

# Emergency Planning for the Quad Cities Area



## Important Safety Information For Your Community 2016/2017

This brochure provides information on the Quad Cities Generating Station and actions you may be asked to take in the unlikely event of an accident 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. The brochures are updated and distributed annually.

# 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 brochure, with your location marked on the map, in your emergency kit. 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 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. If you would need transportation in an emergency, use the attached reply card to notify local authorities now.

## Pets

Shelter for evacuated pets will be available. You will receive pet sheltering information when you arrive at the Reception and Congregate Care Center for your area. Service animals are allowed in the Reception and Congregate Care Centers.

## Potassium Iodide (KI)

The use of potassium iodide (KI) is an additional protective action. KI is a nonprescription drug used to help protect the thyroid when there is risk that a person might be exposed to a potentially harmful amount of radioactive iodine. Radioactive iodine is just one of many radioisotopes that could be released. Consult your physician if you have concerns about the safety of KI for your child or yourself. While KI, when taken properly, can prevent the uptake of radioactive iodine into the thyroid, it cannot reduce or prevent the total body exposure that may occur as a result of being in the presence of radioiodine and other radioisotopes released during a nuclear incident. As such, evacuation and sheltering in place are the most effective and preferred recommended protective actions when advised by the appropriate state and local authorities.



Information on the Illinois KI distribution program can be found at [www.ready.illinois.gov](http://www.ready.illinois.gov), or send an e-mail to [ema-il-ki@illinois.gov](mailto:ema-il-ki@illinois.gov)

# What to do in an Emergency

## Monitor and Prepare

Tune your radio or TV to one of the stations listed in this brochure. 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 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 broadcast 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. If traveling, close windows and ventilation that brings in outside air.

## If Instructed to Evacuate

In an evacuation, people in the affected area would be asked to go to local reception centers to be monitored and registered — after which they could 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.

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 "Packing Checklist.") Evacuate everyone in your home, following directions given on the radio. These routes 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.

### **Shadow Evacuation**

Persons should only evacuate when instructed to do so. Evacuation of individuals not within the declared evacuation area could impede evacuation traffic flow. Monitor the radio and prepare to follow instructions.

### **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 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.





*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

### Illinois Reception Communities

#### Rock Island

- Rock Island High School, 1400 25th Avenue
- Illinois 84 south to I-80 east to Illinois 5 west
  - 94th Avenue north to I-88 west to Illinois 5 west

#### Morrison

- Morrison High School, 643 Genesee Avenue
- Illinois 84 north to U.S. Highway 30 east
  - I-88 east to Illinois 78 north

### 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.

#### 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.

### 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 & 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.

**A** Fission generates heat that **B** boils water for the steam that runs the **C** turbines, which produce the **D** electricity that we all use – making, for instance, **E** toast for breakfast.

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 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.

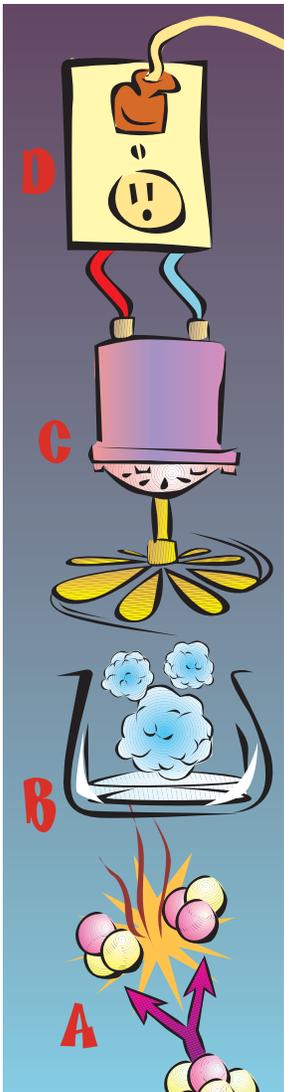
## WHAT ARE THE REAL RISKS OF NUCLEAR POWER PLANTS?



