

SEQUOYAH 2017

EMERGENCY INFORMATION: STATE OF TENNESSEE, CLEVELAND/BRADLEY COUNTY EMERGENCY
MANAGEMENT AGENCY, HAMILTON COUNTY EMERGENCY SERVICES, TENNESSEE VALLEY AUTHORITY



tva.com/prepare

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FOR QUESTIONS ABOUT THIS MATERIAL

During emergency operations, additional telephone numbers will be published and broadcast over the Emergency Alert System (EAS).

Tennessee Valley Authority
423-843-7839
 (inside local calling area)
800-467-1388
 (outside calling area)

Hamilton County
Emergency Services
423-209-6900

Cleveland/Bradley County
Emergency Management
Agency
423-728-7289

Tennessee Emergency
Management Agency
(NON-EMERGENCY)
615-741-0001

For alternate formats of this document, call 865-632-6824 and allow five workdays for processing.



Dear Sequoyah Neighbor,

As in the past, the Tennessee Valley Authority, the state of Tennessee and your local emergency management agency have provided you with a calendar that contains important information about Sequoyah Nuclear Plant.

This calendar contains updated information reflecting additions and changes over the past year. This information will help you better understand Sequoyah and the emergency plans that have been developed for your protection. Please keep the calendar in a convenient place and readily available. Any previous calendars or brochures concerning emergency information or instructions about Sequoyah should be discarded.

We realize that some Sequoyah neighbors would require special assistance in the unlikely event of an emergency at the plant. Therefore, we have included a card for you to fill out and return if such assistance is needed. For your convenience, the card has been pre-addressed, and the postage has been paid. In order for emergency officials to maintain a current list of persons who would need assistance, this card must be returned immediately, even though you may have sent a card from a previous calendar or brochure.

If you have any questions about this material, please call one of the numbers listed on this page, and we will be glad to answer them for you.



Christopher Schwarz
 Site Vice President
 Sequoyah Nuclear Plant
 Tennessee Valley Authority



Patrick C. Sheehan
 Director
 Tennessee Emergency Management Agency
 State of Tennessee

The Prompt Notification System

We expect Sequoyah Nuclear Plant to operate safely. However, if an emergency occurs at the plant, TVA will inform state officials at once.

In-depth emergency plans have been prepared by TVA, the state of Tennessee and your local emergency management agency. These plans are in place to protect your health and safety, and this calendar is a part of those plans because we want you to be prepared, know what the sirens mean, and know what you should do if you hear them.

If needed, the Prompt Notification System will be activated quickly to inform the public of any potential threat. The Prompt Notification System uses sirens and tone-alert radios to notify the public to tune their radios or televisions to an Emergency Alert System (EAS) station. The EAS station will provide information and emergency instructions for the public to follow.

The Emergency Alert System includes local radio and television stations, NOAA weather radio and the cable-TV interrupt system. Fixed sirens provide coverage out to approximately 10 miles around Sequoyah. If you hear the sirens, tune to a local radio or television station for news and instructions.

The sirens and other warning systems are operated by the Tennessee Emergency Management Agency (TEMA) and may be used to warn residents of an emergency other than an incident at Sequoyah. For example, the sirens may be used to warn the public of floods, tornadoes or other natural or man-made disasters.

If you note a problem with one of the sirens, please notify your county or state emergency management agency using the number listed on page 1.

Nixle Community Information Service

The Tennessee Emergency Management Agency (TEMA) is adopting an online messaging service to enhance its ability to provide public warnings in a timely fashion. This will not replace the Prompt Notification System, but will supplement our current ability to keep the public informed.

Nixle is a free, secure online messaging system that will allow TEMA to provide information to residents instantly via cell phone text message, website and/or email. Subscribers can choose the way they would like to receive alerts.

There is NO spam and NO hidden cost. Standard text messaging rates do apply for cell phone messages.

When citizens receive information from our agency via Nixle, they know it can be trusted.

Nixle is a community information service provider created exclusively to provide secure and reliable communications. It is the first authenticated and secure service that connects government agencies and residents in real time by delivering information to geographically targeted consumers over their cell phones (via text messages), by email and via the website.

