be notified through a variety of methods. The emergency alert system will be activated. The emergency alert system is a group of radio and television stations that broadcast official information during all types of emergencies. The emergency alert system is the direct link between you and the people charged to protect public health and safety. Instructions may be given to you at any hour, day or night, and will include what you can do to protect yourself and your family. Do not worry if you miss the beginning of a broadcast; the information will be repeated.

Radio and television stations

- » 600 AM
- » 96.5 FM
- » NOAA tone alert weather radios
- » Local television stations

Mobile and digital alerts

You can sign up to receive emergency alerts to your phone or email from Alert Iowa. This free service allows you to receive timely information on emergency situations including severe weather, unexpected road closures, missing persons and evacuations.

Websites

Up-to-date information will also be posted on DuaneArnold.com.

Other ways to find out about an emergency

Local fire, police and emergency officials may patrol affected areas to broadcast information with loudspeakers and/or go door-to-door to ensure residents are aware of the situation.

Questions

If you have questions about how to prepare or what to do after listening to an emergency alert broadcast, call United Way 2-1-1 or 1-800-244-7431.

Sheltering in place

Sometimes, sheltering in place is the safest option. Sheltering in place means to remain where you are. If you are outdoors, immediately go into a nearby building.

If you are directed to shelter in place:

- » DO NOT pick up children at schools, preschools, or registered day care centers; emergency plans include special precautions for children in these facilities.
- » Tune to an official emergency alert radio station (600 AM or 96.5 FM), monitor the situation and prepare to follow additional directions from local officials.
- » If you have questions about what to do, call United Way 2-1-1 or 1-800-244-7431.
- » Limit non-emergency phone calls. If you must use a mobile device, texting is preferred. This will help keep phone lines open.

If indoors:

- » Remain there until further notice.
- » Shut all windows and doors.
- » Turn off all ventilation (furnaces, fireplaces and air conditioners).
- » Cover open food containers.

If outdoors:

- » Go indoors immediately and follow the “if indoors” instructions.
- » Wash hands and face before eating and handling food.
- » Take a lukewarm shower, if possible.

If you are in your car, at work, or away from home:

- » Close car windows, vents, and shut off heating and cooling systems.
- » Turn your radio on to monitor the situation and follow directions.
- » If you are not home and your home is in an area being told to shelter in place, DO NOT try to go home. Leave the affected subarea(s) or enter a nearby building.
- » Stay where you are, monitor the situation and await further instructions.

Evacuation information

Evacuation is a protective recommendation for your safety. Please evacuate promptly once the recommendation is made. If you do not live in the area being evacuated, keep off roads so the people who most need to evacuate can.

If you are directed to evacuate:

- » Evacuation may last for a few days. Plan for up to a three-day absence. Secure your home. Lock doors and windows.
- » If you have questions about how to prepare or what to do, call United Way 2-1-1 or 1-800-244-7431.
- » Pack necessities, including medical items, personal items, bedding, extra clothing, identification, important papers and baby supplies.
- » If directed by authorities, pick up relatives in nursing homes or hospitals.
- » Residents with children in schools in an affected subarea will be able to pick up children at designated temporary relocation centers.
- » Make arrangements for your pets to be housed outside of the emergency planning zone. Public reception centers do not have places for pets. All service animals will be received.
- » Drive safely. Use recommended evacuation routes.
- » Stay tuned to radio 600 AM or 96.5 FM for current information.
- » Keep windows and vents closed when driving in subareas that are being evacuated.
- » Law enforcement agencies will provide traffic control and will maintain security in evacuated areas.
- » Follow directions provided by local authorities to reach your designated reception center.
- » State and local officials will determine when it is safe for you and your family to return. You will be informed by an emergency alert message or relocation center manager.

Emergency reception center information

- » Reception centers are opened to monitor evacuees for radiological contamination. After checking in at the reception center, short-term housing and food is available.
- » Please go to the reception center for monitoring and registration even if you and your family do not need housing.

Transportation

- » If possible, use your own vehicle and head to your designated reception center.
- » If you need transportation assistance and you are in an area served by a Cedar Rapids bus line, go to the nearest bus stop and wait for the next bus. Free transportation to a reception center will be provided.
- » If you live in Linn County, but are not in an area served by a Cedar Rapids bus line, call the Linn County Emergency Management Agency at 319-892-6500 for help.
- » If you live in Benton County, call the Benton County Emergency Management Agency at 319-472-4519 for help.

Farm information

Farmers, food processors, and distributors in Linn and Benton counties are provided a brochure with specific safety and response information. The brochure includes information about actions needed to protect the food chain if there is an emergency at the Duane Arnold Energy Center. Farmers may need to put livestock in buildings. Farmers may also need to provide livestock with feed stored in sheds or silos and water from covered tanks.

In an emergency, information is provided to those who are affected.

Copies of the brochure, "State of Iowa Radiological Emergency Information for Farmers, Food Processors and Food Distributors," are available from your county extension service. In Linn County call (319) 377-9839. In Benton County call (319) 472-4739.

Siren testing schedule

Outdoor warning sirens are tested the first Wednesday of each month at about 8:45 a.m.

- » Do not call 9-1-1 if a siren sounds.
- » Hearing a siren or receiving an emergency alert does not necessarily mean evacuation is required.
- » Siren tests are conducted by local officials on the first Wednesday of each month at about 8:45 a.m.
- » If you hear a siren outside of the normal testing schedule, go inside and check the emergency alert system radio and/or television stations for more information. If the emergency alert system is not broadcasting a message, please call your county emergency management agency:
 - Linn County Emergency Management Agency at (319) 892-6500 or after-hours at (319) 398-3511.
 - Benton County Emergency Management Agency at (319) 472-4519 or after-hours at (319) 472-2337.

Health conditions and special populations

If you, or members of your household, need assistance in an evacuation due to a physical, medical, or other functional or access needs, please register with your local emergency management agency. This will help the agency to plan for your transportation and sheltering needs. All information is kept confidential. There are several ways to register:

- » Call United Way 2-1-1 by dialing 2-1-1 or 1-800-244-7431. Trained staff will register you over the telephone.
- » Contact your local emergency management agency office and request a registration form.
- » Register online at linncounty-ema.org.
- » Talk with your local health and human service provider. They can help you register.

What if I am not registered and they call for an evacuation?

If you have not registered and need special transportation or shelter assistance during an evacuation, contact your local emergency management agency:

- » Linn County call (319) 892-6500.
- » Benton County call (319) 472-4519.

What if I am hearing impaired?

If you are hearing impaired, you can receive emergency information on your Telephone Device for the Deaf (TDD) by calling the following numbers:

- » Linn County Emergency Management Agency at (319) 892-6586.
- » Linn County Sheriff at (319) 398-4016.
- » Benton County Sheriff at (319) 472-2337.

What if I am in the hospital or a nursing home?

If there is an emergency at the Duane Arnold Energy Center, hospitals and nursing homes may be asked to shelter or evacuate patients. Depending on medical conditions, patients may be released to friends or relatives or relocated to facilities outside of the emergency planning zone. Patients unable to be evacuated will be sheltered at their care facility. Information about hospital and nursing home patients will be issued through the emergency alert system.

What about prisoners?

Plans are in place to protect imprisoned individuals. These plans will be executed by state and county officials.

Understanding nuclear energy and radiation

Benefits of NextEra Energy Duane Arnold:

- » Produces no greenhouse gases or emissions.
- » Produces clean, reliable and affordable electricity.
- » Provides hundreds of high-quality jobs for local residents.
- » Is a leader in environmental stewardship in the region.
- » Is an economic engine for the entire state.

Understanding nuclear energy

Nuclear power plants create steam to turn the blades of a turbine to generate electricity. Nuclear plants use uranium fuel in a process called nuclear fission. The fission reaction generates heat to create steam.

The uranium fuel inside the reactor is radioactive. It is securely contained and constantly monitored. The fuel is encased in ceramic pellets which are stacked end-to-end inside long metal tubes. The tubes are assembled into fuel bundles that are immersed in water in the reactor core. The core is housed inside a nine-inch thick steel vessel. That vessel is inside a robust containment building made of steel-reinforced concrete.

Exposure to large amounts of radiation can be harmful to human health. However, given the nuclear industry's strong commitment to safety, such exposures are extremely rare and unlikely.

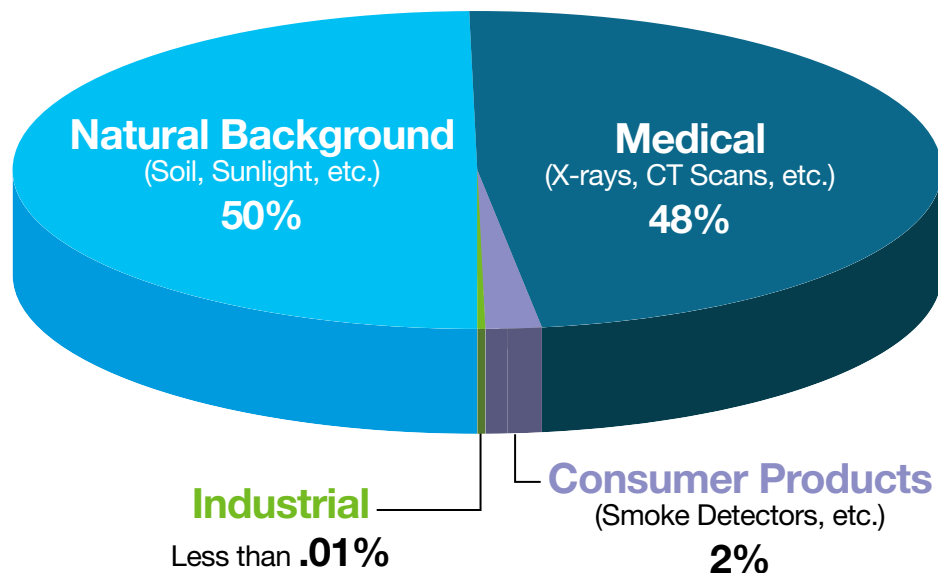
Many monitoring devices placed in and around the Duane Arnold Energy Center can detect very small amounts of radiation. Plant operators are alerted if radiation amounts increase above the naturally occurring background levels. The operators then quickly notify state and county officials.

What is radiation?

Radiation is energy that is given off as a particle or wave. Radioactive elements are present naturally in small amounts throughout our environment. In the United States, natural sources, such as radon products, account for most of the radiation we are exposed to each year. Radiation also comes from medical tests such as X-rays, CT scans, and nuclear medicine studies. Normal everyday items such as smoke detectors also emit small amounts of radiation. Less than one percent of the radiation to which people are exposed comes from nuclear power plants.

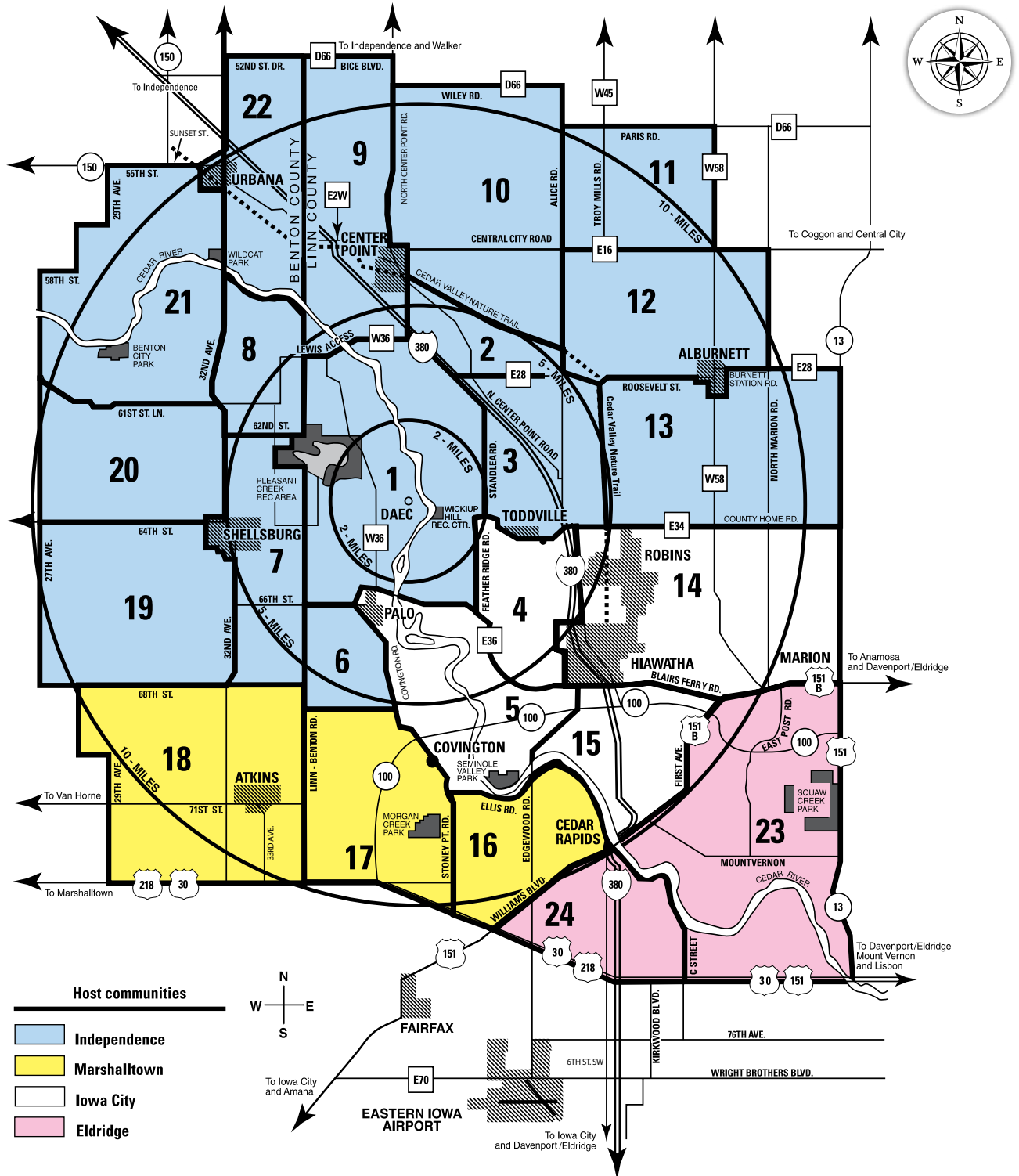
If you have any questions or concerns about radiation, contact the Iowa Department of Public Health at (515) 281-3478.

Source: National Council on Radiation Protection and Measurements Report 160 (2009)



Emergency planning map

To save time and avoid confusion during an emergency, there are a few pieces of information that will help you and your family be prepared. Complete the emergency planning checklist at the end of this document to help your family prepare.



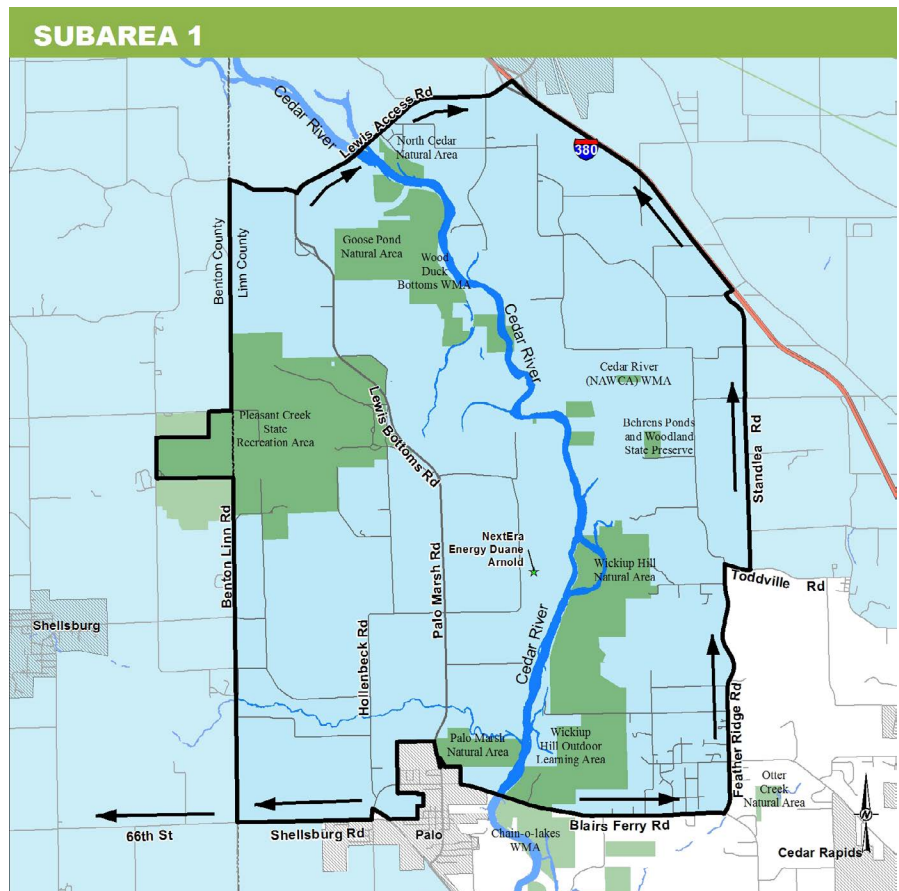
Subarea 1

Subarea 1 includes NextEra Energy Duane Arnold and part of rural Linn County.

- » Northern Boundary: Lewis Access Road and Interstate 380
- » Eastern Boundary: Standlee Road and Feather Ridge Road
- » Southern Boundary: Blairs Ferry Road and Shellsburg Road excluding the corporate limits of the City of Palo
- » Western Boundary: Linn-Benton Road and the Linn-Benton county line including all of Pleasant Creek Park to Lewis Access Road

The following recreation areas are included in subarea 1:

- » Wikiup Hill Natural Area
- » Wikiup Hill Outdoor Learning Center
- » Palo Marsh Natural Area
- » North Cedar Natural Area
- » Pleasant Creek Recreation Area
- » Goose Pond Natural Area



Evacuation route:

- » If you are east of the Cedar River: Take Interstate 380 north to Highway 150, turn north on Highway 150 to Independence.
- » If you are west of the Cedar River: Head west on 66th Street to 32nd Avenue, turn north on 32nd Avenue, then turn north on highway 150 to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence, IA 50644

Need help getting out?

Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

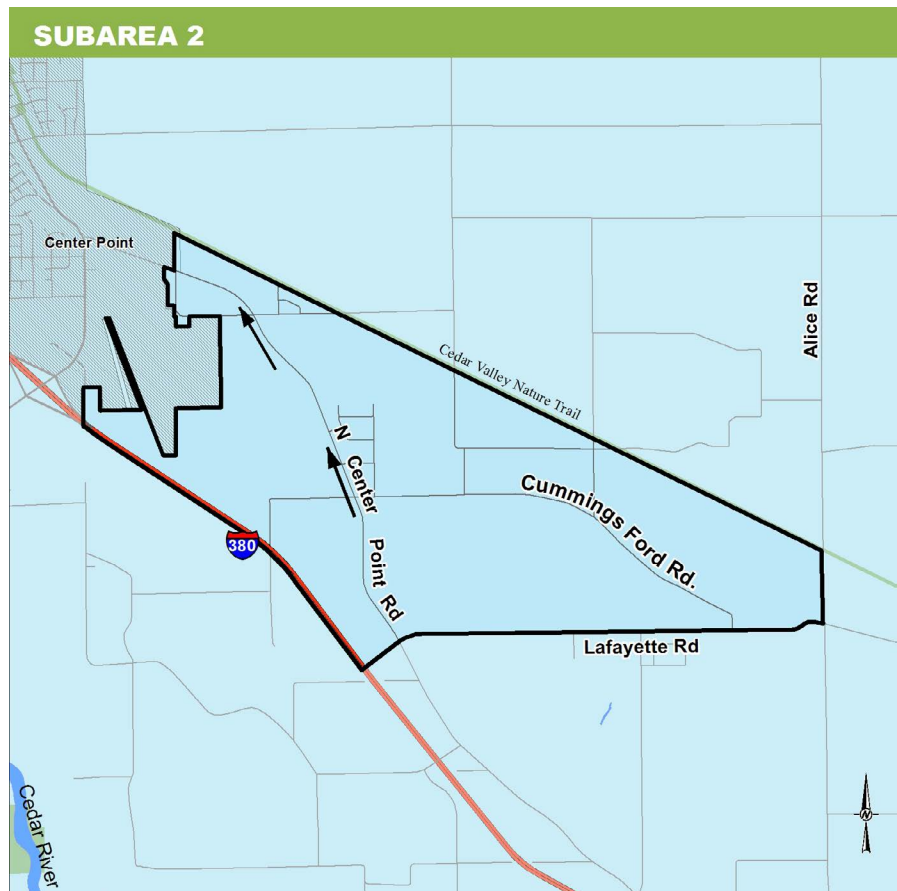
Subarea 2

Subarea 2 includes a section of rural Linn County.