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.

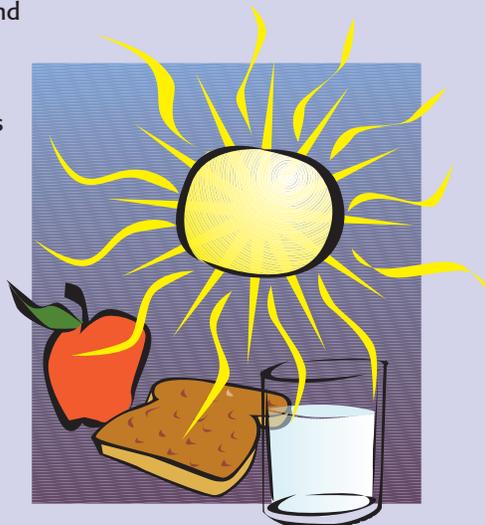


# WHAT IS RADIATION?

Essentially, radiation is a form of energy that can travel through the air, just like light, heat or radio waves. Small amounts of radiation are naturally generated by different elements in the environment. Food, water, air and sunlight all expose us daily to tiny amounts of radiation. Uranium is simply a more powerful source of radiation which, when used properly, can be highly beneficial.

Radiation is measured in rems or in millirems (thousandths of a rem). On average, a person living in the Midwest 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.



FOR MORE INFORMATION, PLEASE VISIT OR CONTACT:

[www.nrc.gov/about-nrc/radiation.html](http://www.nrc.gov/about-nrc/radiation.html)

[www.nei.org](http://www.nei.org)

[www.ready.gov](http://www.ready.gov)

[www.illinois.gov/iema](http://www.illinois.gov/iema)

[www.homelandsecurity.iowa.gov](http://www.homelandsecurity.iowa.gov)

[www.bt.cdc.gov/radiation](http://www.bt.cdc.gov/radiation)

[www.hps.org/publicinformation/RadTerms](http://www.hps.org/publicinformation/RadTerms)

**Illinois Emergency  
Management Agency**

1035 Outer Park Drive  
Springfield, Illinois 62704-4462  
(217) 782-6594

**Iowa Homeland Security &  
Emergency Management**

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

# Radio Stations

## Rock Island County, Illinois

FM 93.9, WYEC

## Whiteside County, Illinois

AM 1390, KCLN

FM 94.7, MaC

‡on-air 24 hours

## Scott County, Iowa

FM 103.7, WLLR ‡

AM 1420, WOC ‡

## Clinton County, Iowa

AM 1340, KROS ‡

### Classification of Accidents

Should an accident occur at the Quad Cities Generating Station, there are four accident classifications you might hear reported on the radio or TV, or read about in the newspapers.

**Unusual Event:** Events are in process 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 offsite response or monitoring are expected unless further degradation of safety systems occurs.

**Alert:** Events are in process 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 EPA Protective Action Guideline exposure levels.

**Site Area Emergency:** Events are in process or have occurred which involve an actual or likely major failure 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:** Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity or security events that result in an actual loss of physical control of the facility. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels beyond the site boundary.

## Packing Checklist

**Medical Supplies:** Prescribed medications, first aid kit, eyeglasses, hearing aids

**Money:** Cash, credit and ATM cards

**Important Documents:** Personal address book or papers you may need in an emergency

**Clothing:** Including coats, shoes, outerwear

**Personal Hygiene Items:** Soap, shampoo, shaving kit, dental, eye care and sanitary products

**Baby Needs:** Bottles, formula, diapers, favorite toy, clothes, blanket, car seat

**Foods for Special Diets**

**Pet Related Supplies**

# Nuclear Power and Public Safety

## Benefits and Potential Risks of Nuclear Power

Used properly, nuclear fission (the “splitting” of uranium atoms) is a safe, dependable source of electricity. It is reasonable, though, to be concerned about what might happen in the event of a serious incident at a power plant. Let’s look at the two most common concerns: that the reactor could explode or that neighboring communities could be contaminated with radiation.