To register or customize your alerts:

- Log in to www.nixie.com and follow instructions provided.

You will now instantly receive alerts and messages sent by TEMA that affect the locations you have selected.

Bradley County residents can also sign up by texting CBCEMA to 8887777.



If you hear the sirens

Check it out – it could be only a test. Siren tests occur in your area on the first Wednesday of each month at noon. If there is severe weather in the area at the time of a scheduled test, the sirens may not be tested.

Remember: Hearing a siren or tone-alert radio does not mean you should evacuate. It means turn on your radio or television and listen for instructions.

Tune to your local radio or television station and listen for details. WUSY-FM (100.7) in Chattanooga is the primary EAS station in the area and is monitored by other stations. A real warning could mean fire, tornado, chemical spill, nuclear accident or other emergency.

Most radio and television stations in the area participate in the EAS and will be making announcements. NOAA weather radio (162.55 MHz) will instruct listeners to tune to one of these stations.

Check on your neighbors.

Do not use the phone unless absolutely necessary. The phone lines need to be open for emergency workers. Do not call 911 for information if you hear the sirens.

If the warning involves an incident at Sequoyah, you might be advised to go indoors and close all windows, doors and other sources of outside air. You may be advised to monitor and prepare or you may be advised to leave (evacuate) your area. See additional information at the right.

If told to “Go Inside – Stay Inside”

This means go inside the nearest safe building or structure (building, home or business) and stay inside until further notification.

If you are advised to take shelter indoors

- Go indoors and stay there.
- Close all doors and windows.
- Shut off all systems that draw outside air into the house such as furnaces, air conditioners, fireplace vents and dampers.
- Stay tuned to your local EAS radio or television station. These are the best sources for information and instruction.
- The primary EAS station for the area is WUSY-FM (100.7).
- Prepare to evacuate.
- If you must go outside, protect your breathing. Place a damp cloth or towel over your nose and mouth.
- If you are told that it is safe to go outside, try to check on your neighbors. They may not have heard the announcements.
- Do not use the phone unless you have a special emergency and need help. Leave the lines open for official business.

If you are advised to monitor and prepare

This is a precautionary action to advise the public within the Emergency Planning Zone (EPZ) that a serious emergency at the nuclear plant exists and you should monitor the situation and prepare for the possibility of evacuation, sheltering in place or taking other protective actions.

If you are asked to leave (evacuate) the area

- Stay calm and do not rush. Evacuation can work properly and reduce your risk only if you act safely and calmly.
 - Take a few items with you. Gather personal items you or your family might need, using the checklist on page 8.
 - Turn off lights, appliances and water.
 - As you leave, lock your house and tie a white cloth or white towel on your front door. This sign will let emergency workers know that everyone in your home has left the area.
 - Ask your local emergency management agency for pet evacuation procedures during an emergency.
 - Use your own transportation or, if possible, make arrangements to ride with a neighbor. Keep car windows and air vents closed and listen to an EAS radio station.
 - Use the map on page 4 of this booklet to find the sector in which you live and the evacuation route you should follow. Write this information in the space provided next to the map.
 - Follow the evacuation routes shown on the map. If you need a place to stay, shelter information points will be located along the controlled evacuation routes.
- If an evacuation is underway, members of the public who are NOT directed to evacuate should remain off the roadways to allow the evacuation to proceed.**
- While you are away**
- Local police officers will secure the evacuated areas to protect homes and businesses.
 - ONLY authorized persons will be allowed into the evacuated areas.
 - Officials of the Tennessee Department of Radiological Health will monitor affected areas. You will be notified when it is safe to return home.



Sequoyah evacuation map and routes

If an evacuation is ordered, it is important that you follow the evacuation routes shown on the map.

The 10-mile Emergency Planning Zone (EPZ) is divided into sectors. For quick reference, locate the sector in which you live or work and write it in the space below.