- » Northern Boundary: Cedar Valley Nature Trail
- » Eastern Boundary: Alice Road
- » Southern Boundary: LaFayette Road and Interstate 380
- » Western Boundary: Lewis Access Road

The following recreation areas are included in subarea 2:

- » Cedar Valley Nature Trail



Evacuation route:

- » Take North Center Point Road north to Spencers Grove Road, turn west on Spencers Grove Road to Highway 150, head north to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

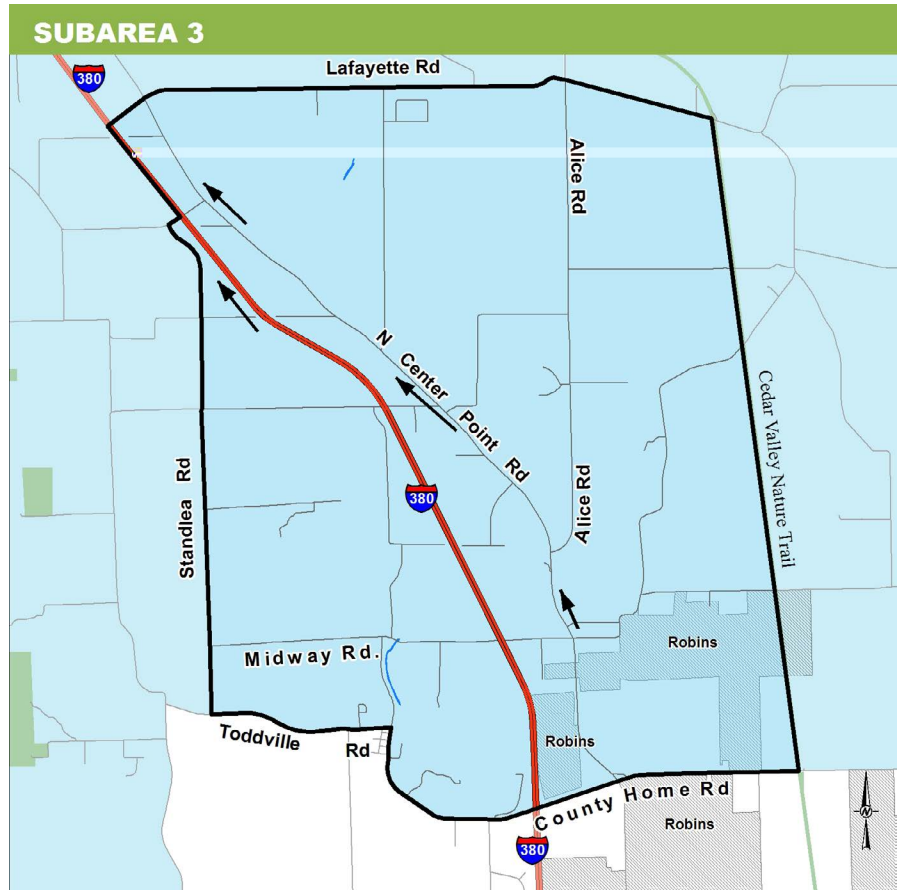
Subarea 3

Subarea 3 includes Toddville and a section of rural Linn County.

- » Northern Boundary: LaFayette Road
- » Eastern Boundary: Cedar Valley Nature Trail
- » Southern Boundary: County Home Road and Toddville Road
- » Western Boundary: Standlea Road and Interstate 380

The following recreation areas are included in subarea 3:

- » Cedar Valley Nature Trail



Evacuation route:

- » Take North Center Point Road north to Spencers Grove Road, turn west on Spencers Grove Road to Highway 150, head north to Independence.
- » Take Interstate 380 north to Highway 150, head north to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

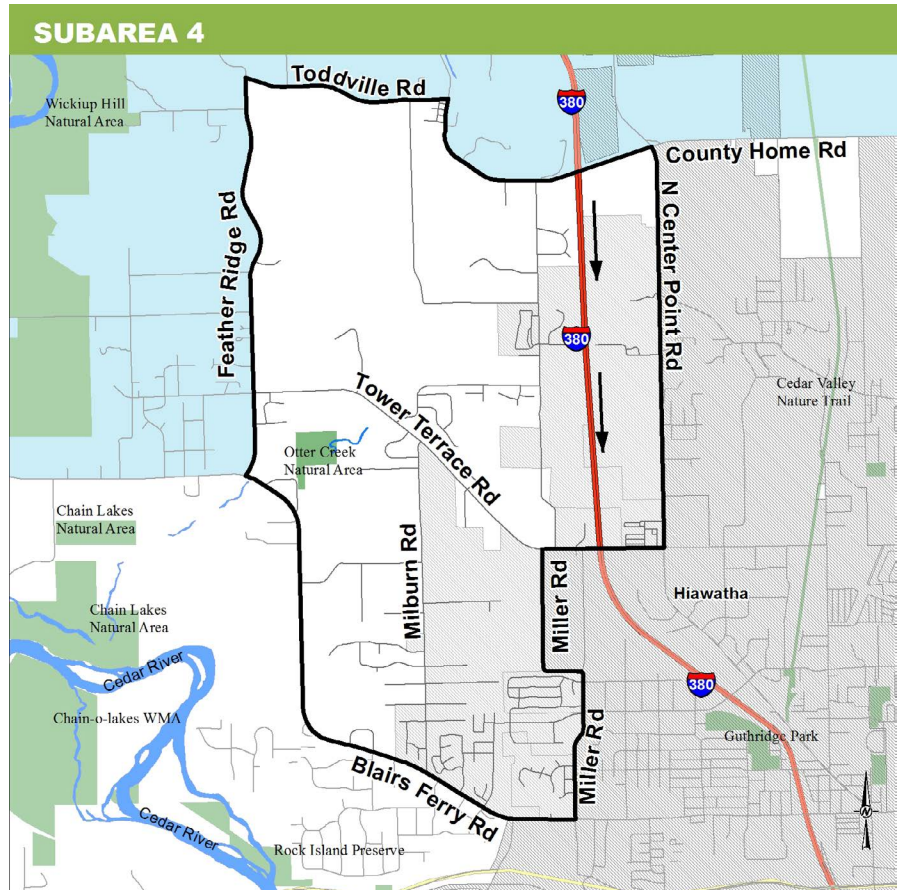
Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

Subarea 4

Subarea 4 includes a portion of northeast Cedar Rapids.

- » Northern Boundary: Toddville Road
- » Eastern Boundary: North Center Point Road, Tower Terrace Road, and Miller Road
- » Southern Boundary: Blairs Ferry Road
- » Western Boundary: Feather Ridge Road



Evacuation route:

- » Take Interstate 380 south to Highway 218 to Iowa City.

Reception center:

Johnson County Fairgrounds
3109 Old Highway 218 South
Iowa City IA 52246

Need help getting out?

Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

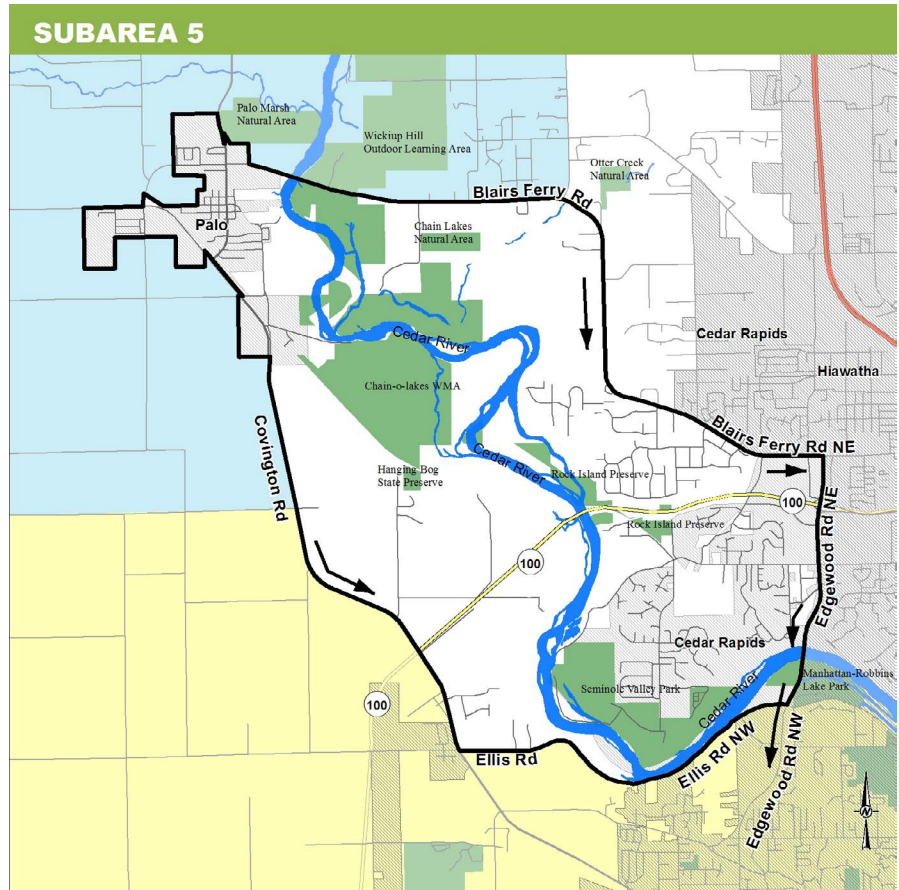
Subarea 5

Subarea 5 includes a section of northeast and northwest Cedar Rapids, Palo, Covington and rural Linn County.

- » Northern Boundary: Blairs Ferry Road including the City of Palo
- » Eastern Boundary: Edgewood Road
- » Southern Boundary: Ellis Road
- » Western Boundary: Covington Road including the City of Palo

The following recreation areas are included in subarea 5:

- » Chain Lakes Natural Area
- » Rock Island Preserve
- » Seminole Valley Park



Evacuation route:

- » Take Covington Road (F Avenue) east and head south on Edgewood Road. Take Highway 30/218 east to Interstate 380. Head south on Interstate 380 to Highway 218, proceed south to Iowa City.

Reception center:

Johnson County Fairgrounds
3109 Old Highway 218 South
Iowa City IA 52246

Need help getting out?

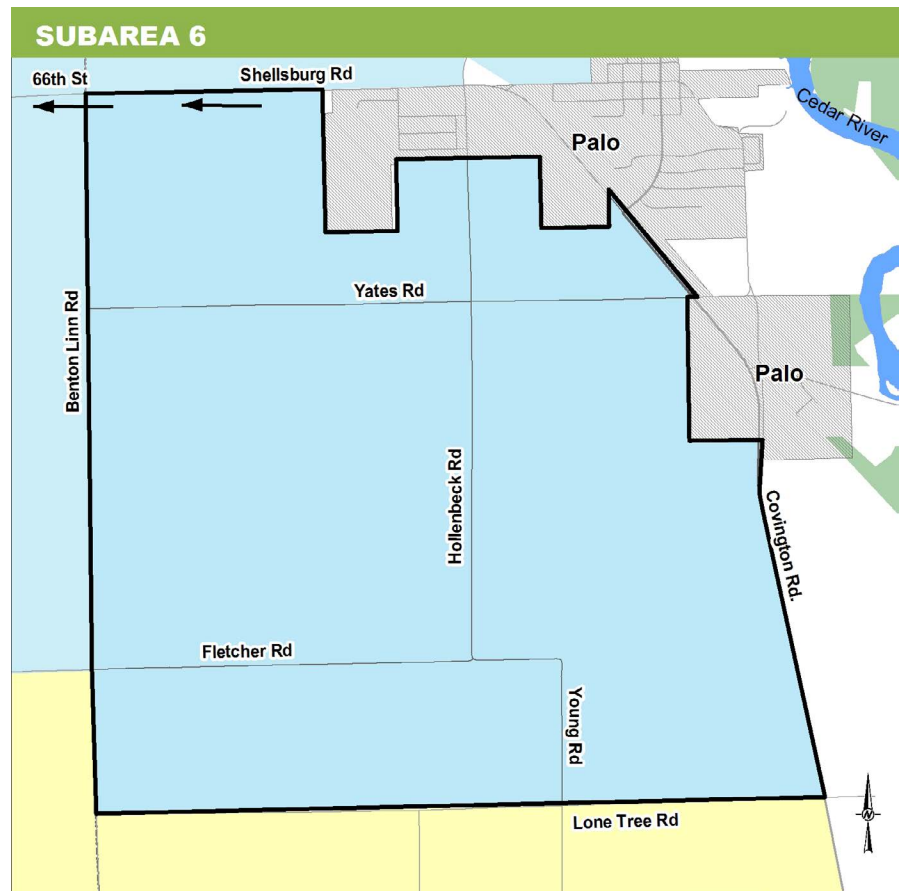
Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

Subarea 6

Subarea 6 includes a section of rural Linn County.

- » Northern Boundary: Shellsburg Road excluding the City of Palo
- » Eastern Boundary: Covington Road
- » Southern Boundary: Lone Tree Road
- » Western Boundary: Linn-Benton Road



Evacuation route:

- » Subarea 6 evacuation route: Take Shellsburg Road/66th Street west to 32nd Avenue. Head north to Highway 150, continue north to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

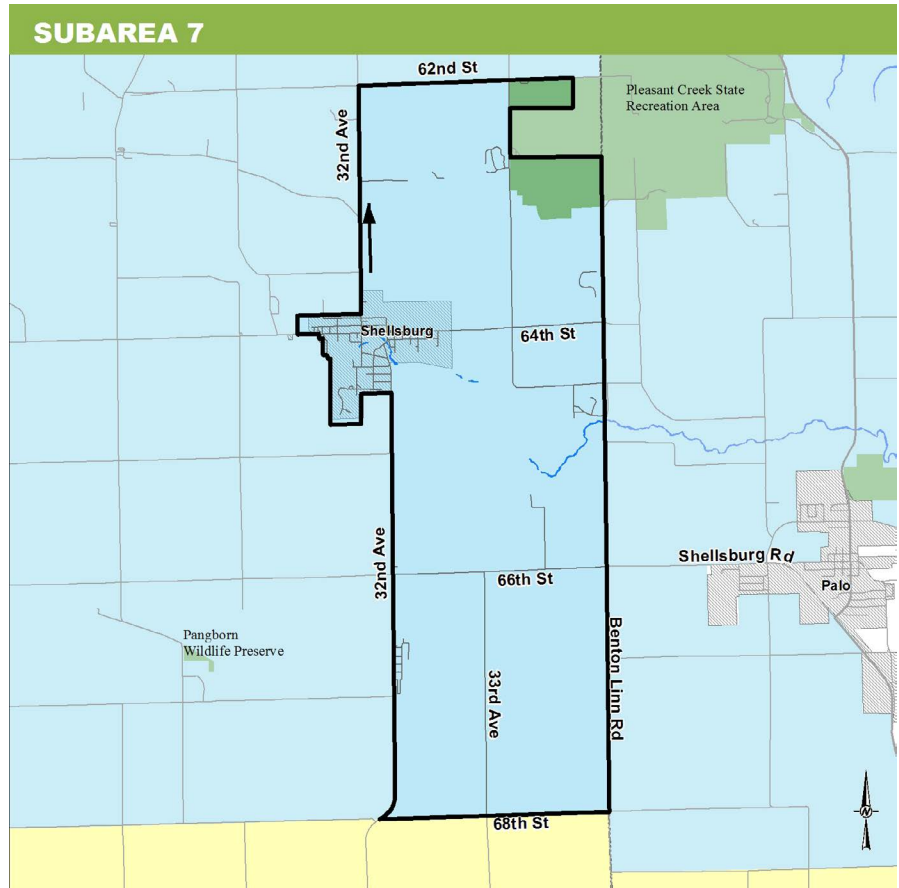
Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

Subarea 7

Subarea 7 includes Shellsburg and a section of rural Benton County.

- » Northern Boundary: 62nd Street
- » Eastern Boundary: Linn-Benton Road
- » Southern Boundary: 68th Street
- » Western Boundary: 32nd Avenue including the City of Shellsburg



Evacuation route:

- » Head north on 32nd Avenue to Highway 150; Take Highway 150 north to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

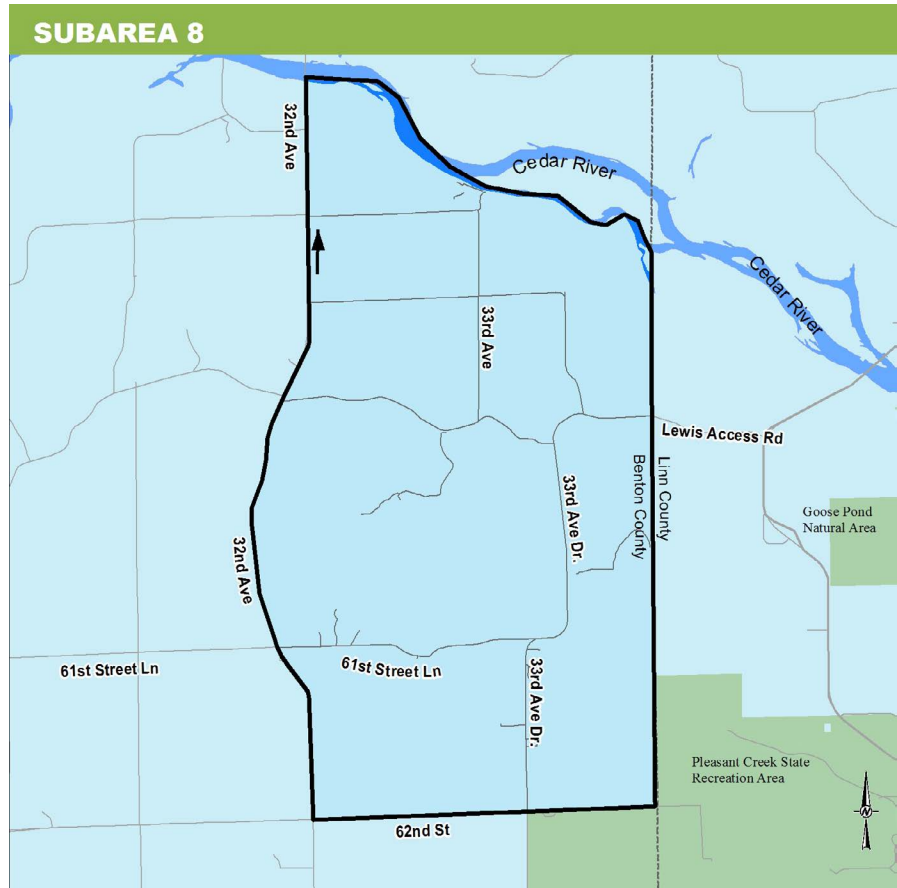
Benton County

If you need a ride in an
emergency, call the Benton
County Emergency Management
Agency at **319-472-4519**.