First, a power plant reactor cannot produce a nuclear explosion. The uranium fuel contains very little fissionable material. As for radiation, the complex structure of a nuclear power plant is designed to prevent the release of radiation. A serious incident, however, could allow some radiation to escape, most likely as a cloud, or “plume,” of radioactive steam that would be carried away from the plant by the wind. The degree of risk to the public would depend on the size of the plume, the direction and speed of the wind, and other factors.



## **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. First, control room operators at the power plant would immediately notify local authorities. At the same time, special teams would begin testing radiation levels outside the plant and throughout surrounding areas. If necessary, area officials would declare an emergency and take the following measures to ensure public safety.

***Warning Sirens.*** Communities across the U.S. use outdoor sirens to warn of tornado, severe weather or other threatening events. The sirens generate a loud, continuous pitch for at least three minutes. In Illinois and in Scott and Clinton Counties, Iowa, sirens are tested on the first Tuesday of each month at 10:00 a.m. If you hear sirens and are not sure what they mean, tune to one of the radio stations listed in this brochure.

***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 may 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 danger unnecessarily.

**NOTE:** If you or someone you know might not respond to warning sirens or radio broadcasts due to impaired hearing OR are transit-dependent, please use the attached reply card to notify local authorities now.

**NOTE:** If time permits and 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 have not filled out the reply card but 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.



*To help ensure your safety, state and local governments have developed plans for responding to emergencies such as fires, chemical spills or severe weather in your area. These plans give specific attention to people who — like you — live, work or visit within ten 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.*

*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 accident, much of the information is useful in any emergency.*

*If you require additional brochures or information, now or at anytime during the year, visit the following website and scroll down to the fact sheet and emergency planning. An electronic version of the brochure can be found there. Feel free to print as many as you require.*

## Exelon Generation



@exelonuclear

<http://www.exeloncorp.com/quadcities>



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

### Illinois Emergency Management Agency

1035 Outer Park Drive  
Springfield, Illinois 62704  
(217) 782-6594  
[www.illinois.gov/iema](http://www.illinois.gov/iema)

### 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 Services and Disaster 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](http://www.homelandsecurity.iowa.gov)

### Clinton County Emergency Management Agency

Clinton County Courthouse  
612 North 2nd Street  
P.O. Box 2957  
Clinton, Iowa 52733-2957  
(563) 242-5712  
[www.clintoncounty-IA.gov/EMA](http://www.clintoncounty-IA.gov/EMA)

### Scott County Emergency Management Agency

1100 East 46th Street  
Davenport, Iowa 52807  
(563) 484-3050

[www.scottcountyiowa.com/ema](http://www.scottcountyiowa.com/ema)

# People with Functional/ Transportation Needs

The information gathered by this survey is CONFIDENTIAL. Those with impaired sight, hearing or mobility may have difficulty responding to an emergency.

If you, or someone you know who lives in the circled area on the map would need special or transportation assistance in an emergency, please notify area authorities today. Simply fill out and mail the attached reply card. The card is postage-paid, so you don't even need a stamp.

This information is updated annually. Please return this survey even if you have previously responded. If you prefer you may contact your local Emergency Management Agency directly. Area authorities are listed elsewhere in this brochure.

**Please check yes or no for the following questions:**

Fold Here

- 1 Do you have a hearing impairment that would make it difficult to hear outdoor warning sirens or other emergency notifications?  Yes  No
- 2 Do you have a medical or physical condition that would make it difficult to evacuate in an emergency?  Yes  No
- 3 Are you without any personal means of transportation, such as a car or truck, to evacuate in an emergency?  Yes  No

Number of people in household \_\_\_\_\_

- 4 Would you need medical attention outside your home?  Yes  No

Name .....

Address .....

City & Township .....

Telephone Number .....

*Please provide your address, city and township, and telephone number.*