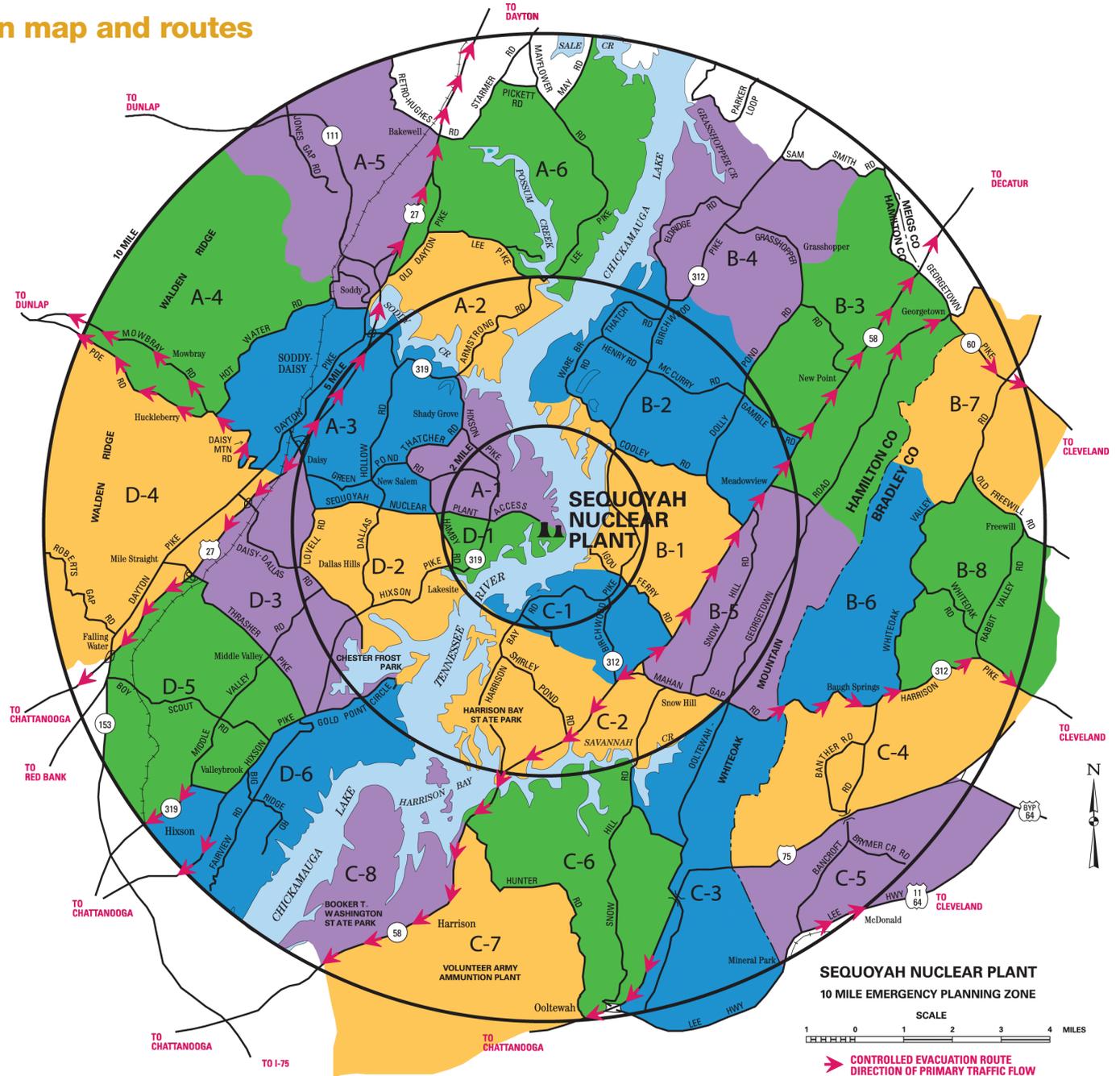
The evacuation routes for each sector are described on pages 5 and 6. If an evacuation is ordered, locate the number for your sector and follow that route. Emergency workers will patrol these roads and will provide any aid or guidance you need.

Note: Individuals in doubt as to sector of residence or work should contact their local emergency management agency.