Subarea 8

Subarea 8 includes a section of rural Benton County.

- » Northern Boundary: Cedar River
- » Eastern Boundary: Linn-Benton County Line
- » Southern Boundary: 62nd Street
- » Western Boundary: 32nd Avenue



Evacuation route:

- » Head north on 32nd Avenue to Highway 150; Take Highway 150 north to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

Benton County

If you need a ride in an emergency, call the Benton County Emergency Management Agency at **319-472-4519**.

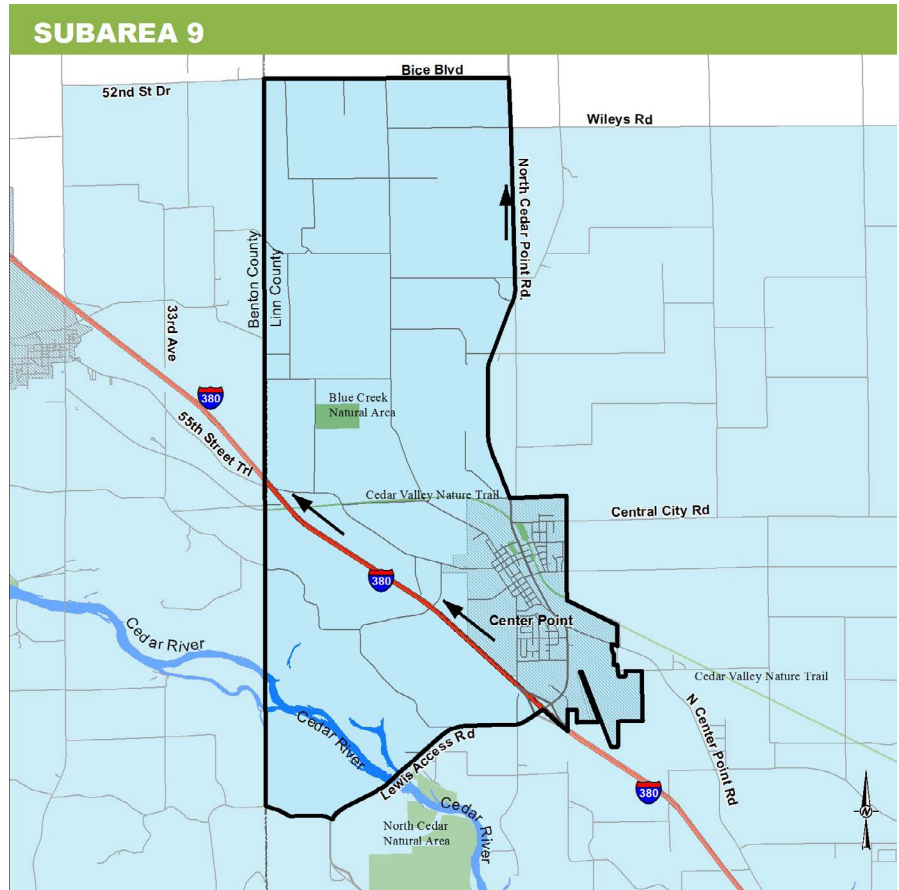
Subarea 9

Subarea 9 includes Center Point and a section of rural Linn County.

- » Northern Boundary: Bice Boulevard
- » Eastern Boundary: North Center Point Road including all of Center Point
- » Southern Boundary: Lewis Access Road
- » Western Boundary: Linn-Benton County Line

The following recreation areas are included in subarea 9:

- » Wakema Park
- » Cedar Valley Nature Trail
- » Blue Creek Natural Area



Evacuation route:

- » Take North Center Point Road north to Spencers Grove Road, turn west on Spencers Grove Road to Highway 150, head north to Independence.
- » Take Interstate 380 north to Highway 150, head north to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

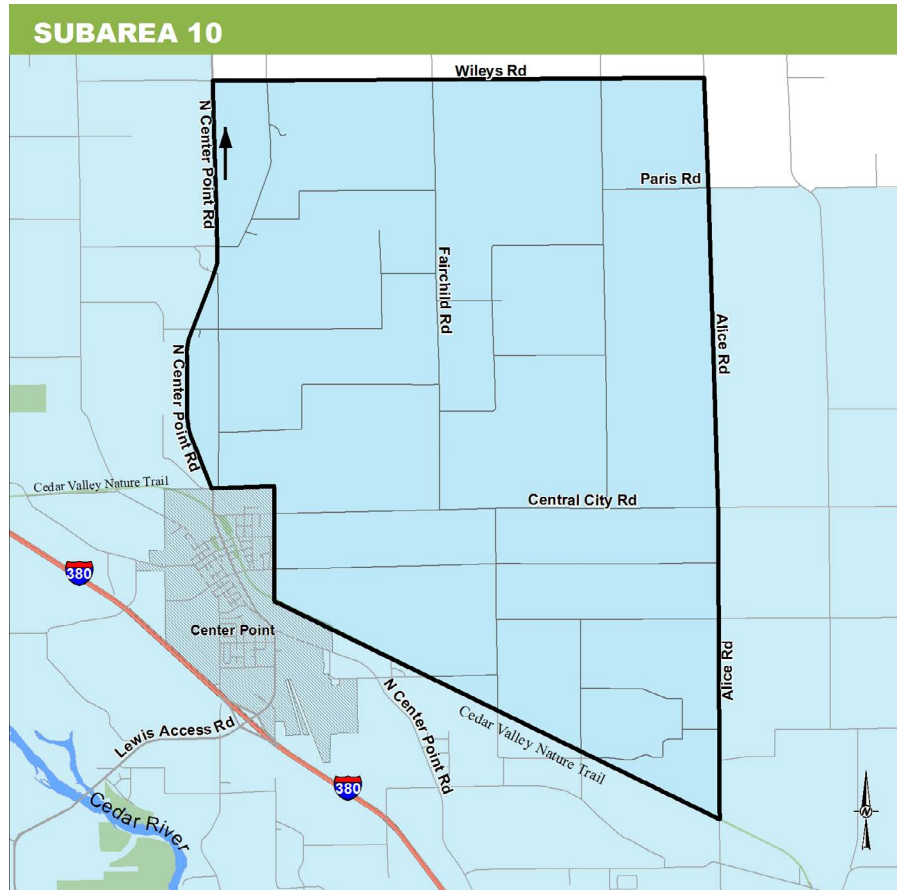
Subarea 10

Subarea 10 includes a section of rural Linn County.

- » Northern Boundary: Wileys Road
- » Eastern Boundary: Alice Road
- » Southern Boundary: Cedar Valley Nature Trail excluding all of the City of Center Point
- » Western Boundary: North Center Point Road

The following recreation areas are included in subarea 10:

- » Cedar Valley Nature Trail



Evacuation route:

- » Take North Center Point Road north to Spencers Grove Road, turn west on Spencers Grove Road to Highway 150, head north to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

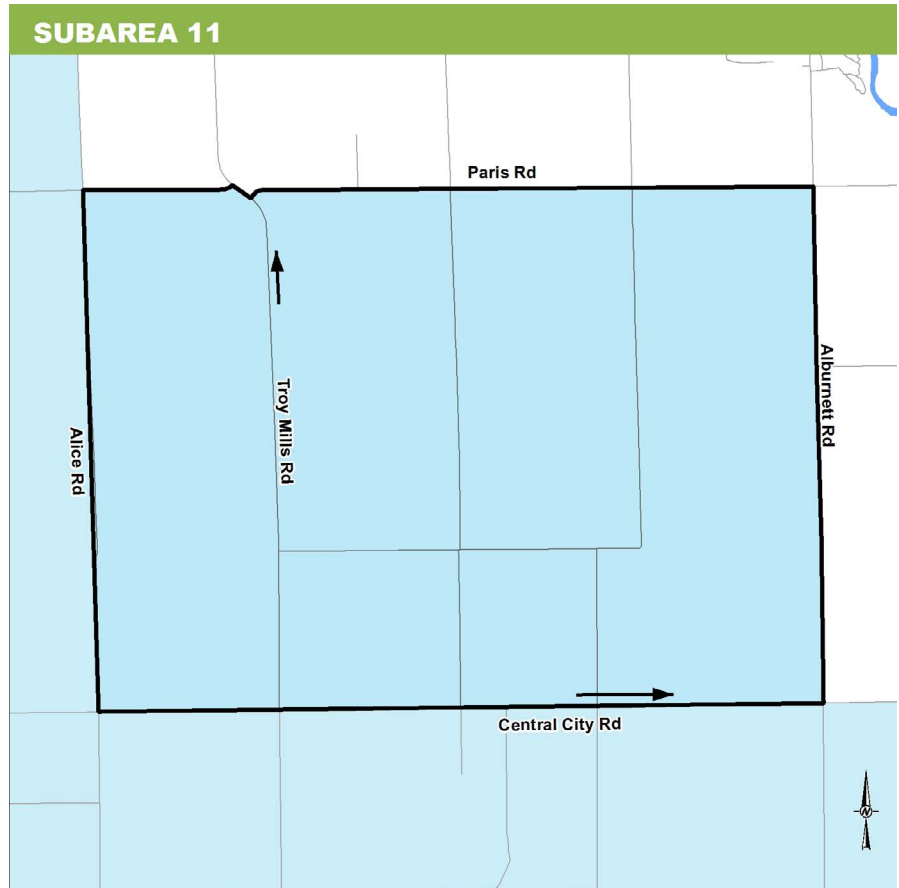
Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

Subarea 11

Subarea 11 includes a section of rural Linn County.

- » Northern Boundary: Paris Road
- » Eastern Boundary: Alburnett Road
- » Southern Boundary: Central City Road
- » Western Boundary: Alice Road



Evacuation route:

- » Take Central City Road east to Highway 13; head north on Highway 13, then take Highway 20 west to Independence.
- » Take Troy Mills Road north to Walker Road and head west; take Quasqueton Road north to Racine Avenue; head north on Racine Avenue, then take Highway 20 west to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

Subarea 12

Subarea 12 includes Alburnett and a section of rural Linn County.

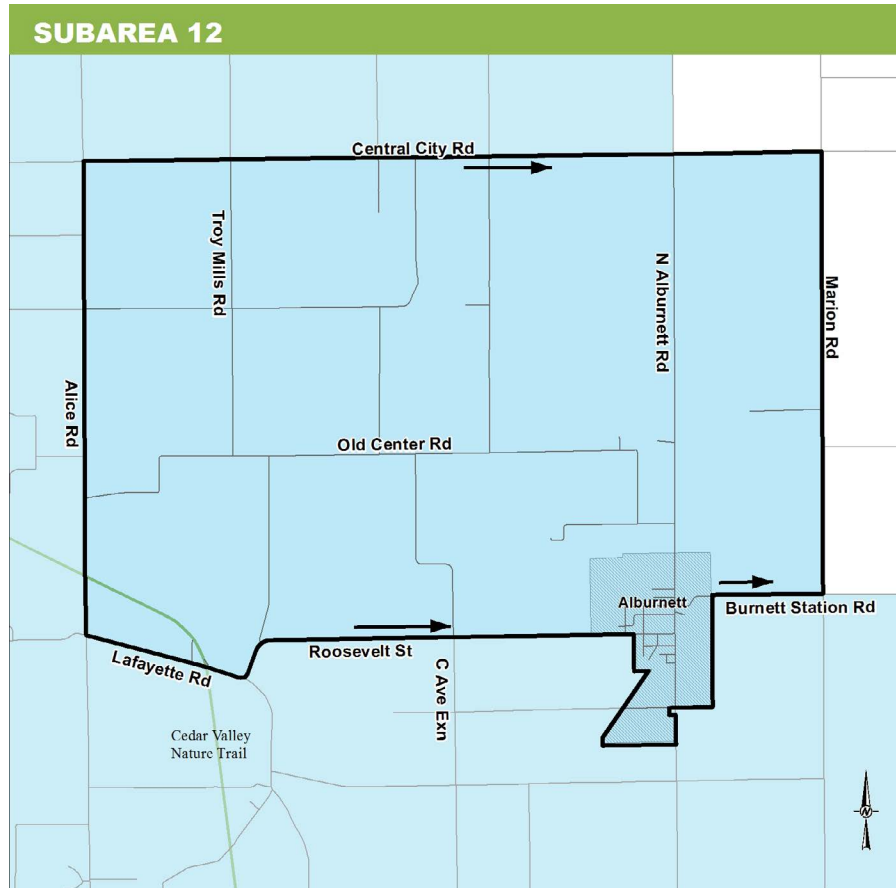
- » Northern Boundary: Central City Road
- » Eastern Boundary: North Marion Road

Southern Boundary: Burnett Station Road, Roosevelt Street and LaFayette Road including all of the City of Alburnett

Western Boundary: Alice Road

The following recreation areas are included in subarea 12:

- » Cedar Valley Nature Trail



Evacuation route:

- » Take Central City Road east to Highway 13; head north on Highway 13, then take Highway 20 west to Independence.
- » Take Roosevelt Street/Burnett Station Road east to Highway 13; head north on Highway 13, then take Highway 20 west to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

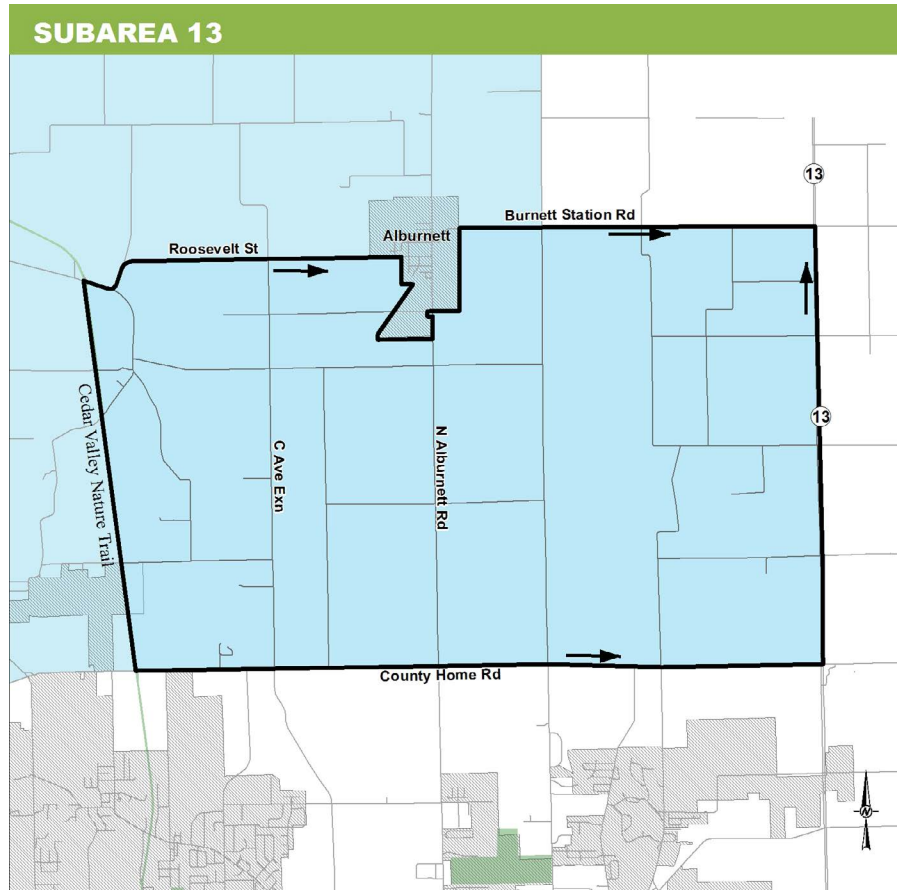
Subarea 13

Subarea 13 includes a section of rural Linn County.

- » Northern Boundary: Lafayette Road, Roosevelt Street and Burnett Station Road including residences on both sides of Burnett Station Road, excluding the City of Alburnett
- » Eastern Boundary: Highway 13
- » Southern Boundary: County Home Road
- » Western Boundary: Cedar Valley Nature Trail

The following recreation areas are included in subarea 13:

- » Cedar Valley Nature Trail



Evacuation route:

- » Take Roosevelt Street/Burnett Station Road east to Highway 13; head north on Highway 13, then take Highway 20 west to Independence.
- » Take County Home Road east to Highway 13; head north on Highway 13, then take Highway 20 west to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

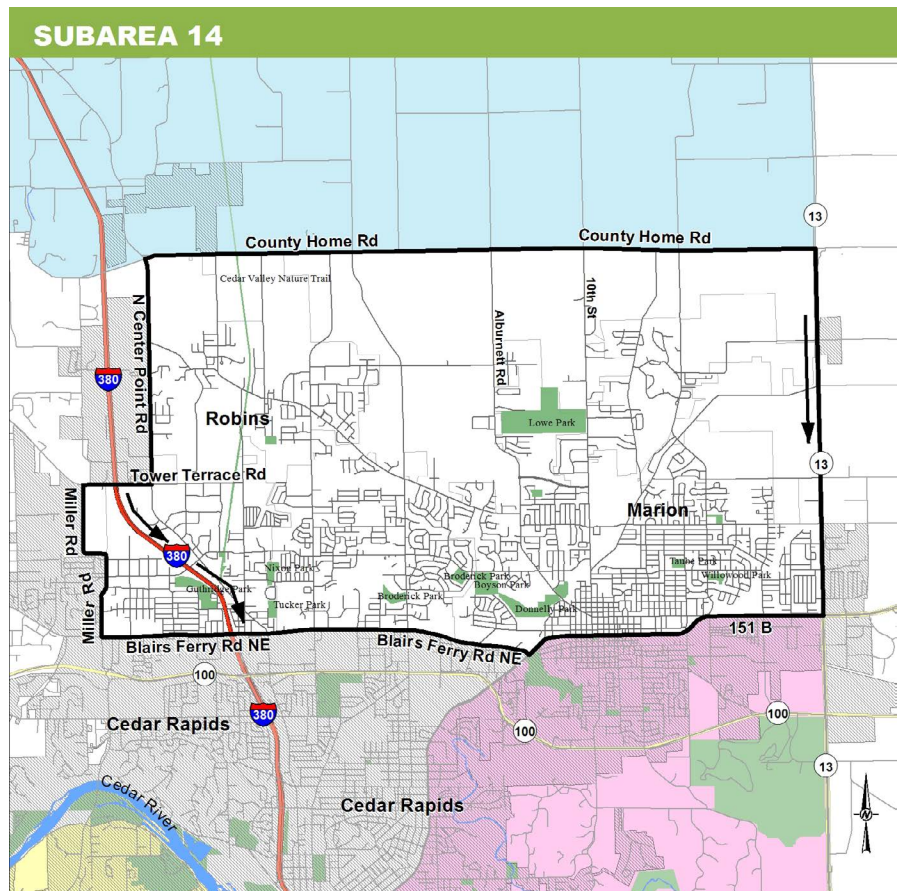
Subarea 14

Subarea 14 includes a portion of Marion north of Highway 151B, Hiawatha, Robins, and a portion of northeast Cedar Rapids.

- » Northern Boundary: County Home Road
- » Eastern Boundary: Highway 13
- » Southern Boundary: Highway 151B and Blairs Ferry Road
- » Western Boundary: Miller Road, Tower Terrace Road, and North Center Point Road

The following recreation areas are included in subarea 14:

- » Cedar Valley Nature Trail



Evacuation route:

- » Take Highway 151B (1st Avenue) west to Interstate 380; head south on Interstate 380 to Highway 218; continue south on Highway 218 to Iowa City.
- » Take Highway 151/13 south to Highway 30/151; Head west on Highway 30/151 then take Interstate 380 south to Highway 218; continue south on Highway 218 to Iowa City.

Reception center:

Johnson County Fairgrounds
3109 Old Highway 218 South
Iowa City IA 52246

Need help getting out?

