



# **Emergency Planning for the Quad Cities Area**

**Important Safety Information for  
Your Community**

# **2018/2019**

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 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. 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 the affected area 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 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.

# 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 danger unnecessarily.

### **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](http://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 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** — 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 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 off-site 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** 93.9, KQCJ

**FM** 90.3, WVIK

### Whiteside County, Illinois

**AM** 1390, KCLN

**FM** 94.7, KMCM

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 – making, for instance, 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 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](http://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 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)

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