My sector number is:

HOME

WORK





Controlled evacuation routes

Controlled evacuation routes are established for the purpose of helping the traffic flow. These routes will be patrolled by law enforcement officers and traffic-assist teams. In addition, if you are not familiar with the area or your shelter assignment, shelter information points will be set up on each route to assist in getting you to your assigned shelter. The controlled evacuation routes are indicated by arrows on the map on page 4 and are as follows:

US Highway 27: North from the intersection of Sequoyah Access Road into Rhea County and south from the intersection into Chattanooga

State Route (SR) 58: North from the intersection of Igou Ferry Road into Meigs County and south from the intersection into Chattanooga

Mowbray Road: West into Sequatchie County to Dunlap

Hixson Pike: South into Chattanooga

Middle Valley Road: South into Chattanooga

Georgetown Road: East into Cleveland

Harrison Pike: East into Cleveland

South Lee Highway: East into Cleveland

A-1, A-2

To: Rhea Central Elementary School (Rhea County)

Take the most direct route from your location to US 27; go north on US 27 and take the Business Route into Dayton to Delaware Avenue; turn left on Delaware to the school, located at 1005 Delaware Avenue at the corner of Delaware and SR 30 West.

A-3, A-6

To: Rhea County High School (Rhea County)

Take the most direct route from your location to US 27; go north on US 27 into Rhea County through Dayton to Evensville; turn left on Eagle Lane.

A-4

To: Sequatchie County High School (Sequatchie County)

Take the most direct route from your location to Mowbray Road; go west on Mowbray Road into Sequatchie County to East Valley Road and turn left; go to Old York Highway and turn right; go to US 127; turn left on US 127 and go to SR 28; turn right on SR 28 and go to the school on the right.

A-5

To: Rhea Central Elementary School (Rhea County)

Take the most direct route from your location to US 27; go north on US 27 and take the Business Route into Dayton to Delaware Avenue; turn left on Delaware and go to the school, located at 1005 Delaware Avenue at the corner of Delaware and SR 30 West.

B-1, B-2, B-3, B-4, B-5

To: Meigs County High School (Meigs County)

Take the most direct route from your location to SR 58; go north on SR 58 into Meigs County to Decatur; go through the intersection with SR 30 and turn left on W. Memorial Dr.; go three blocks on W. Memorial Dr. and turn right on School Drive to the school located on the right.

B-6, B-8

To: Ocoee Middle School (Bradley County)

Take the most direct route from your location to Harrison Pike into Cleveland; turn left on Keith Street and go to 25th Street; turn right and go to Ocoee Street; turn right on Ocoee Street and go to the shelter at Ocoee and 23rd streets.

B-7

To: Ocoee Middle School (Bradley County)

Take the most direct route from your location to Georgetown Road (SR 60); take Georgetown Road into Cleveland to 25th Street; follow 25th Street to Ocoee Street; turn right on Ocoee Street and go to the shelter at Ocoee and 23rd streets.

C-1, C-2

To: Brainerd High School (Hamilton County)

Take the most direct route from your location to SR 58; go south on SR 58 to SR 153; go south on SR 153 to Lee Highway/Brainerd Road; turn right on Brainerd Road and go to North Moore Road; turn right on North Moore and go to the school at 1020 North Moore Road.

C-3, C-6

To: East Ridge High School (Hamilton County)

Take the most direct route from your location to SR 58; go south on SR 58 to SR 153; go south on SR 153 to I-75 South; go south on I-75 to the East Ridge exit; turn right on Ringgold Road to Tombras Road (traffic light No. 8); turn left on Tombras Road to Bennett Road; turn right and go to the school on the left at 4320 Bennett Road.

C-4, C-5

To: Ocoee Middle School (Bradley County)

Take the most direct route from your location to South Lee Highway or Harrison Pike into Cleveland to Keith Street. Go north on Keith Street to 25th Street; turn right on 25th Street and go to Ocoee Street; turn right on Ocoee Street and go to the shelter at Ocoee and 23rd streets.