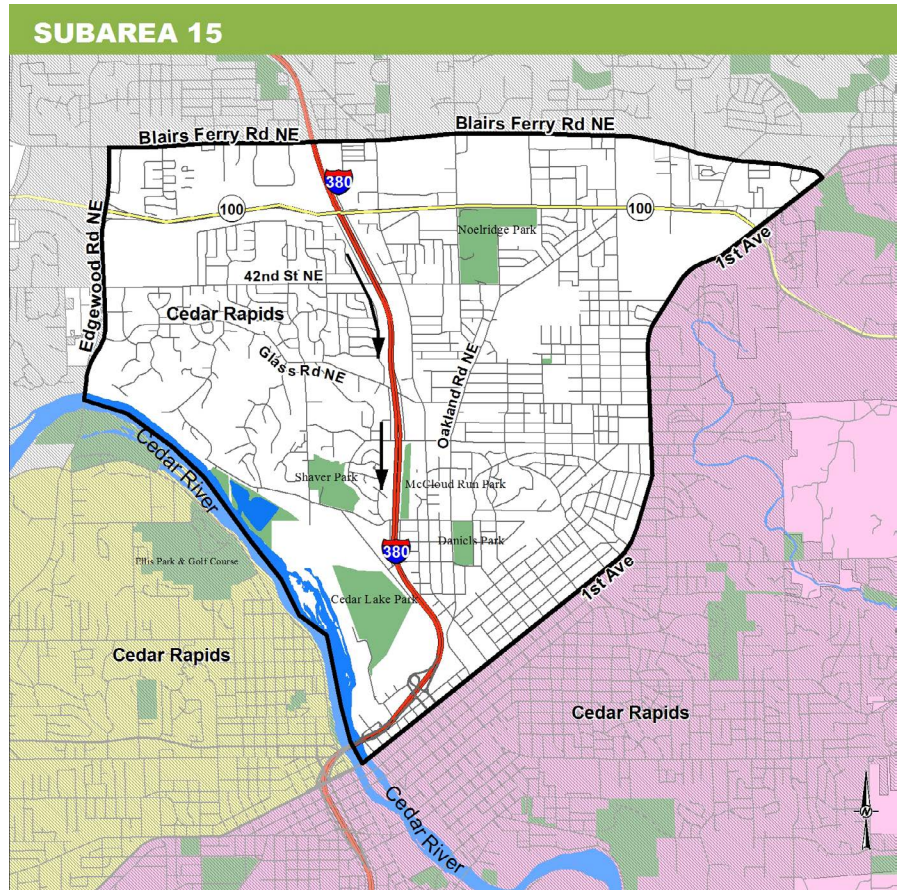
Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

Subarea 15

Subarea 15 includes a portion of northeast Cedar Rapids.

- » Northern Boundary: Blairs Ferry Road
- » Eastern Boundary: Highway 151B/1st Avenue
- » Southern Boundary: Highway 151B/1st Avenue and the Cedar River
- » Western Boundary: Edgewood Road



Evacuation route:

- » Take Interstate 380 south to Highway 218; continue south on Highway 218 to Iowa City.

Reception center:

Johnson County Fairgrounds
3109 Old Highway 218 South
Iowa City IA 52246

Need help getting out?

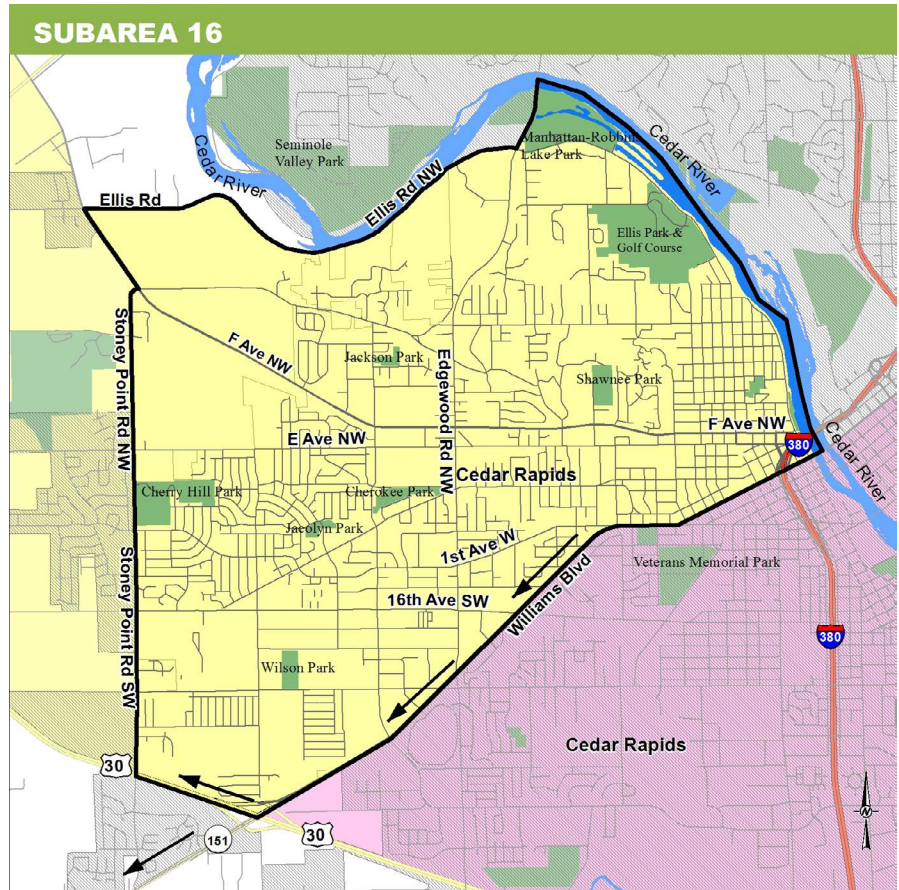
Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

Subarea 16

Subarea 16 includes a portion of northwest Cedar Rapids.

- » Northern Boundary: Ellis Road and the Cedar River
- » Eastern Boundary: Cedar River
- » Southern Boundary: Highway 151B and Highway 30/218
- » Western Boundary: Stony Point Road and Covington Road



Evacuation route:

- » Take Highway 30/218 west to Marshalltown.
- » Take Highway 151 south to Interstate 80; take Interstate 80 west then head north on Highway 14 to Marshalltown.

Reception center:

Central Iowa Fairgrounds,
Marshall County
1308 East Olive Street
Marshalltown IA 50158

Need help getting out?

Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

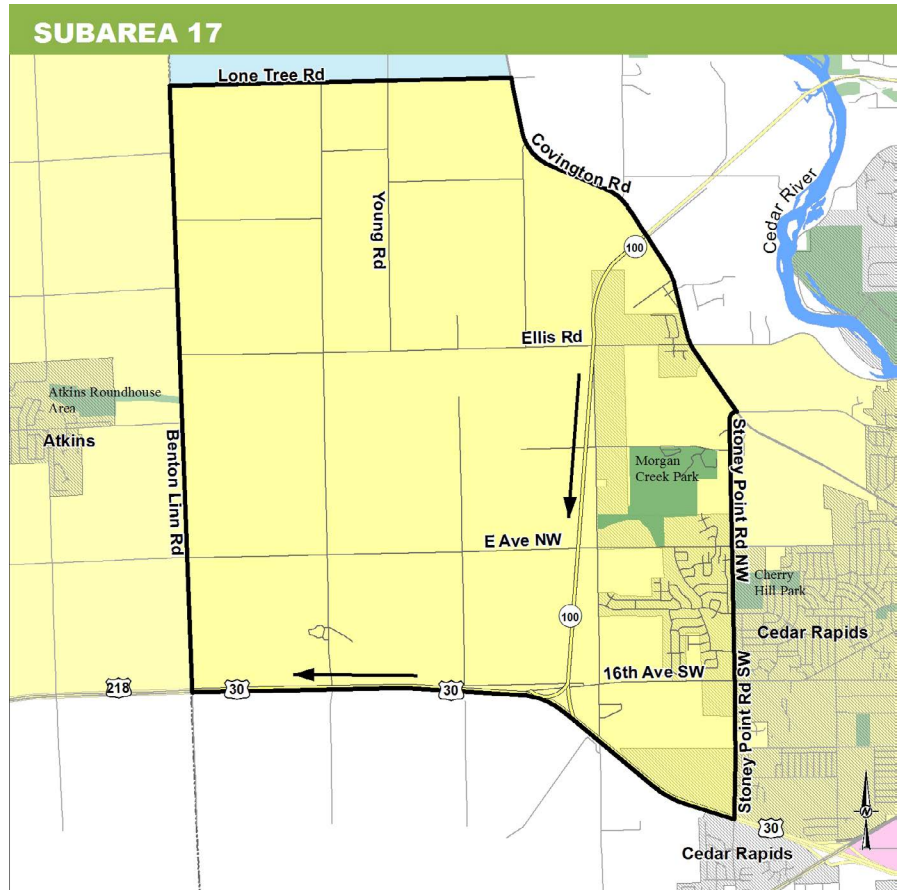
Subarea 17

Subarea 17 includes a portion southwest and northwest Cedar Rapids.

- » Northern Boundary: Lone Tree Road
- » Eastern Boundary: Covington Road and Stoney Point Road
- » Southern Boundary: Highway 30/218 including both sides of the highway
- » Western Boundary: Linn-Benton Road

The following recreation areas are included in subarea 17:

- » Morgan Creek



Evacuation route:

- » Take Highway 30/218 west to Marshalltown

Reception center:

Central Iowa Fairgrounds,
Marshall County
1308 East Olive Street
Marshalltown IA 50158

Need help getting out?

Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

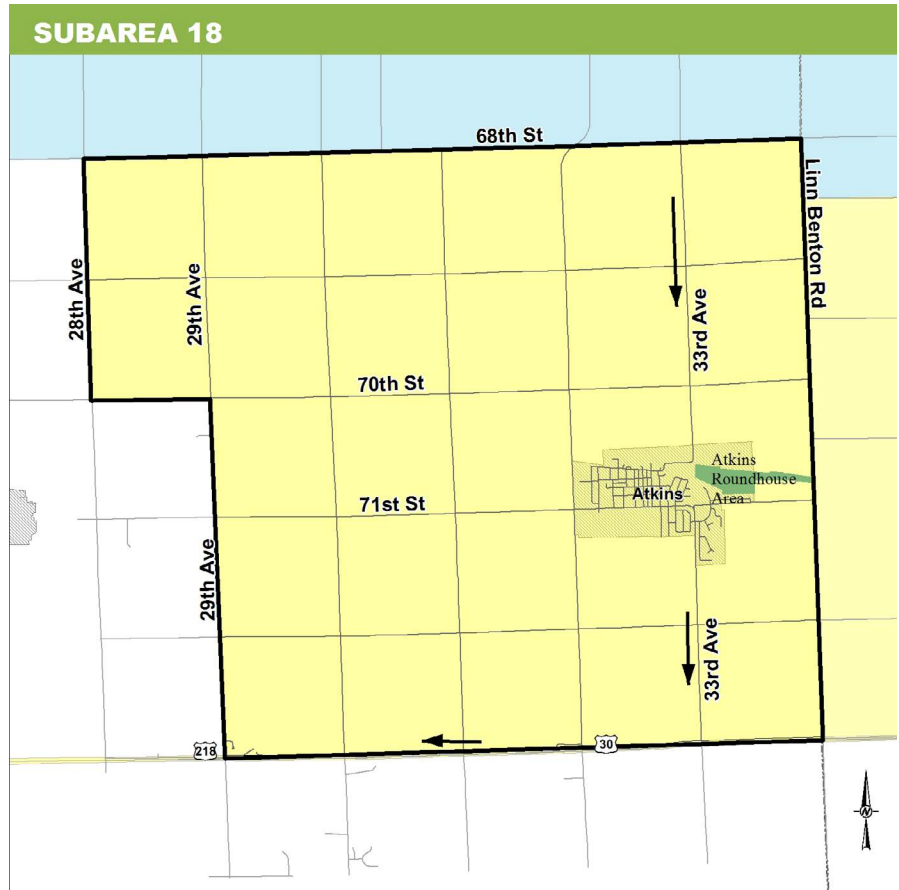
Subarea 18

Subarea 18 includes Atkins and a portion of rural Benton County.

- » Northern Boundary: 68th Street
- » Eastern Boundary: Linn-Benton Road
- » Southern Boundary: Highway 30/218
- » Western Boundary: 29th Avenue, 70th Street, and 28th Avenue

The following recreation areas are included in subarea 18:

- » Atkins Roundhouse Area



Evacuation route:

- » Take Highway 30/218 west to Marshalltown.
- » Head south on 33rd Avenue to Highway 30/218; take Highway 30/218 west to Marshalltown.

Reception center:

Central Iowa Fairgrounds,
Marshall County
1308 East Olive Street
Marshalltown IA 50158

Need help getting out?

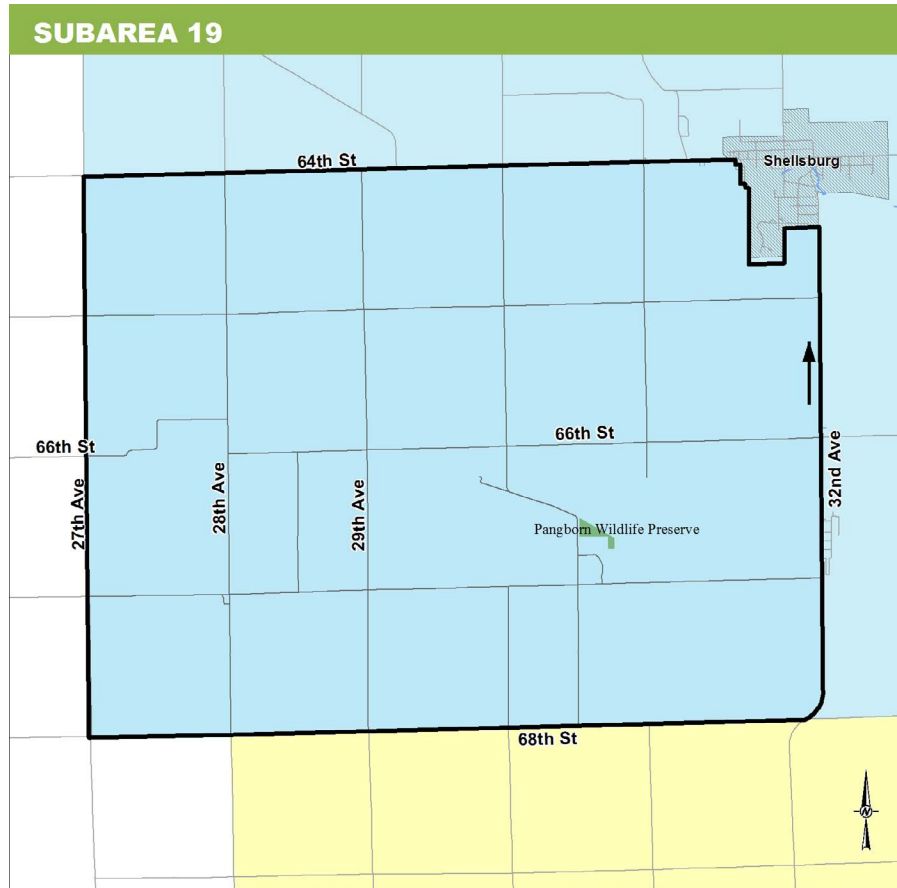
Benton County

If you need a ride in an emergency, call the Benton County Emergency Management Agency at **319-472-4519**.

Subarea 19

Subarea 19 includes a portion of rural Benton County.

- » Northern Boundary: 64th Street, excluding Shellsburg
- » Eastern Boundary: 32nd Avenue, excluding Shellsburg
- » Southern Boundary: 68th Street
- » Western Boundary: 27th Avenue including residences on both sides of 27th Avenue



Evacuation route:

- » Head north on 32nd Avenue to Highway 150; take Highway 150 north to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

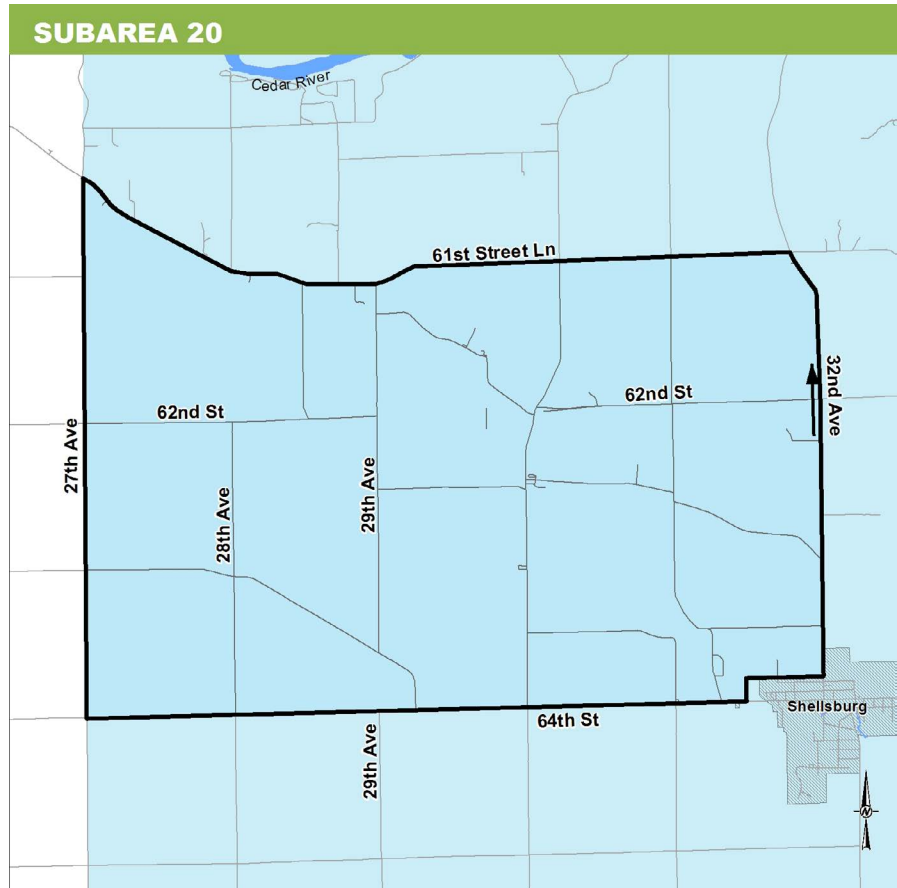
Benton County

If you need a ride in an
emergency, call the Benton
County Emergency Management
Agency at **319-472-4519**.

Subarea 20

Subarea 20 includes a portion of rural Benton County.

- » Northern Boundary: 61st Street Lane
- » Eastern Boundary: 32nd Avenue, excluding Shellsburg
- » Southern Boundary: 64th Street, excluding Shellsburg
- » Western Boundary: 27th Avenue including residences on both sides of 27th Avenue



Evacuation route:

- » Head north on 32nd Avenue to Highway 150; take Highway 150 north to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

Benton County

If you need a ride in an emergency, call the Benton County Emergency Management Agency at **319-472-4519**.