C-7

To: East Ridge Middle School (Hamilton County)

Take the most direct route from your location to SR 58; go south on SR 58 to SR 153; go south on SR 153 to I-75 South; go south on I-75 to the East Ridge exit; turn right on Ringgold Road to Tombras Road (traffic light No. 8); turn left on Tombras Road to Bennett Road; turn right and go to the school on the left at 4400 Bennett Road.

C-8

To: Dalewood Middle School (Hamilton County)

Take the most direct route from your location to SR 58; go south on SR 58 to SR 153; go south on SR 153 to the Shallowford Road exit; turn right and go to the school at 1300 Shallowford Road.

D-1, D-2, D-6

To: Chattanooga High Center for Creative Arts (Hamilton County)

Take the most direct route from your location to Hixson Pike; go south on Hixson Pike to Fernway Road; Fernway Road will turn into Old Dallas Road; continue on Old Dallas Road to Dallas Road; continue on Dallas Road to the school, located at 1301 Dallas Road.

D-3

To: Orchard Knob Middle School (Hamilton County)

Take the most direct route from your location to Hixson Pike; go south on Hixson Pike to SR 153; go south on SR 153 to Amnicola Highway; south on Amnicola Highway to Wilcox Boulevard; turn left on Wilcox Boulevard and go to Holtzclaw Avenue; turn right on Holtzclaw to Third Street; turn left on Third Street to Highland Park Avenue; turn left on North Highland Park and go to the school at 500 North Highland Park.

D-4

To: Howard School of Academics and Technology (Hamilton County)

Take the most direct route from your location to US 27; go south on US 27 to the I-24 interchange; take the Lookout Mountain/South Broad Street exit onto Williams Street; go to 26th Street; turn left on 26th Street and go to Market Street. The school is at 2500 South Market Street.

D-5

To: Howard School of Academics and Technology (Hamilton County)

Take the most direct route from your location to Hixson Pike; go south on Hixson Pike to Dupont Parkway; turn left on Dupont Parkway and go to Amnicola Highway (SR 58); go south on Amnicola Highway – Riverside Drive – Riverfront Parkway to Market Street; go right on South Market Street to the school at 2500 South Market Street.

School pairings for relocation

If an incident involving an actual or potential radiological release occurs at Sequoyah Nuclear Plant, first consideration will be given to the safety of children.

If a Site-Area Emergency is declared at the plant (see page 9, “How emergencies are classified”), students and childcare children in the 10-Mile Emergency Planning Zone will be relocated to paired schools in a safe area. Children will be under the supervision of school officials at all times during and after the movement.

To allow school officials to move the children quickly and safely without causing unnecessary delays, do not attempt to pick up children at the schools once the relocation order is issued.

A list of schools and childcare centers in the EPZ and the schools to which the children will be taken is provided below. (Sector location is in parentheses.)

Bradley County Schools

Prospect Elementary School (B-6)

Relocated to: Ocoee Middle School, Ocoee Street at 23rd Street, Cleveland, TN

Bradley-Bachman School (C-5)

Relocated to: Ocoee Middle School, Ocoee Street at 23rd Street, Cleveland, TN

Bradley County Childcare Facilities

Korner Kampus II Day Care (C-5)

Relocated to: Ocoee Middle School, Ocoee Street at 23rd Street, Cleveland, TN

Hamilton County Schools

John Allen Elementary School (A-3)

Relocated to: Rhea County High School, Highway 27 North, Evensville, TN

Soddy-Daisy Middle School (A-3)

Relocated to: Rhea County High School, Highway 27 North, Evensville, TN

Soddy Elementary School (A-5)

Relocated to: Rhea Central Elementary School, 1005 Delaware Avenue, Dayton, TN

North Hamilton Co. Elementary School (A-5)

Relocated to: Rhea Central Elementary School, 1005 Delaware Avenue, Dayton, TN

Daisy Elementary School (D-3)

Relocated to: Rhea Central Elementary School, 1005 Delaware Avenue, Dayton, TN

Soddy-Daisy High School (D-3)

Relocated to: Rhea County High School, Highway 27 North, Evensville, TN

Loftis Middle School (D-3)

Relocated to: Orchard Knob Middle School, 500 North Highland Park Avenue, Chattanooga, TN

Snow Hill Elementary School (C-2)

Relocated to: Brainerd High School, 1020 North Moore Road, Chattanooga, TN

Hamilton County High School (C-2)

Relocated to: Brainerd High School, 1020 North Moore Road, Chattanooga, TN

Bethel Christian Academy (Private) (D-6)

Relocated to: Chattanooga High Center for Creative Arts, 1301 Dallas Road, Chattanooga, TN

Ooltewah Elementary (C-6)

Relocated to: East Hamilton School, 2015 Ooltewah Ringgold Road, Ooltewah, TN

Ooltewah High School (C-6)

Relocated to: East Hamilton School, 2015 Ooltewah Ringgold Road, Ooltewah, TN

Ooltewah Seventh Day Adventist School (Private) (C-6)

Relocated to: East Ridge High School, 4320 Bennett Road, East Ridge, TN

Hunter Road Middle School (C-7)

Relocated to: East Ridge Middle School, 4400 Bennett Road, East Ridge, TN

Brown Middle School (C-7)

Relocated to: East Ridge Middle School, 4400 Bennett Road, East Ridge, TN

Central High School (C-7)

Relocated to: East Ridge Middle School, 4400 Bennett Road, East Ridge, TN

Wallace A. Smith Elementary School (C-7)

Relocated to: East Ridge Middle School, 4400 Bennett Road, East Ridge, TN

Harrison Elementary School (C-8)

Relocated to: Dalewood Middle School, 1300 Shallowford Road, Chattanooga, TN

Sequoyah High School (D-2)

Relocated to: Chattanooga High Center for Creative Arts, 1301 Dallas Road, Chattanooga, TN

McConnell Elementary School (D-3)

Relocated to: Orchard Knob Middle School, 500 North Highland Park Avenue, Chattanooga, TN

Ganns Middle Valley Elementary School (D-3)

Relocated to: Orchard Knob Middle School, 500 North Highland Park Avenue, Chattanooga, TN

Falling Water Elementary School (D-4)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Ivy Academy Inc. (D-4)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Hixson High School (D-5)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Hixson Middle School (D-5)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Big Ridge Elementary School (D-6)

Relocated to: Chattanooga High Center for Creative Arts, 1301 Dallas Road, Chattanooga, TN

Hamilton County Childcare Facilities

Sequoyah Learning Center (A-1)

Relocated to: Rhea Central Elementary School, 1005 Delaware Avenue, Dayton, TN

Tommie Lane Preschool (A5)

Relocated to: Rhea Central Elementary School, 1005 Delaware Avenue, Dayton, TN

Teresa’s Hot Tots (A6)

Relocated to: Rhea County High School, Highway 2 North, Evensville, TN

Mill Creek Country Day School (C-6)

Relocated to: East Ridge High School, 4320 Bennett Road, East Ridge, TN

Childcare Network (Ooltewah) (C-7)

Relocated to: East Ridge Middle School, 4400 Bennett Road, East Ridge, TN

Child Care at Volkswagen Drive (C-7)

Relocated to: East Ridge Middle School, 4400 Bennett Road, East Ridge, TN

Discovery Point Child Development Center (C-7)

Relocated to: East Ridge Middle School, 4400 Bennett Road, East Ridge, TN

Daisy Head Start (D-2)

Relocated to: Chattanooga High Center for Creative Arts, 1301 Dallas Road, Chattanooga, TN

2Joy’s Little Darlings (D2)

Relocated to: Chattanooga High Center for Creative Arts, 1301 Dallas Road, Chattanooga, TN

Hixson First Baptist Child Development Center (D-5)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Hixson United Methodist Day Care (D-5)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Kiddieland (D5)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Childcare Network (Hixson) (D-5)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Burk’s United Methodist Day Care (D-5)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Grace Christian Academy (D-5)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Tiny Scholars (D-5)

Relocated to: Howard School of Academics and Technology, 2500 South Market Street, Chattanooga, TN

Hixson Learning Center (D-6)

Relocated to: Chattanooga High Center for Creative Arts, 1301 Dallas Road, Chattanooga, TN

Kids “R” Kids Preschool (D-6)

Relocated to: Chattanooga High Center for Creative Arts, 1301 Dallas Road, Chattanooga, TN



If you need special help

Your health and safety are important. Therefore, special plans must be made to assist and care for persons who are medically disabled or handicapped.