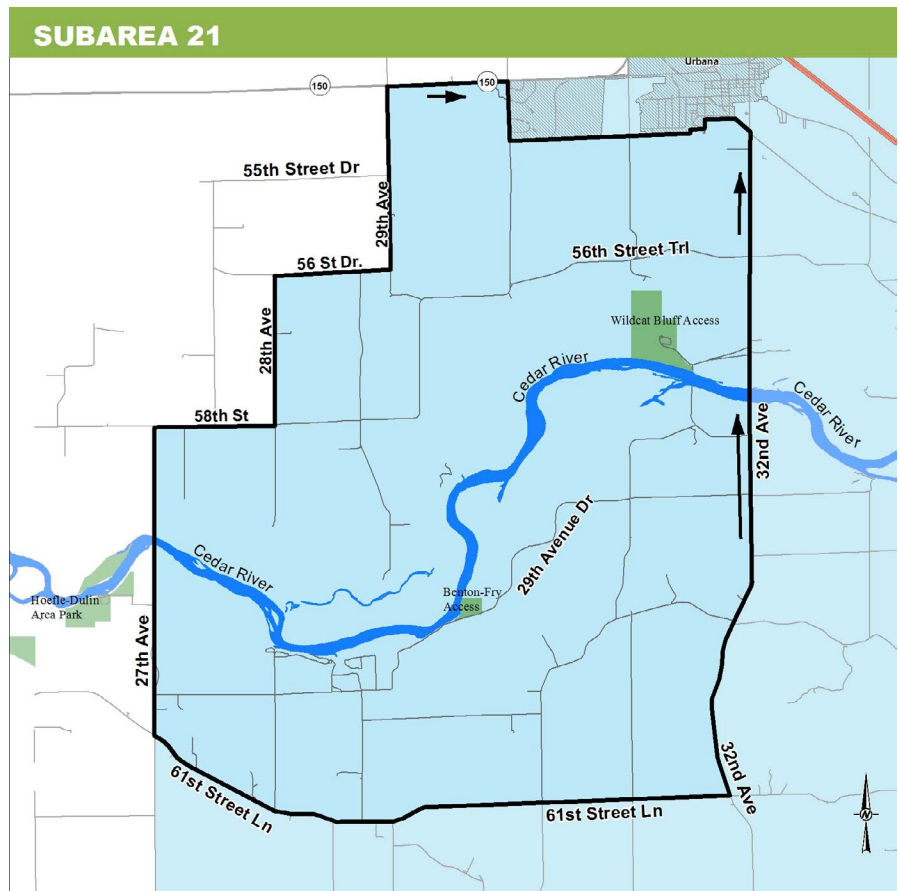
Subarea 21

Subarea 21 includes a portion of rural Benton County.

- » Northern Boundary: Highway 150/55th Street, not including Urbana
- » Eastern Boundary: 32nd Avenue, excluding Urbana
- » Southern Boundary: 61st Street Lane
- » Western Boundary: 27th Avenue, 58th Street, 28th Avenue, 56th Street Drive, and 29th Avenue

The following recreation areas are included in Subarea 21:

- » Benton City Park
- » Wild Cat Park



Evacuation route:

- » Head north on 32nd Avenue to Highway 150; take Highway 150 north to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

Benton County

If you need a ride in an emergency, call the Benton County Emergency Management Agency at **319-472-4519**.

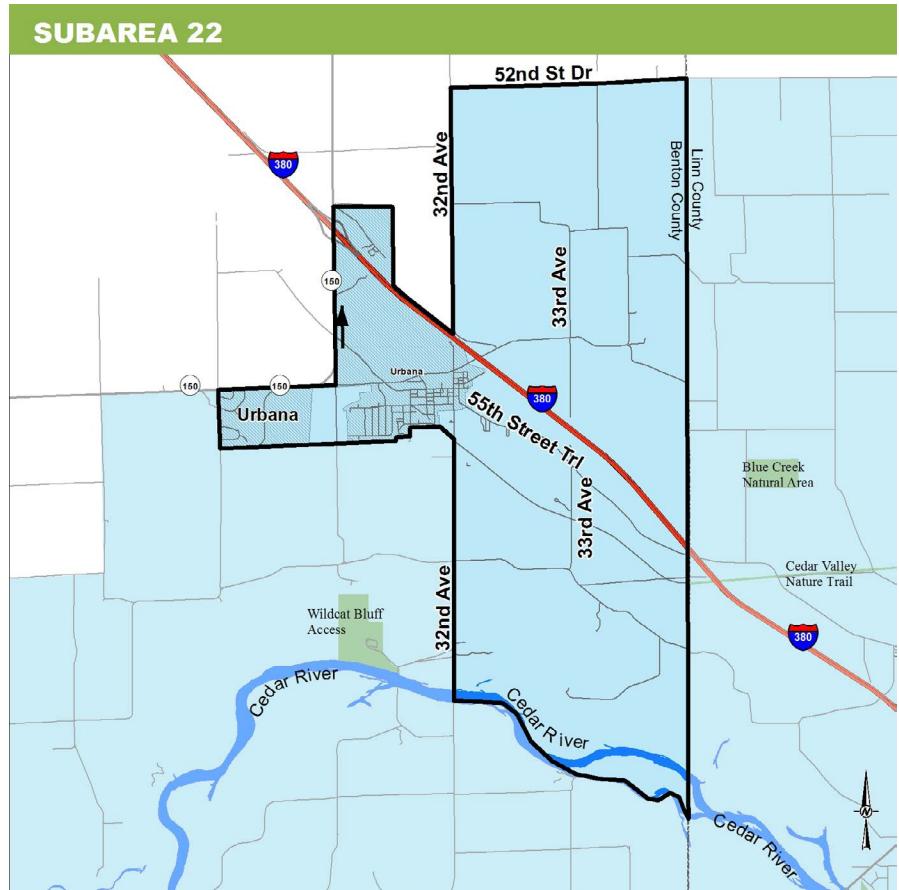
Subarea 22

Subarea 22 includes Urbana and a portion of rural Benton County.

- » Northern Boundary: 52nd Street Drive
- » Eastern Boundary: Linn-Benton County Line
- » Southern Boundary: Cedar River
- » Western Boundary: 32nd Avenue, including the City of Urbana

The following recreation areas are included in Subarea 22:

- » Cedar Valley Nature Trail



Evacuation route:

- » Head north on Highway 150 to Independence.

Reception center:

Mental Health Institute in
Buchanan County
2277 Iowa Avenue
Independence IA 50644

Need help getting out?

Benton County

If you need a ride in an emergency, call the Benton County Emergency Management Agency at **319-472-4519**.

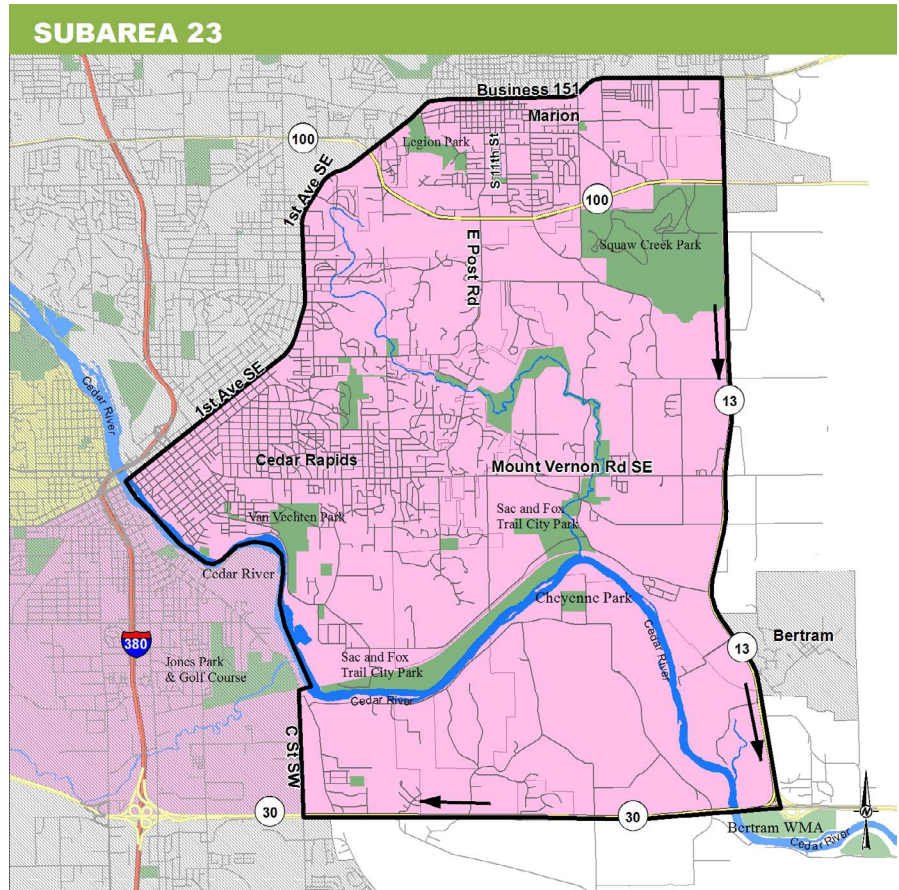
Subarea 23

Subarea 23 includes a portion of southeast and southwest Cedar Rapids and a portion of Marion south of Highway 151B.

- » Northern Boundary: Highway 151B
- » Eastern Boundary: Highway 13
- » Southern Boundary: Highway 30
- » Western Boundary: C Street SW and the Cedar River

The following recreation areas are included in subarea 23:

- » Squaw Creek Park
- » Sac & Fox Trail



Evacuation route:

- » Take Highway 151/13 south to Highway 30/151; head west on Highway 30/151, then take Interstate 380 south to Interstate 80; head east on Interstate 80, then take Highway 61 north to Eldridge.
- » Take Highway 30/151 west to Interstate 380; head south on Interstate 380, then take Interstate 80 east to Highway 61; take Highway 61 north to Eldridge.
- » Take Interstate 380 south to Interstate 80; head east on Interstate 80, then take Highway 61 north to Eldridge.

Reception center:

North Scott Senior High School
200 South 1st Street
Eldridge, IA 52748

Need help getting out?

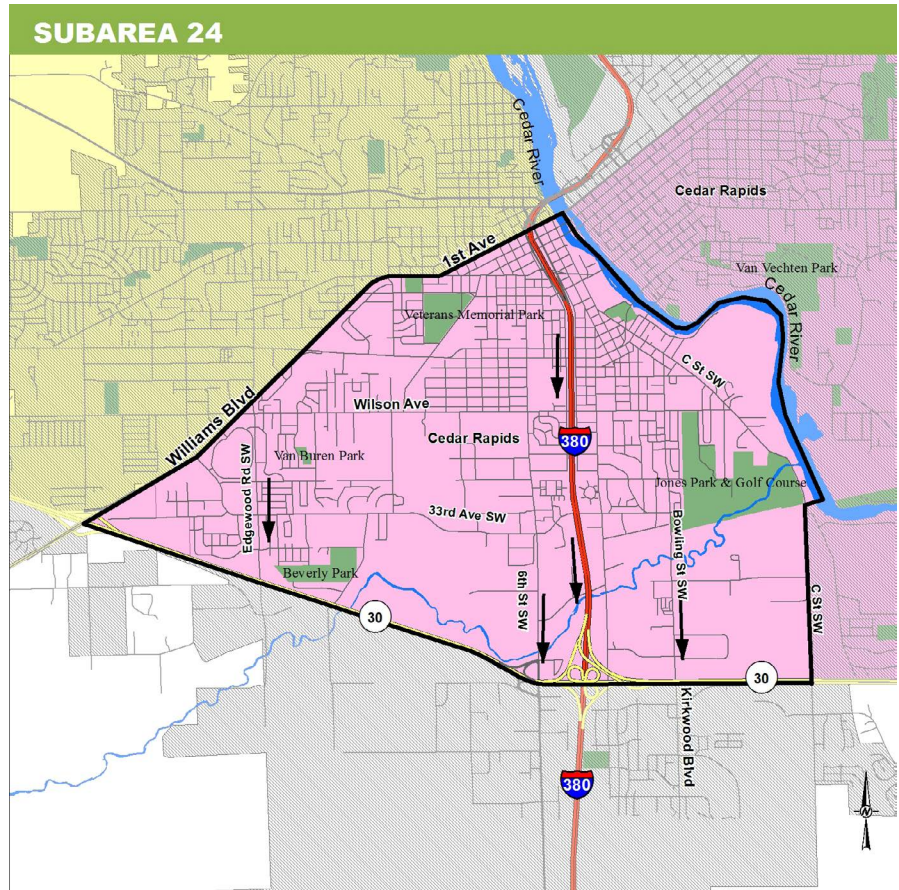
Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

Subarea 24

Subarea 24 includes a portion of southwest Cedar Rapids.

- » Northern Boundary: Highway 151B/ First Avenue
- » Eastern Boundary: Highway 151/13
- » Southern Boundary: Highway 30/151
- » Western Boundary: C Street and the Cedar River



Evacuation route:

- » Take Kirkwood Boulevard south to Wright Brothers Boulevard; head west on Wright Brothers Boulevard, then take Interstate 380 or Highway 965 (6th Street SW) and head south to Interstate 80; head east on Interstate 80, then take Highway 61 north to Eldridge.
- » Take Edgewood Road south to Wright Brothers Boulevard; head east on Wright Brothers Boulevard, then take Interstate 380 or Highway 965 (6th Street SW) south to Interstate 80; head east on Interstate 80, then take Highway 61 north to Eldridge.

Reception center:

North Scott Senior High School
200 South 1st Street
Eldridge, IA 52748

Need help getting out?

Linn County

If you are in an area served by CR Transit, go to the nearest bus stop and wait for a free pickup. If you are not able to get to a bus stop and need a ride in an emergency, call the Linn County Emergency Management Agency at **319-892-6500**.

School relocation

Early in an emergency, school children may be moved to temporary relocation centers outside the emergency planning zone. Public and private schools in the 10-mile area around the plant have emergency plans in place to ensure the safety of children and staff. Please check with your school to learn more about their emergency plans.

- » DO NOT disrupt a school relocation by trying to pick up your children at their normal school. This causes traffic jams, security risks and slows the effort to get your children to safety. Pick up your children at the temporary relocation center.
- » Do not phone the school. Phone lines are needed for emergency use.
- » If you have questions about which schools are affected or where to pick up your child call United Way 2-1-1 or 1-800-244-7431.
- » Local radio and television stations will announce when and where school children may be picked up.
- » Parents and guardians can pick-up children at the temporary relocation centers.
- » If evacuations are ordered for the general public, any students still remaining at the temporary relocation centers will be taken to the reception center to be reunited with their parents.

If your child attends:	Subarea	Pick them up at:
Alburnett Community Schools		
All schools and affiliated preschools and daycares	12	North-Linn Schools 3033 Lynx Dr, Troy Mills
Atkins Elementary School and affiliated and non-affiliated preschools and daycares		
Atkins Elementary and affiliated preschools and daycares	18	Benton Community High School 600 1st St, Van Horne
Cedar Rapids Community Schools and affiliated preschools and daycares		
Arthur Elementary	15	West High School 2901 Melrose Ave, Iowa City
Cleveland Elementary	16	Amana Elementary School 3023 220th Trail, Amana
Coolidge Elementary	16	Springville Elementary/High School 602 Mill Ave, Springville
Erskine Elementary	23	Lakeview Elementary School 111 N Chabal St, Solon
Franklin Middle	15	West High School 2901 Melrose Ave, Iowa City
Garfield Elementary	15	West High School 2901 Melrose Ave, Iowa City
Grant Elementary	24	Springville Elementary School 602 Mill Ave, Springville
Grant Wood Elementary	23	Lakeview Elementary School 111 N Chabal St, Solon
Harding Middle	15	West High School 2901 Melrose Ave, Iowa City
Harrison Elementary	16	Amana Elementary School 3023 220th Trail, Amana
Hiawatha Elementary	14	West High School 2901 Melrose Ave, Iowa City
Hoover Elementary	16	Amana Elementary School 3023 220th Trail, Amana
Jackson Elementary	16	Amana Elementary School 3023 220th Trail, Amana
Jefferson High	24	Clear Creek-Amana Middle School 311 W Marengo Rd, Tiffin
Johnson STEAM Academy Elementary	23	Lakeview Elementary School 111 N Chabal St, Solon

If your child attends:	Subarea	Pick them up at:
Cedar Rapids Community Schools and affiliated preschools and daycares		
Kennedy High	15	West High School 2901 Melrose Ave, Iowa City
Kenwood Leadership Academy Elementary	15	
Madison Elementary	16	Amana Elementary School 3023 220th Trail, Amana
McKinley Middle	23	Solon High School 600 W 5th St, Solon
Metro High	23	
Nixon Elementary	14	West High School 2901 Melrose Ave, Iowa City
Pierce Elementary	15	
Polk Alternative Education Center	15	Clear Creek-Amana Middle School 311 W Marengo Rd, Tiffin
Roosevelt Middle	16	
Taft Middle and Alternative	16	Springville Elementary School 602 Mill Ave, Springville
Taylor Elementary	24	
Truman Elementary	16	Amana Elementary School 3023 220th Trail, Amana
Van Buren Elementary	24	Springville Elementary School 602 Mill Ave, Springville
Viola Gibson Elementary	4	West High School 2901 Melrose Ave, Iowa City
Washington High	23	Solon High School 600 W 5th St, Solon
Wilson Middle	24	Springville Elementary/High School 400 Academy St, Springville
Wright Elementary	15	West High School 2901 Melrose Ave, Iowa City
Center Point-Urbana Community Schools		
Center Point-Urbana Primary School, preschools and daycares	9	St. John's Elementary School 314 3rd St NE, Independence
Center Point-Urbana High	9	Independence Junior Senior High School 700 20th Avenue SW, Independence
Center Point-Urbana Intermediate	22	St. John's Elementary School 314 3rd St NE, Independence
Center Point-Urbana Middle	9	Independence Junior Senior High School 700 20th Avenue SW, Independence
Pointer Pup Preschool	22	St. John's Elementary School 314 3rd St NE, Independence
Linn-Mar Community Schools		
All schools and affiliated preschools and daycares	14	Cornell College 600 1st St SW, Mount Vernon
Marion Independent Schools		
All schools and affiliated preschools and daycares	23, 14	Cornell College 600 1st St SW, Mount Vernon
Metro Area Catholic Schools		
All schools and affiliated preschools and daycares	5, 14, 15, 16, 23, 24	West High School 2901 Melrose Ave, Iowa City

If your child attends:	Subarea	Pick them up at:
Private Schools and facilities not otherwise listed		
Andrews Christian Academy	4	West High School 2901 Melrose Ave, Iowa City
Cedar Valley Christian School and preschool	23	Washington Elementary School 615 5th Ave SW, Mount Vernon
Isaac Newton Christian Academy and Preschool	15	Southeast Junior High School 2501 Bradford Dr, Iowa City
Summit School	15	
Trinity Lutheran School and Preschool	24	Lakeview Elementary School 111 N Chabal St, Solon
Other preschools and daycares not otherwise listed in subareas 5, 14, 15, 16 and 17	5, 14, 15, 16, 17	Southeast Junior High School 2501 Bradford Dr, Iowa City
Other preschools and daycares not otherwise listed in subareas 23 and 24	23, 24	Cornell College 600 1st St SW, Mount Vernon
Shellsburg Elementary School		
Shellsburg Elementary School and affiliated and non-affiliated preschools and daycares	7	Tilford Elementary School 308 E 13th St, Vinton

Evacuation checklist:

If your area is instructed to evacuate, calmly and carefully pack necessities for up to one week. You can use the following checklist to prepare.

Things to do:

- » Listen to local radio or television stations. Emergency officials will provide information and instructions.
- » Follow evacuation directions.
- » Secure your residence. Lock doors and windows.
- » Pet owners are reminded that pets require special consideration. Make arrangements for your pets to be housed outside of the emergency planning zone. Reception centers do not have places for pets. All service animals will be received.
- » If you are not within the declared evacuation area, you should not evacuate. Continue to monitor the event and follow the instructions from local authorities. Evacuating when not required has the potential to increase the risk to your family and others by impeding the outbound traffic flow and slowing the evacuation from the affected area.
- » If you require evacuation assistance, make arrangements now by contacting your local emergency management agency.

Things to pack:

Medical items

- » Prescriptions
- » Eye glasses or contacts
- » Dentures
- » Special diet foods
- » Medical equipment
- » _____
- » _____
- » _____
- » _____
- » _____
- » _____

Baby supplies

- » Baby food and formula
- » Diapers and wipes
- » Favorite toy and blanket
- » Bottled water
- » _____
- » _____
- » _____
- » _____
- » _____
- » _____

Extra clothing

- » Enough clothing for several days for each person
- » Shoes
- » Coats or jackets depending on the weather
- » _____
- » _____
- » _____
- » _____

Personal hygiene items

- » Toothbrush/toothpaste
- » Shaving items
- » Sanitary items
- » Special soaps/shampoo
- » _____
- » _____
- » _____
- » _____
- » _____

Money

- » Cash and credit cards
- » Checkbook

Identification and important papers

- » Driver's license
- » List of medications
- » Passport
- » _____
- » _____
- » _____
- » _____
- » _____

Bedding

- » Two blankets or a sleeping bag for each person
- » Pillows
- » Towels

Miscellaneous

- » Portable radio with spare batteries
- » Flashlight with spare batteries
- » Cell phone charger
- » Extra car keys
- » _____
- » _____
- » _____

We hope you find this guide helpful. Please keep in mind it is not intended to be all-inclusive. You can find additional resources at **Ready.gov**.

Plan ahead:

To save time and avoid confusion during an emergency, there are a few pieces of information that will help you and your family be prepared.

I live in emergency planning area: _____

My emergency reception center is located: _____

My best evacuation route is: _____

I can pick my children up from their host school: _____

My plan for my pets: _____

Contact information

During an emergency, it is important to keep phone lines available for emergency workers. Do not use the telephone unless you need special assistance. If you need emergency assistance, call 911.

You can get messages sent directly to your mobile phone during an emergency by signing up for mobile and digital alerts.

This information has been prepared by NextEra Energy Resources in cooperation with the Iowa Department of Homeland Security and Emergency Management, Linn County Emergency Management Agency and Benton County Emergency Management Agency. You may get more information from any of the following organizations:



Iowa Department of Homeland Security and Emergency Management

7900 Hickman Road, Suite 500, Windsor Heights, IA 50324
(515) 725-3231

Homelandsecurity.iowa.gov

Linn County Emergency Management Agency

6301 Kirkwood Blvd. SW, Cedar Rapids, IA 52404
(319) 892-6500

Linncounty-ema.org



Benton County Emergency Management Agency

213 2nd Ave., Vinton, IA 52349
(319) 472-4519

Bentoncountyema.com



United Way 2-1-1

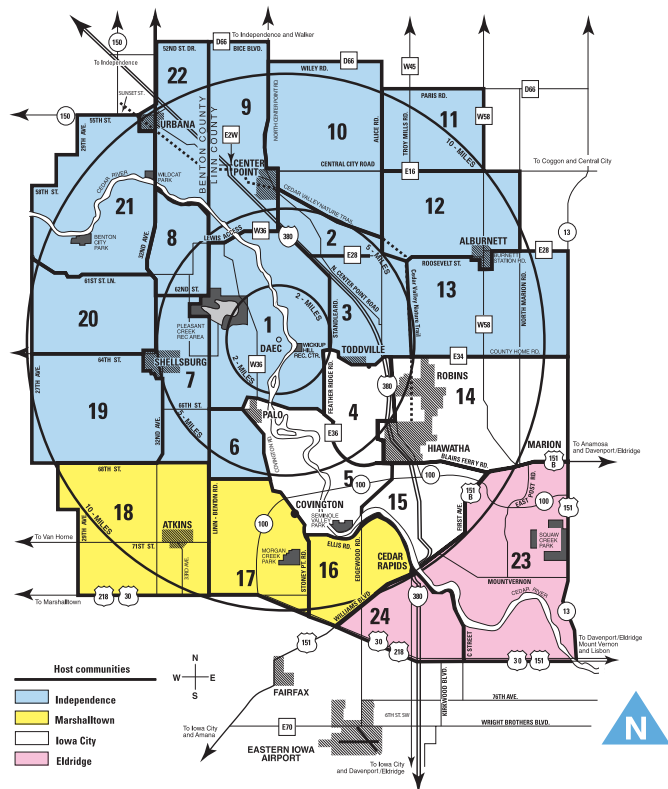
2-1-1 or 1-800-244-7431

Duane Arnold Energy Center website

DuaneArnold.com

Important Safety Information for Neighbors

DUANE ARNOLD EMERGENCY PREPAREDNESS PLAN



Power Plant 10-Mile Radius and Evacuation Areas

This card contains important emergency preparedness information for people located within the 10-mile emergency planning zone around the Duane Arnold Energy Center. It was developed by emergency management officials and provides basic information about what to do in the event of a nuclear emergency. For more details about how to prepare for an emergency, visit **DuaneArnold.com**.

IN AN EMERGENCY

- » If an emergency at the Duane Arnold Energy Center requires you to take any action, outdoor warning sirens will sound throughout the entire 10-mile emergency planning zone.
- » Emergency management officials will issue emergency alerts via radio and television transmission signals, weather radios, as well as mobile and digital emergency alert networks.
- » Siren tests are conducted by local emergency management officials on the first Wednesday of every month.



An **Unusual Event** is a minor incident such as severe weather.

Public action is rarely required.



An **Alert** is a minor incident that affects, or could potentially affect, reactor safety.

Public action is rarely required.



A **Site Area Emergency** is a more serious incident. If you need to take action, sirens will sound alerting the **public to tune to local radio or television stations for official information.**



A **General Emergency** is the most severe emergency classification. If you need to take action, sirens will sound alerting the **public to tune to local radio or television stations for official information.**

WHAT YOU SHOULD DO

- » If you hear a siren or receive an emergency alert, tune to local radio or television stations or check the internet for more information.
Hearing a siren does not mean to evacuate.
- » If there is an emergency, please check with family, friends and neighbors in the area to ensure they are aware of the situation and can take action if needed.
- » If you have a family member in a nursing home or hospital, **do not try to pick them up.** These facilities also have their own emergency evacuation procedures.
- » If your children are in school, familiarize yourself with the school's emergency response plan. **Do not go to the school.** If instructed to relocate, students will be relocated to emergency reception centers beyond the 10-mile emergency planning zone. You can pick up your children at those locations.
- » Monitor local media outlets for updates.

To receive a printed version of emergency preparedness information, contact the Linn County Emergency Management Agency or the Benton County Emergency Management Agency. Keep this card for use during an emergency.

CONTACT INFORMATION

Linn County Emergency Management Agency
(319) 892-6500 | linncounty-ema.org

Benton County Emergency Management Agency
(319) 472-4519 | Bentoncountyema.com

**Iowa Department of Homeland Security and
Emergency Management**
(515) 725-3231 | homelandsecurity.iowa.gov

FOR MORE INFORMATION

Duane Arnold Energy Center Homepage
DuaneArnold.com

**Duane Arnold Nuclear Power Plant
Emergency Information**
nexteraenergyresources.com/DuaneArnold

Follow us on Twitter
 @DuaneArnoldNPP

2-1-1

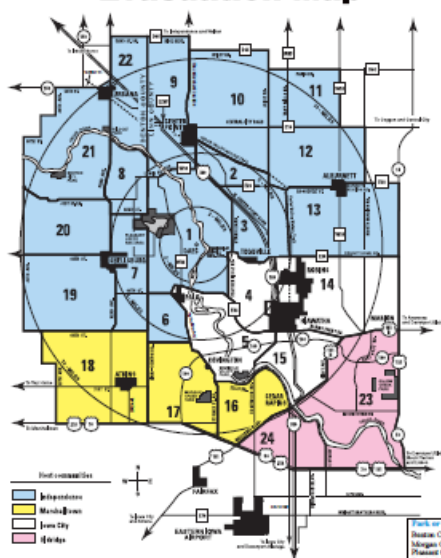
Get Connected • Get Help™

Dial 2-1-1 or 1-800-244-7431

A 24-hour hotline number for health
and human service information. Call to
pre-register if you or a family member will
need assistance during an evacuation.

Evacuation Map

1. Subarea includes immediate vicinity around NextEra Energy (NEXE) in Rural Linn County - Relocate to Independence
Evacuate via US 20 north to Iowa 150, north to Independence OR west of Cedar River, east of Cedar River, west to US 20, north to US 25, west to Independence.
2. Subarea includes Rural Linn County - Relocate to Independence
Evacuate via US 20 north to Iowa 150, north to Independence OR North Center Point Road north to Spencerville Road, west to Iowa 150, north to Independence.
3. Subarea includes Rural Linn County - Relocate to Independence
Evacuate via US 20 north to Iowa 150, north to Independence OR North Center Point Road north to Spencerville Road, west to Iowa 150, north to Independence.
4. Subarea includes Rural Linn County - Relocate to Independence
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16. Subarea includes Rural Linn County - Relocate to Independence
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19. Subarea includes Rural Linn County - Relocate to Independence
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20. Subarea includes Rural Linn County - Relocate to Independence
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Evacuate via US 20 north to Iowa 150, north to Independence OR North Center Point Road north to Spencerville Road, west to Iowa 150, north to Independence.
23. Subarea includes Rural Linn County - Relocate to Independence
Evacuate via US 20 north to Iowa 150, north to Independence OR North Center Point Road north to Spencerville Road, west to Iowa 150, north to Independence.
24. Subarea includes Rural Linn County - Relocate to Independence
Evacuate via US 20 north to Iowa 150, north to Independence OR North Center Point Road north to Spencerville Road, west to Iowa 150, north to Independence.



Evacuation Directions by Subarea

1. Subarea includes Rural Linn County - Relocate to Independence
Evacuate via US 20 north to Iowa 150, north to Independence OR North Center Point Road north to Spencerville Road, west to Iowa 150, north to Independence.
2. Subarea includes Rural Linn County - Relocate to Independence
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Subarea	Relocate to
1	Independence
2	Independence
3	Independence
4	Independence
5	Independence
6	Independence
7	Independence
8	Independence
9	Independence
10	Independence
11	Independence
12	Independence
13	Independence
14	Independence
15	Independence
16	Independence
17	Independence
18	Independence
19	Independence
20	Independence
21	Independence
22	Independence
23	Independence
24	Independence

Message to visitors:

Welcome to East Central Iowa! Please review this guide and keep it handy. The electricity in this area is provided by the NextEra Duane Arnold Energy Center. This brochure will provide direction in the unlikely event of a nuclear emergency. Enjoy your stay!

Outdoor Warning Sirens:

This region is equipped with outdoor warning sirens, which are used for a variety of public safety emergencies. If you hear a siren sound, tune into your local Emergency Alert System (EAS) radio station, 600 AM or 96.5 FM. A message will provide information on and instructions for the emergency. The siren system is tested the first Wednesday of each month at approximately 8:45 a.m.

General Precautionary Guidelines for a Nuclear/Radiological Emergency

If you are indoors:

- Remain there unless directed otherwise.
- Shut all windows and doors.
- Turn off all ventilation systems (e.g., heating, air conditioning, fans).
- Cover open food containers.

If you are outdoors:

- Cover your nose and mouth with a cloth.
- Go indoors immediately.
- Wash your hands and face before eating, drinking, and handling food.
- Take a lukewarm shower if possible.

If you are told to evacuate:

- If possible, use your own transportation. If you cannot, contact the appropriate agency listed in this brochure for alternatives.
- Drive safely, following all traffic laws and directions. Note that evacuation decisions are made far in advance of need. You have time.
- Keep climate controls off and keep windows and vents closed while driving in an area under evacuation.
- Stay tuned to 600 AM or 96.5 FM for current information.
- Follow directions to the designated reception center for your area. These centers are equipped to provide radiological monitoring, short-term shelter, and supplies.
- Current information will be available at the reception centers, including when state and local officials report it is safe to return to the evacuated area.
- All service animals may accompany their owners to the reception centers.

The Emergency Information for the NextEra Duane Arnold Energy Center is located at DuaneArnold.com

Emergency Numbers

For all areas in Benton and Linn Counties

DIAL 911 EMERGENCY ONLY

Other Emergency Numbers

DNR	1-515-725-8694
Environmental & chemical spills	1-515-725-8694
Iowa State Patrol highway emergency	319-396-1944 or 1-800-525-5555
Poison Control	1-800-222-1222

Presented in cooperation with

Iowa Department of Homeland Security and Emergency Management	515-725-3231
Linn County Emergency Management Agency	319-892-6500
Benton County Emergency Management Agency	319-472-4519
NextEra Energy Duane Arnold Energy Center	319-85 1-7061 319-85 1-7010

2-1-1

Get Connected • Get Help™

Dial 2-1-1 or toll free at 1-800-244-7431

A 24-hour hotline number for health and human service information.

Emergency Preparedness Information

For visitors and guests

Please read this emergency information



★ PREPARE ★ RESPOND ★ RECOVER ★ MITIGATE

April 9, 2020

TO: Hotel, Motel, and Bed and Breakfast Facilities in the DAEC Emergency Planning Zone

RE: Emergency Action Plan Guide for Visitors and Guests

Enclosed you will find emergency guides for visitors and guests to the area. We ask that you make these guides available to your guests or visitors. While this information is specific to an event occurring at the NextEra Energy Duane Arnold Energy Center the basic information on initial actions for our visitors and guests to take would be the same for all emergency events where the sirens have sounded. We have provided enough guides for each room in your facility.

If you need additional, copies please contact:

Brad Ransford, Logistics and Training
Linn County Emergency Management Agency
319-892-6503
Email at brad.ransford@linncounty-ema.org

If you have, questions please feel free to contact me:

Steve O'Konek, Coordinator
Linn County Emergency Management Agency
319-892-6501
Email at steve.okonek@linncounty-ema.org

Information on the Linn County Emergency Management Agency can be found at www.linncounty-ema.org

The Linn Alerts system provides a voice, text, and/or email alert to the number and or email address you provided for emergencies in Linn County. Information on Linn Alerts can be found at www.linncounty-ema.org

Thank you for your assistance in distributing this important information.

Sincerely,

Steve O'Konek
Linn County Emergency Management Coordinator

Serving all of Linn County and the Communities of: Alburnett, Bertram, Cedar Rapids, Center Point, Central City, Coggon, Ely, Fairfax, Hiawatha, Lisbon, Marion, Mt. Vernon, Palo, Prairieburg, Robins, Springville, Walker, Walford

MEMO



To: Benton County Conservation, Linn County Conservation, City of Cedar Rapids Parks Dept., State of Iowa Pleasant Creek State Park

NEP-2020-008

Fr: Rebecca Palmer, Snr. Emergency Preparedness Coordinator
NextEra Energy DAEC

RE: Visitor Guide Distribution – *What Should Visitors Do in a DAEC Nuclear Event*

Annually, DAEC distributes Visitor Guides to select regional parks / recreational facilities located within the DAEC 10-mile Emergency Planning Zone. These Visitor Guides provide emergency information to visiting transient populations about what to do in case of an emergency at the DAEC Nuclear Power Plant. Could you please help to distribute these guides in the following parks and recreational facilities?

Benton County Conservation

- Benton City Park
- Cedar Valley Nature Trail
- Hoefle-Dublin Recreation Area

Linn County Conservation

- Cedar Valley Nature Trail
- Squaw Creek Park
- Morgan Creek Park
- Wickup Hill Natural Area

City of Cedar Rapids

- Seminole Valley Park
- Tuma Soccer Complex
- Tait Cummings Softball Complex

State of Iowa

- Pleasant Creek Recreational Area

If you have questions please feel free to contact me at Rebecca.Palmer@nee.com or at 319-851-7010. Thank you for your assistance.

Rebecca

Based upon information from the Internet. Visitor Bureau no longer keeps list.

Hotel/Motel List in IZP

2020

Company/Name	address1	city	state	zip	# rooms
Americinn Lodge & Suites	8910 6th Street SW	Cedar Rapids	IA	52404	62
Aspen Inn	3233 South Ridge Drive SW	Cedar Rapids	IA	52404	42
Baymont Inn & Suites Cedar Rapids	720 33rd Ave. SW	Cedar Rapids	IA	52404	85
Baymont Hill Victorian Bed and Breakfast	1525 Cherokee Drive NW	Cedar Rapids	IA	52405	3
Best Western PLUS Longbrant Hotel & Convention Center	90 Twink Town Rd	Cedar Rapids	IA	52402	106
Budget Inn	3100 16th Avenue SW	Cedar Rapids	IA	52404	74
Cedar Rapids Marriott	1200 Collins Road NE	Cedar Rapids	IA	52402	221
Clarion Hotel & Convention Center	525 33rd Avenue SW	Cedar Rapids	IA	52404	157
Comfort Inn & Suites (Werner Ave)	2025 Werner Avenue NE	Cedar Rapids	IA	52402	64
Country Inn & Suites	9100 Atlantic Drive SW	Cedar Rapids	IA	52404	74
Country Inn & Suites North	4044 Czech Lane NE	Cedar Rapids	IA	52402	82
Days Inn & Suites	2215 Blair Ferry Road NE	Cedar Rapids	IA	52402	90
Doubletree by Hilton Cedar Rapids & Convention Center	350 1st Avenue NE	Cedar Rapids	IA	52402	275
Econo Lodge	622 33rd Avenue SW	Cedar Rapids	IA	52404	50
Economy Inn & Suites	3245 Southgate Place SW	Cedar Rapids	IA	52404	40
Fairfield Inn & Suites by Marriott	605 32nd Ave SW	Cedar Rapids	IA	52404	92
Hampton Inn and Suites Cedar Rapids - North	1130 Park Place NE	Cedar Rapids	IA	52402	103
Hampton Inn Cedar Rapids	3265 6th Street SW	Cedar Rapids	IA	52404	106
Holiday Inn Express	1230 Collins Road NE	Cedar Rapids	IA	52402	83
Holiday Inn Express Hotel & Suites	3320 Southgate Court SW	Cedar Rapids	IA	52404	83
Homewood Inn & Suites	3315 Southgate Ct. SW	Cedar Rapids	IA	52404	109
Homewood Suites Cedar Rapids-North	1140 Park Place NE	Cedar Rapids	IA	52402	95
Hotel at Kirkwood Center	7725 Kirkwood Blvd. SW	Cedar Rapids	IA	52404	71
La Quinta Inn & Suites	1220 Park Pl	Cedar Rapids	IA	52402	80
MainStay Suite Hotel	5145 Rockwell Drive	Cedar Rapids	IA	52402	75
Microtel Inn & Suites	5500 Dyer Ave.	Morton	IA	52302	59
Motel 6	3325 Southgate Ct SW	Cedar Rapids	IA	52404	105
Motel 6 Airport	616 33rd Avenue SW	Cedar Rapids	IA	52404	102
Quality Inn	4747 1st Ave SE	Cedar Rapids	IA	52402	49
Quality Inn at Collins	5055 Rockwell Drive NE	Cedar Rapids	IA	52402	59
Quality Inn South	3900 33rd Avenue SW	Cedar Rapids	IA	52404	100
Red Roof Inn	3243 Southridge Drive SW	Cedar Rapids	IA	52404	105
Residence Inn by Marriott	1900 Dodge Road NE	Cedar Rapids	IA	52402	65
Residence Inn Cedar Rapids South	730 33rd Ave SW	Cedar Rapids	IA	52404	95
Rodeway Inn	4011 16th Avenue SW	Cedar Rapids	IA	52404	51
Super 8 Motel East	400 33rd Ave. SW	Cedar Rapids	IA	52404	60
Urbana Inn and Suites	5369 Hutton Drive	Urbana	IA	52324	45
Victorian Lace Bed and Breakfast	300 East Main St.,	Marion	IA	52302	2
Note: Quality Inn South is an estimate as to rooms					3220

Hot Boxes

**United Way 2-1-1
Information and Referral Specialist Notebook
for
Duane Arnold Energy Center Activities and other Emergency
Related Activities**

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Revision Date: 12/28/19

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Helms, Lonnie

From: Robertson, Lindsay
Sent: Wednesday, December 16, 2020 12:42 PM
To: Robertson, Lindsay; news@kwwl.com; news@cbs2iowa.com; newsroom@kcrq.com; news@theqazette.com; randylee@iheartmedia.com
Cc: Helms, Lonnie; Murphy salyer, Megan
Subject: Duane Arnold Energy Center information
Attachments: NEER_105833_POSTCARD PDA EP - 2021_v2.pdf

Dear media partner,

As a member of the media, we consider you to be an essential partner in helping us effectively communicate with the public in the unlikely event of an emergency at Duane Arnold Energy Center.

We updated our emergency preparedness materials by including additional information on our website. This update improves the ability for our neighbors to access emergency preparedness information at any time, day or night. We encourage you to visit www.NextEraEnergyResources.com/DuaneArnold to familiarize yourself with the information.

In addition to the website, every resident within 10 miles of Duane Arnold Energy Center will receive the attached postcard. The postcard provides basic information to help prepare the community. The postcard is sent out annually.

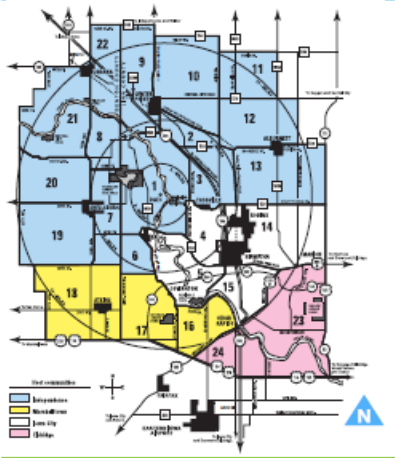
If you have any questions about how we work to ensure the safety of the public, please contact our 24-Hour Media Line at 561-694-4442. This ensures your inquiry is received for timely follow-up.

Lindsay Robertson
Senior Communications Specialist

NextEra Energy Nuclear Communications
24-Hour Media Line (561) 694-4442
Lindsay.Robertson@NextEraEnergy.com

Important Safety Information for Neighbors

DUANE ARNOLD EMERGENCY PREPAREDNESS PLAN



Power Plant 10-Mile Radius and Evacuation Areas

This card contains important emergency preparedness information for people located within the 10-mile emergency planning zone around the Duane Arnold Energy Center. It was developed by emergency management officials and provides basic information about what to do in the event of a nuclear emergency. For more details about how to prepare for an emergency, visit DuaneArnold.com.

IN AN EMERGENCY

- » If an emergency at the Duane Arnold Energy Center requires you to take any action, outdoor warning sirens will sound throughout the entire 10-mile emergency planning zone.
- » Emergency management officials will issue emergency alerts via radio and television transmission signals, weather radios, as well as mobile and digital emergency alert networks.
- » Siren tests are conducted by local emergency management officials on the first Wednesday of every month.



An **Unusual Event** is a minor incident such as severe weather.

Public action is rarely required.



An **Alert** is a minor incident that affects, or could potentially affect, reactor safety.

Public action is rarely required.



A **Site Area Emergency** is a more serious incident. If you need to take action, sirens will sound alerting the **public to tune to local radio or television stations for official information.**



A **General Emergency** is the most severe emergency classification. If you need to take action, sirens will sound alerting the **public to tune to local radio or television stations for official information.**



WHAT YOU SHOULD DO

- » If you hear a siren or receive an emergency alert, tune to local radio or television stations or check the internet for more information. **Hearing a siren does not mean to evacuate.**
- » If there is an emergency, please check with family, friends and neighbors in the area to ensure they are aware of the situation and can take action if needed.
- » If you have a family member in a nursing home or hospital, **do not try to pick them up.** These facilities also have their own emergency evacuation procedures.
- » If your children are in school, familiarize yourself with the school's emergency response plan. **Do not go to the school.** If instructed to relocate, students will be relocated to emergency reception centers beyond the 10-mile emergency planning zone. You can pick up your children at those locations.
- » Monitor local media outlets for updates.

To receive a printed version of emergency preparedness information, contact the Linn County Emergency Management Agency or the Benton County Emergency Management Agency. Keep this card for use during an emergency.



Dial 2-1-1 or 1-800-244-7431

A 24-hour hotline number for health and human service information. Call to pre-register if you or a family member will need assistance during an evacuation.

CONTACT INFORMATION

Linn County Emergency Management Agency
(319) 892-6500 | linncounty-ema.org
Benton County Emergency Management Agency
(319) 472-4519 | bentoncountyema.com
Iowa Department of Homeland Security and Emergency Management
(515) 725-3231 | homelandsecurity.iowa.gov

FOR MORE INFORMATION

Duane Arnold Energy Center Homepage
DuaneArnold.com

Duane Arnold Nuclear Power Plant Emergency Information
nexteraenergyresources.com/DuaneArnold

Follow us on Twitter
[@DuaneArnoldNPP](https://twitter.com/DuaneArnoldNPP)

2020 Offsite Training Summary

County	Training Date	Location	Course Name	Total # Trained
Polk	1/21/2020	Central Iowa 211 Call Center	Plan Overview / Role Play	2
Polk	2/6/2020	Central Iowa 211 Call Center	Plan Overview / Role Play	2
Johnson	2/13/2020	Johnson County EOC	Iowa City Fire Reception Center Monitoring/Decon	19
Johnson	2/18/2020	Johnson County EOC	HAM Operators Emergency Worker Training	10
Linn	2/27/2020	Linn Mar and Marion Schools	Plan Overview and Emergency Worker Training	10
Benton	3/4/2020	Benton County EOC	2020 DAEC Dress Rehearsal	28
Linn	3/4/2020	Linn County EOC	2020 DAEC Dress Rehearsal	58
Linn	12/14/2020	Cedar Rapids Community School District Transportation workers via Zoom	Emergency Worker Training	159
Total				288

Palmer, Rebecca

From: Palmer, Rebecca
Sent: Tuesday, January 14, 2020 8:32 AM
To: 'Ketels, Brad'; 'Ryan Miller (RMiller@cityofmarion.org)'; 'Duffy, Michael T.'; 'Rod Jasa (streets@hiawatha-iowa.com)'; 'Myron Parizek (mparizek@co.benton.ia.us)'
Cc: Hansen, Scott (bentoncountyma@fmtcs.com); steve.okonek@linncounty-ema.org; Nessler, Mike (mnesslage@hiawatha-iowa.com)
Subject: RE: DAEC 2020 Training Offer - Public Works and Secondary Roads

Public Works and Secondary Roads Dept.

The TO: line for this training offer should have read **TO: Law Enforcement and Public Works/Secondary Road**

The purpose of the training is to brief these officials and workers on the evacuation plan and how traffic and access control is established. There is an updated EP2 Traffic Management Plan that is being printed this week, which reflects how traffic and access control is handled for the Highway 100 by-pass. The updated plan and maps should be delivered to you over the next few weeks.

DAEC is still a generating nuclear power plant and must maintain offsite emergency preparedness knowledge, skills and abilities until early fall of 2021. Your assistance and support are greatly appreciated.

Rebecca Palmer, Snr. EP Coordinator
NextEra Energy Duane Arnold

From: Palmer, Rebecca
Sent: Monday, January 13, 2020 10:32 AM
To: 'Mike Wallerstedt (m.wallerstedt@cedar-rapids.org)' <m.wallerstedt@cedar-rapids.org>; 'Marks, Dennis' <chief@hiawathapolice.com>; 'Rich Holland (127@marionpolice.com)' <127@marionpolice.com>; 'McGivern, Greg' <Greg.McGivern@linncounty.org>; 'Ketels, Brad' <Brad.Ketels@linncounty.org>; 'Ryan Miller (RMiller@cityofmarion.org)' <RMiller@cityofmarion.org>; 'Duffy, Michael T.' <m.duffy@cedar-rapids.org>; 'Rod Jasa (streets@hiawatha-iowa.com)' <streets@hiawatha-iowa.com>; 'Myron Parizek (mparizek@co.benton.ia.us)' <mparizek@co.benton.ia.us>; 'Ron Tippet (r.tippet@bentonsheriff.com)' <r.tippet@bentonsheriff.com>
Cc: Hansen, Scott (bentoncountyma@fmtcs.com) <bentoncountyma@fmtcs.com>; steve.okonek@linncounty-ema.org
Subject: DAEC 2020 Training Offer

NEXTERA ENERGY DAEC RADIOLOGICAL PREPAREDNESS TRAINING PARTNERSHIP



NEP



2020-003

(email)

TO: Law Enforcement Organizations in the DAEC Emergency Planning Zone

NextEra Energy Duane Arnold in coordination with training partners HSEMD, and Benton and Linn County Emergency Management Agencies is pleased to once again offer annual training for personnel needing training to implement the Benton and Linn County Radiological Emergency Response Plans.

COURSE OFFERINGS

The type and length of training that has been identified for your organization is:

Traffic and Access Control Training is a one and half-hour course delivered in-class room or a one hour course delivered on-line. This course provides information that responders need in case of an evacuation due to an incident at DAEC.

ARRANGING FOR IN-CLASS ROOM TRAINING DELIVERY

Training can be delivered during the months of **February through September 2020.**

Please select up to 3 potential dates during these months and in a reply email to me (or you can fax the response to 319-851-7813) please provide the following information:

1. Name of organization
2. Three dates and times for training
3. Contact Person/Title with contact information
4. Estimated number of participants and location for training (include address)

IF YOU WANT TO DECLINE TRAINING

Note in the reply email or faxed response _____ We would prefer NOT to schedule training this year

To help us meet our reporting requirements please respond by Feb. 12, 2020.

Faxed responses should be sent to 319-851-7813

IF YOU WOULD LIKE YOUR LAW ENFORCEMENT PERSONNEL TO TAKE THE ON-LINE COURSE

Note that this is a great option for new hires for those organizations that schedule in-class room training every two to four years

- 1) Go to <http://iowarep.training-source.org>
- 2) Click on "Take the Radiological Emergency Preparedness Training"
- 3) Click on "Launch this Course"
- 4) Create a "New Account" or "Sign-in" if you already have an account

NOTE:

- All trainees must register individually to receive course credit. A completion certificate can be printed at the end of the course.
- There may be a way to have a department's Training Officer or Administrator conduct a group on-line session. If this option is appropriate contact Rebecca and she can go over this option in more detail.

FOR MORE INFORMATION CONTACT:

Rebecca Palmer, Senior EP Coordinator
NextEra Energy Duane Arnold
Rebecca.palmer@nee.com
Cell 319-310-7982
Office 319-851-7010

Please select up to 3 potential dates during these months and in a reply email to me at rebecca.palmer@nexteraenergy.com (or you can fax the response to 319-851-7813) please provide the following information:

1. Name of organization
2. Three dates and times for training (June through November)
3. Contact Person/Title with contact information
4. Estimated number of participants and location for training (include address)

IF YOU WOULD LIKE YOUR PERSONNEL TO TAKE THE ON-LINE COURSE

- 1) Go to <http://iowarep.training-source.org>
- 2) Click on "Take the Radiological Emergency Preparedness Training"
- 3) Click on "Launch this Course"
- 4) Sign-in or Create New Account

NOTE:

- All trainees must register individually to receive course credit. A completion certificate can be printed at the end of the course.

IF YOU WANT TO DECLINE TRAINING

Note in the reply email or faxed response ☐ We would prefer NOT to schedule training this year

To help us meet our reporting requirements please respond by Feb. 12, 2020

Faxed responses should be sent to 319-851-7813

Email responses can be sent to Rebecca.Palmer@nexteraenergy.com

Mailed Responses can be sent to Rebecca Palmer, Snr. EP Coordinator, NextEra Energy Duane Arnold, 3277 DAEC Rd., Palo, IA 52324

If you have questions please contact:

Rebecca Palmer, Senior Emergency Preparedness Coordinator, NextEra Energy Duane Arnold

Email: Rebecca.palmer@nexteraenergy.com

Tele: 319-851-7010

Rebecca Palmer

Senior EP Coordinator / NextEra Energy Duane Arnold / 3277 DAEC Rd., Palo, IA. 52324

(B) 319-851-7010 / (C) 319-310-7982 / Fax 319-851-7813 / rebecca.palmer@nee.com

Palmer, Rebecca

From: Palmer, Rebecca
Sent: Monday, January 13, 2020 10:12 AM
To: 'paul.pressler@summitschools.org'
Subject: FW: 2020 DAEC Training Offer

From: Palmer, Rebecca
Sent: Monday, January 13, 2020 10:08 AM
To: Dani Trimble (dtrimble@alburnettcsd.org) <dtrimble@alburnettcsd.org>; Day, Laurel <lday@crschools.us>; Scott Wing (swing@cr.k12.ia.us) <swing@cr.k12.ia.us>; Scott Kriegel (skriegel@cpuschools.org) <skriegel@cpuschools.org>; Gary Zittergruen (gzittergruen@benton.k12.ia.us) <gzittergruen@benton.k12.ia.us>; Pospisil, Jeff (jeffpospisil@cvchristian.org) <jeffpospisil@cvchristian.org>; Shannon Bisgard - Linn-Mar Community School District (sbisgard@linnmar.k12.ia.us) <sbisgard@linnmar.k12.ia.us>; Matt Berninghaus (mberninghaus@cpuschools.org) <mberninghaus@cpuschools.org>; Janelle Brouwer (jbrouwer@marion-isd.org) <jbrouwer@marion-isd.org>; Geoff Proffitt (gproffitt@marion-isd.org) <gproffitt@marion-isd.org>; Dean Ridder (drider@incaonline.org) <drider@incaonline.org>; Julie Olson (tnjparsons@aol.com) <tnjparsons@aol.com>; Kim Hermesen - Archdiocesan Superintendent of Schools (dbqsup@dbqarch.org) <dbqsup@dbqarch.org>; Kapsch, Julie (dbqcro@arch.pvt.k12.ia.us) <dbqcro@arch.pvt.k12.ia.us>; paul.pressler@summitschools.org
Cc: Hansen, Scott (bentoncountyma@fmtcs.com) <ben:oncountyma@fmtcs.com>; steve.okonek@linncounty-ema.org
Subject: 2020 DAEC Training Offer

NEXTERA ENERGY DAEC RADIOLOGICAL PREPAREDNESS TRAINING PARTNERSHIP



NEP 2020-03 (email)

TO: School Districts Inside of the DAEC Emergency Planning Zone – Training for Bus Drivers (please forward to others as appropriate)

NextEra Energy Duane Arnold in coordination with training partners HSEMD, and Benton and Linn County Emergency Management Agencies, is pleased to once again offer annual training for personnel needing training to implement the Linn or Benton County Radiological Emergency Response Plans.

COURSE OFFERINGS

The type and length of training that has been identified for your organization is:

Emergency Worker Training is a one-hour course delivered in-class room or via an on-line course

ARRANGING FOR IN-CLASS ROOM TRAINING DELIVERY

Training can be delivered during the months of February through Sept..

Palmer, Rebecca

From: Palmer, Rebecca
Sent: Tuesday, January 14, 2020 2:34 PM
To: Hansen, Scott (bentoncountyema@fmtcs.com); Ulrich, Tom (tom.ulrich@linncounty-ema.org); Andy Olesen - CRFD (a.olesen@cedar-rapids.org); Mike Cheney (MichaelCh@cedar-rapids.org); Maj. Pete Wilson (Pete.Wilson@linncounty.org); Nessler, Mike (mnessler@hiawatha-iowa.com); Jennifer Peden - Area Ambulance (jpeden@area-ambulance.org)
Subject: 2020 DAEC Training Offer

NEXTERA ENERGY DAEC RADIOLOGICAL PREPAREDNESS TRAINING PARTNERSHIP



NEP 2020-003 (email)

TO: Linn and Benton Emergency Worker Decontamination Stations, Linn County Correctional Facility, EMS Responding to Site

NextEra Energy Duane Arnold in coordination with training partners HSEMD, and Benton and Linn County Emergency Management Agencies is pleased to once again offer annual training for personnel needing training to implement the Benton and Linn County Radiological Emergency Response Plans.

COURSE OFFERINGS

The type and length of training that has been identified for your organization is:

- *Radiological Monitoring and Decontamination Workshop* – there is a 1 hour pre-requisite on-line course called Basic Emergency Worker Training, then a 2-3 hour in-class room hands on interactive skills training course
- *Radiological Monitoring and Decontamination Refresher* – a 2 to 3 hour in-class room hands on interactive skills training course

ARRANGING FOR IN-CLASS ROOM TRAINING DELIVERY

Training can typically be delivered during the summer and fall months.

Please select up to 3 potential dates during these months and in a reply email to me (or you can fax the response to 319-851-7813) please provide the following information:

1. Type of training
2. Name of organization
3. Three dates and times for training
4. Contact Person/Title with contact information
5. Estimated number of participants and location for training (include address)

IF YOU WANT TO DECLINE TRAINING

Note in the reply email or faxed response ☐ We would prefer NOT to schedule training this year

To help us meet our reporting requirements please respond by Feb. 12, 2020.

Faxed responses should be sent to 319-851-7813

TAKING THE PRE-REQUISITE ON-LINE COURSE

- 1) Go to <http://iowarep.training-source.org>
- 2) Click on "Take the Radiological Emergency Preparedness Training"
- 3) Click on "Launch this Course"
- 4) Create a "New Account" or "Sign-in" if you already have an account

NOTE:

- All trainees must register individually to receive course credit. A completion certificate can be printed at the end of the course.
- There may be a way to have a department's Training Officer or Administrator conduct a **group on-line session**. If this option is appropriate contact Rebecca and she can go over this option in more detail.

FOR INFORMATION CONTACT:

Rebecca Palmer, Senior Emergency Preparedness Coordinator
NextEra Energy Duane Arnold
3313 DAEC Rd., Palo, IA 52324-9902
Ofc: 319-851-7010
Cell: 319-310-7982
Fax: 319-851-7813

Rebecca Palmer

Senior EP Coordinator / NextEra Energy Duane Arnold / 3277 DAEC Rd., Palo, IA. 52324
(B) 319-851-7010 / (C) 319-310-7982 / Fax 319-851-7813 / rebecca.palmer@nee.com

Palmer, Rebecca

From: Palmer, Rebecca
Sent: Tuesday, January 14, 2020 3:05 PM
To: Larry Hlavacek (larry.hlavacek@linncounty.org); David Garner (dave.garner@iowa.gov); George Coble (gacoble@aol.com); Dennis, Cynthia; Melanie Steffens (Melanie.Steffens@iowa.gov); Wayne Clayton (wayne.clayton@linncounty.org); Scott Haney (n0gud@arrl.net); Brian Keath - American Red Cross (brian.keath@redcross.org); DeBrower, Brad
Cc: steve.okonek@linncounty-ema.org
Subject: 2020 DAEC Training Offer

NEXTERA ENERGY DAEC RADIOLOGICAL PREPAREDNESS TRAINING PARTNERSHIP



NEP 2020-003 (email)

TO: Linn County Public Health Department, Linn County Community Services, Linn County Human Resource Management, Civil Air Patrol, Amateur Radio, American Red Cross, Larry Nelson Center, Anchor Center, Hinzman Center, LIFTS, Cedar Rapids Transit

NextEra Energy Duane Arnold in coordination with training partners HSEMD, and Benton and Linn County Emergency Management Agencies is pleased to once again offer annual training for personnel needing training to implement the Benton and Linn County Radiological Emergency Response Plans.

COURSE OFFERINGS

The type and length of training that has been identified for your organization is:

Emergency Worker Training is a one-hour course delivered in-class room or via an on-line course

ARRANGING FOR IN-CLASS ROOM TRAINING

Training can be delivered during the months April through September 2020

Please select up to 3 potential dates during these months and in a reply email or fax back to me the following information:

1. Name of organization
2. Three dates and times for training
3. Contact Person/Title with contact information
4. Estimated number of participants and location for training (include address)

Send response to:

Rebecca Palmer, Senior Emergency Preparedness Coordinator
Email: Rebecca.palmer@nee.com
Fax: 319-851-7813

IF YOU WANT TO DECLINE TRAINING

Note in the reply email or faxed response ☐ We would prefer NOT to schedule training this year

To help us meet our reporting requirements please respond by Feb. 12, 2020.

IF YOU WOULD LIKE YOUR PERSONNEL TO TAKE THE ON-LINE COURSE

- 1) Go to <http://iowarep.training-source.org>
- 2) Click on "Take the Radiological Emergency Preparedness Training"
- 3) Click on "Launch this Course"
- 4) Sign-in or Create New Account

NOTE:

All trainees must register individually to receive course credit. A completion certificate can be printed at the end of the course.

Rebecca Palmer

Senior EP Coordinator / NextEra Energy Duane Arnold / 3277 DAEC Rd., Palo, IA. 52324

(B) 319-851-7010 / (C) 319-310-7982 / Fax 319-851-7813 / rebecca.palmer@nee.com

Palmer, Rebecca

From: Palmer, Rebecca
Sent: Monday, January 13, 2020 9:29 AM
To: travis.beckman@jecc-ema.org; Kim Elder (kelder@marshallcountyia.gov); Rick Wulfekuhle; Dave Donovan - Scott County Emergency Management (david.donovan@scottcountyiowa.com)
Subject: 2020 Host County Training Offer

NEXTERA ENERGY DAEC RADIOLOGICAL PREPAREDNESS TRAINING PARTNERSHIP



NEP 2020-003 (email)

TO: ALL HOST COUNTY EMERGENCY MANAGEMENT AGENCY COORDINATORS

NextEra Energy Duane Arnold in coordination with training partners HSEMD, and Benton and Linn EMAs are pleased to offer annual training for personnel and organizations identified in your Host County Radiological Emergency Response Plans training matrix.

Your agency will be the coordinating body for these offers of training. For example, if on the training matrix found in your REP Plan there are organizations that need to be offered Traffic Control training you can forward this offer letter onto the appropriate person within the organization. In the case of EOC training (which includes message center training) you will make the decision for your EOC participants whether the offer will be accepted.

COURSE OFFERINGS

The type and length of trainings that have been identified for your organization are:

- Emergency Response Plan Overview - Self-Study Guide or on-line Basic Emergency Worker Training On-line Course (directions to access this course are found later in this email)
- Emergency Operations Training, which includes Message Control – is a 1 to 2 hour in-class room course, but we encourage making arrangement with HSEMD for their 1-day course
- Traffic Control – a 1 to 1.5 hour in-class room course
- Radiological Monitoring and Decontamination – this can be delivered during your scheduled Walk Through or independently in class room.

ARRANGING FOR TRAINING

Please contact Rebecca Palmer at 319-851-7010 or rebecca.palmer@nee.com to make training arrangements - to help us meet our reporting requirements **please respond by February 12, 2020.**

IF YOU WANT TO DECLINE TRAINING

Note in the reply email or faxed response ____ We would prefer NOT to schedule training this year

DIRECTION TO ACCESS ON-LINE COURSE (All trainees must register individually to receive credit)

1) Go to <http://iowarep.training-source.org>

- 2) Click on "Take the Radiological Emergency Preparedness Training"
- 3) Click on "Launch this Course"
- 4) Sign-in or Create New Account

NOTE: There may be a way to have a department's Training Officer conduct a group on-line session. If this option is appropriate contact Rebecca and she can go over this option in more detail.

Rebecca Palmer

Senior EP Coordinator / NextEra Energy Duane Arnold / 3277 DAEC Rd., Palo, IA. 52324
(B) 319-851-7010 / (C) 319-310-7982 / Fax 319-851-7813 / rebecca.palmer@nee.com

Palmer, Rebecca

From: Palmer, Rebecca
Sent: Monday, January 13, 2020 10:43 AM
To: 'Andy Olesen - CRFD (a.olesen@cedar-rapids.org)'; 'Nesslage, Mike (mnesslage@hiawatha-iowa.com)'; 'Deb Krebill (dkrebill@cityofmarion.org)'; 'Riniker, Doug'; 'Keith M. Rippy'; 'Doug Felton (cpfiredept@fmtcs.com)'; 'Mike Tachau (secretary@centerpointambulance.com)'; 'Dan Rammelsberg - Atkins Fire Department (atkinsfd@netins.net)'; 'Jonathan Ron (j.ron@flycid.com)'; 'Boots, Brian (bboots@robinsfire.com)'; 'Dave Charlier (charlier@fmtcs.com)'; 'Ulrich, Tom (tom.ulrich@linncounty-ema.org)'; 'Kale McBurney (monroetwpfiredept@live.com)'; 'James Seely - Palo Fire Dept. (palofire@gmail.com)'; 'ufdchief@fmtcs.com'
Subject: DAEC 2020 Training Offer

NEXTERA ENERGY DAEC RADIOLOGICAL PREPAREDNESS TRAINING PARTNERSHIP



NEP 2020-003 (email)

TO: Fire Departments Listed in the DAEC Catastrophic Fire Plan as Initial Response Units

Energy Duane Arnold in coordination with training partners HSEMD, and Benton and Linn County Emergency Management Agencies is pleased to once again offer annual training for personnel needing training to implement the Linn and Benton County Radiological Emergency Response Plans.

COURSE OFFERINGS

The type and length of training that has been identified for your organization is:

Emergency Worker Training is a one-hour course delivered in-class room or via an on-line course

A high level overview of the DAEC Catastrophic Event Plan will also be included in the basic training

ARRANGING FOR IN-CLASS ROOM TRAINING DELIVERY

Training can be delivered during the months of February through September.

Please select up to 3 potential dates during these months and in a reply email to me (or you can fax the response to 319-851-7813) please provide the following information:

1. Name of organization
2. Three dates and times for training
3. Contact Person/Title with contact information
4. Estimated number of participants and location for training (include address)

IF YOU WANT TO DECLINE TRAINING

Note in the reply email or faxed response ____ We would prefer NOT to schedule training this year

To help us meet our reporting requirements please respond by Feb. 12, 2020.

Faxed responses should be sent to 319-851-7813

IF YOU WOULD LIKE YOUR FIRE DEPARTMENT PERSONNEL TO TAKE THE ON-LINE COURSE

Note that this is a great option for new hires for those departments that schedule in-class room training every two to four years

- 1) Go to <http://iowarep.training-source.org>
- 2) Click on "Take the Radiological Emergency Preparedness Training"
- 3) Click on "Launch this Course"
- 4) Create a "New Account" or "Sign-in" if you already have an account

NOTE:

- All trainees must register individually to receive course credit. A completion certificate can be printed at the end of the course.
- There may be a way to have a department's Training Officer or Administrator conduct a group on-line session. If this option is appropriate contact Rebecca and she can go over this option in more detail.

TRAINING PROVIDER ASSIGNMENTS FOR IN-CLASS ROOM DELIVERY

- ☐ Training for fire department personnel in Benton County will typically be delivered by Scott Hansen, Benton EMA Coordinator
- ☐ Training for fire department personnel in Linn County will be delivered by the DAEC - EP, Safety, or Fire Brigade personnel.

Rebecca Palmer, Senior Emergency Preparedness Coordinator
NextEra Energy Duane Arnold L.L.C
3313 DAEC Rd., Palo, Iowa 52324
(Cell) 319-310-7982
(Work) 319-851-7010
(Fax) 319-851-7813

Palmer, Rebecca

From: Palmer, Rebecca
Sent: Monday, January 13, 2020 10:37 AM
To: 'Steve Graham (alburnettfirechief@yahoo.com)'; 'James O'Leary (olearyjames36@gmail.com)'; 'Brian Rowe (rbm_319@yahoo.com)'; 'John Hasler (johnhaslertrucking@yahoo.com)'; 'Joe Fiala (troymillsfire@aol.com)'; 'Bill Erb (berb@ci.coralville.ia.us)'; 'Bill Smith (smithccf@iowatelecom.net)'; 'Zbanek, Randy'; 'Mike Sankot (spank701@southslope.net)'; 'Brandon Siggins (lisbonfiredepartment@yahoo.com)'; 'Nathan Goodlove - Mt. Vernon Fire Department (ngoodlove.mvfd@gmail.com)'; 'Mike Stoeffler (captmrc@mchsi.com)'; 'JMFD@southslope.net'
Subject: DAEC 2020 Training Offer

NEXTERA ENERGY DAEC RADIOLOGICAL PREPAREDNESS TRAINING PARTNERSHIP



NEP 2020-03 (email)

TO: Fire Departments Listed in the DAEC CAT Plan as Secondary Response Units

Energy Duane Arnold in coordination with training partners HSEMD, and Benton and Linn County Emergency Management Agencies is pleased to once again offer annual training for personnel needing training to implement the Linn and Benton County Radiological Emergency Response Plans.

COURSE OFFERINGS

The type and length of training that has been identified for your organization is:

Emergency Worker Training is a one-hour course delivered in-class room or via an on-line course
A high level overview of the DAEC Catastrophic Event Plan will also be included in the basic training

ARRANGING FOR IN-CLASS ROOM TRAINING DELIVERY

Training can be delivered during the months of February through September 2020.

Please select up to 3 potential dates during these months and in a reply email to me (or you can fax the response to 319-851-7813) please provide the following information:

1. Name of organization
2. Three dates and times for training
3. Contact Person/Title with contact information
4. Estimated number of participants and location for training (include address)

IF YOU WANT TO DECLINE TRAINING

Note in the reply email or faxed response _____ We would prefer NOT to schedule training this year

To help us meet our reporting requirements please respond by February 12, 2010

Faxed responses should be sent to 319-851-7813

IF YOU WOULD LIKE YOUR FIRE FIGHTERS TO TAKE THE ON-LINE COURSE

Note that this is a great option for new hires for those departments that schedule in-class room training every two to four years

- 1) Go to <http://iowarep.training-source.org>
- 2) Click on "Take the Radiological Emergency Preparedness Training"
- 3) Click on "Launch this Course"
- 4) Create a "New Account" or "Sign-in" if you already have an account

NOTE:

- All trainees must register individually to receive course credit. A completion certificate can be printed at the end of the course.
- There may be a way to have a department's Training Officer or Administrator conduct a group on-line session. If this option is appropriate contact Rebecca and she can go over this option in more detail.

TRAINING PROVIDER ASSIGNMENTS FOR IN-CLASS ROOM DELIVERY

- ☐ Training for fire department personnel in Benton County will typically be delivered by Scott Hansen, Benton EMA Coordinator
- ☐ Training for fire department personnel in Linn County will typically be delivered by the DAEC - EP Safety or Fire Brigade personnel

Rebecca Palmer

Senior EP Coordinator / NextEra Energy Duane Arnold / 3277 DAEC Rd., Palo, IA. 52324

(B) 319-851-7010 / (C) 319-310-7982 / Fax 319-851-7813 / rebecca.palmer@nee.com

Palmer, Rebecca

From: Palmer, Rebecca
Sent: Tuesday, January 14, 2020 3:26 PM
To: matt.hidlebaugh@thementornetwork.com; Steffen, Dawn; Sweet, Elaine; Wise, Mary ;
Saddoris, Carol; Estle, Mary
Subject: 2020 DAEC Training Offer

NEXTERA ENERGY DAEC RADIOLOGICAL PREPAREDNESS TRAINING PARTNERSHIP



NEP 2020-003 (email)

TO: Group Home Administrators

NextEra Energy Duane Arnold in coordination with training partners HSEMD, and Benton and Linn County Emergency Management Agencies is pleased to once again offer annual training for personnel needing training to implement the Benton and Linn County Radiological Emergency Response Plans.

COURSE OFFERINGS

The type and length of training that has been identified for your organization is:

Emergency Worker Training is a one-hour course delivered in-class room or via an on-line course

ARRANGING FOR IN-CLASS ROOM TRAINING DELIVERY

Training can be delivered during the months of **May through August 2020.**

Please select up to 3 potential dates during these months and in a reply email to me (or you can fax the response to 319-851-7813) please provide the following information:

1. Name of organization
2. Three dates and times for training
3. Contact Person/Title with contact information
4. Estimated number of participants and location for training (include address)

IF YOU WOULD LIKE YOUR PERSONNEL TO TAKE THE ON-LINE COURSE

- 1) Go to <http://iowarep.training-source.org>
- 2) Click on "Take the Radiological Emergency Preparedness Training"
- 3) Click on "Launch this Course"
- 4) Sign-in or Create New Account

NOTE:

- All trainees must register individually to receive course credit. A completion certificate can be printed at the end of the course.

IF YOU WANT TO DECLINE TRAINING

Note in the reply email or faxed response ☐ We would prefer NOT to schedule training this year

To help us meet our reporting requirements **please respond by Feb. 12, 2020**

NEXTERA ENERGY DAEC RADIOLOGICAL PREPAREDNESS TRAINING PARTNERSHIP



NEP 2020-003 (Mail)

TO: Care Facilities Administrators

NextEra Energy Duane Arnold in coordination with training partners HSEMD, and Benton and Linn County Emergency Management Agencies is pleased to once again offer annual training for personnel needing training to implement the Benton and Linn County Radiological Emergency Response Plans.

COURSE OFFERINGS

The type and length of training that has been identified for your organization is:

Emergency Worker Training is a one-hour course delivered in-class room or via an on-line course

ARRANGING FOR IN-CLASS ROOM TRAINING DELIVERY

Training can be delivered during the months of **March through September 2020**.

Please select up to 3 potential dates during these months and in a reply email to me (or you can fax the response to 319-851-7813) please provide the following information:

1. Name of organization
2. Three dates and times for training
3. Contact Person/Title with contact information
4. Estimated number of participants and location for training (include address)

IF YOU WOULD LIKE YOUR PERSONNEL TO TAKE THE ON-LINE COURSE

- 1) Go to <http://iowarep.training-source.org>
- 2) Click on "Take the Radiological Emergency Preparedness Training"
- 3) Click on "Launch this Course"
- 4) Sign-in or Create New Account

NOTE:

- All trainees must register individually to receive course credit. A completion certificate can be printed at the end of the course.

IF YOU WANT TO DECLINE TRAINING

Note in the reply email or faxed response ☐ We would prefer NOT to schedule training this year

To help us meet our reporting requirements please respond by Feb. 12, 2020

Faxed responses should be sent to 319-851-7813

Email responses can be sent to Rebecca.Palmer@nexteraenergy.com

Mailed Responses can be sent to Rebecca Palmer, Snr. EP Coordinator, NextEra Energy Duane Arnold, 3277 DAEC Rd., Palo, IA 52324

If you have questions please contact:

Rebecca Palmer, Senior Emergency Preparedness Coordinator, NextEra Energy Duane Arnold

Email: Rebecca.palmer@nexteraenergy.com

Tele: 319-851-7010

Administrator
Crestview Acres
1485 Grand View Ave.
Marion, IA 52302

Administrator
Garnett Place
202 35th St. Dr. SE
Cedar Rapids, IA 52403

Administrator
Living Center East
1220 5th Ave. SE
Cedar Rapids, IA 52403

Administrator
Milestone Adult Day Care
1725 O Ave NW
Cedar Rapids, IA 52405

Administrator
Prairie Hills Senior Living
2903 F. Ave. NW
Cedar Rapids, IA 52405

Administrator
Ridgeview Assisted Living
2975 F Ave. NW
Cedar Rapids, IA 52405

Administrator
Summit Point Living
3505 English Glen Ave.
Marion, IA 52302

Administrator
Villages at Marion
365 Marion Blvd.
Marion, IA 52302

Administrator
St. Luke's Living Center West
1050 4th Ave. SE
Cedar Rapids, IA 52403

Administrator
Manor Care Health Services
1940 First Ave NE
Cedar Rapids, IA 52402

Administrator
Cottage Grove
2115 First Ave. SE
Cedar Rapids, IA 52403

Administrator
Winslow House
3456 Indian Creek Road
Marion, IA 52302

Administrator
Asbury House
378 27th Ave. SW
Cedar Rapids, IA 52404

Administrator
Methwick - Arbour Place
1224 13th St NW
Cedar Rapids, IA 52405

Administrator
Methwick – Custom Care
12224 13th St. NW
Cedar Rapids, IA 52405

Administrator
Sacred Heart Convent
1125 Prairie Dr. NE
Cedar Rapids, IA 52402

Administrator
Westridge Care Center
3131 F. Ave. NW
Cedar Rapids, IA 52405

Administrator
Winslow House Care Center
3465 Indian Creek Rd.
Marion, IA 52302

Administrator
Milestones Adult Day Health Center
1725 O Ave. NW
Cedar Rapids, IA 52405

Administrator
Meth-Wick
1224 13th St. NW
Cedar Rapids, IA 52405

Palmer, Rebecca

From: Palmer, Rebecca
Sent: Monday, January 13, 2020 10:16 AM
To: 'Jacobi Feckers'; 'Walton, Kent'; 'Mary Jo Pipkin'; 'Audrey Reid'; 'Janice Tague'; 'Debbie Crosser'; 'Lisa Elwick'; 'David Synder'; 'Balbus-Kokontis, Theresa'; 'Matt Giorgio'; 'kathy ely'; 'Pam Guilford'; 'Marilyn Patterson'; 'Robin Mixdorf'; 'Susan Schmitt'
Cc: steve.okonek@linncounty-ema.org
Subject: 2020 DAEC Training Offer

NEXTERA ENERGY DAEC RADIOLOGICAL PREPAREDNESS TRAINING PARTNERSHIP



NEP 2020-003 (email)

TO: Care Facilities Administrators

NextEra Energy, Duane Arnold in coordination with training partners HSEMD, and Benton and Linn County Emergency Management Agencies is pleased to once again offer annual training for personnel needing training to implement the Benton and Linn County Radiological Emergency Response Plans.

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If you have questions please contact:

Rebecca Palmer, Senior Emergency Preparedness Coordinator, NextEra Energy Duane Arnold

Email: Rebecca.palmer@nexteraenergy.com

Tele: 319-851-7010

Rebecca Palmer

Senior EP Coordinator / NextEra Energy Duane Arnold / 3277 DAEC Rd., Palo, IA. 52324

(B) 319-851-7010 / (C) 319-310-7982 / Fax 319-851-7813 / rebecca.palmer@nee.com

DAEC Siren Monthly and Annual Functionality Report		2020											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Siren Operated by:		Linn	Linn	Benton	Benton	Linn	Linn	Benton	Benton	Linn	Linn	Benton	Benton
Repeater used		Sheriff	EMA	EMA	Sheriff	Sheriff	EMA	EMA	Sheriff	Sheriff	EMA	EMA	Sheriff
		Benton	Linn	Benton	Linn	Linn	Benton	Linn	Benton	Linn	Benton	Linn	Benton
Sirens reporting back white		16E	23Q	5D				7D	14D	8C	23U		23Q
(White means Siren is functional but it is showing that there may be a minor problem with it. For example, drivers, amplifiers, etc. To be repaired by DAEC Maintenance during normal weekly scheduled Siren maintenance)		23Q	21A							20A	23Y		23Y
		18D								20C	13E		05D
										21H			14D
										23W			
										23X			
										16G			
										23J			
										23Y			
										21K			
										22B			

*** Signifies that this siren has enough significant multiple problems to warrant declaring inop.

TABLE 2

DAEC SIREN - MONTHLY TEST RESULTS and OPERABILITY

$$\% \text{ Operability} = \frac{\# \text{ Maximum tests}_1 - \# \text{ failed test}_2 - \# \text{ no data}_3}{100} \times 100$$

Maximum tests - # no data

$$= \frac{(1728 - 0 - 0)}{1728 - 0} \times 100$$

$$= \frac{1728}{1728} \times 100$$

$$= 100.0\%$$

- 1) # Maximum Siren tests are based on the # of sirens tested times the months in operation.
- 2) Failed tests are sirens that are declared inoperable at the time of the monthly test.
- 3) # Sirens with no data are sirens in which no data could be collected.