If you or someone you know lives within 10 miles of Sequoyah and needs special help, please fill out and mail the card provided in this calendar. The card is pre-addressed and postage-paid and must be mailed as soon as possible so adequate arrangements can be made.

Please fill out and return the card even though you may have returned the card from a previous calendar.

This will enable your emergency officials to maintain a current list of all persons who would need assistance.

After you have answered all the questions, drop the card in a mailbox.

If you have any questions or need additional cards, you can contact an emergency management official listed on page 1 of this calendar.

Dial 711 for TTY/Relay Service.

For farmers and home gardeners

If a major incident happens at Sequoyah Nuclear Plant, the Tennessee Department of Agriculture will issue periodic information concerning the safety of using homegrown products.

You should stay tuned to an EAS station for these announcements. Information on actions you can take to protect crops and livestock is available from your County Agricultural Extension Agent.

Your crops

- An unharvested crop is hard to protect. But normal harvesting and processing may still be possible if time permits.

- Crops already harvested will be safer if they are stored inside.
- You should wash and peel vegetables and fruits from your garden before use if they were not already harvested.

To protect your livestock

- Provide as much shelter as possible. If you do not have enough space in barns or sheds, use natural shelters such as wooded lots or culverts.
- Take care of milk animals first.
- Provide plenty of food and water and make sure shelters are well ventilated.
- Use stored feed when possible.

Emergency supplies checklist

To help you prepare for any type of emergency, we have provided two lists of supplies. One lists items you may need to keep in your home to aid your response. The second lists supplies to take with you if you are asked to leave the area. Check the supplies you would need and add supplies not listed.

Emergency supplies for your home

- First-aid kit
- Toolbox
- Candles and matches
- Potassium iodide tablets*
- Portable radio, flashlight, extra batteries
- _____

Evacuation supplies

- This calendar
- Medicine or any special medication
- Personal health products (shaving cream, toothbrush)
- Special diet food
- Blankets and pillows
- Cash, checkbook, credit cards, important papers
- Items for children (favorite toy, books)
- Change of clothing
- Potassium iodide tablets*
- _____

***Potassium iodide tablets** – In cases where you may be exposed to certain types of radioactivity, the Tennessee Department of Health may direct you to take potassium iodide (KI) tablets. These tablets, when taken as directed, may reduce the amount of radioactive iodine absorbed by your body's thyroid gland. Should an accidental release of radiation occur, potassium iodide will be available at all mass-care shelters. However, if you live within five miles of the plant and prefer to have it on hand, you can pick up a supply at the following location: **Sequoyah Health Center, 9527 Ridge Trail Road, Soddy-Daisy, TN 37379, 423-842-3031.**

Any questions concerning potassium iodide should be referred to Sequoyah Health Center.

? General information

How emergencies are classified

If there is an incident at Sequoyah Nuclear Plant, it will be placed in one of four categories that have been established by the United States Nuclear Regulatory Commission and adopted by the state of Tennessee and TVA.

The four emergency levels are described below in order from least to most severe.

- 1. A Notification of Unusual Event** is the least serious. Because of strict federal laws, any event out of the ordinary is reported to federal, state and local authorities. The event poses no threat to you or to plant employees, but emergency officials are notified.
- 2. An Alert** is declared when an event has occurred that could reduce the level of safety of the plant, but backup plant systems still work. Emergency agencies are notified and kept up-to-date, but no action by the public is necessary.
- 3. A Site-Area Emergency** is declared when an event involving major problems with plant safety systems has progressed to the point that a release of some radioactivity into the air or water is possible. The sirens will be sounded. If they are, you should listen to radio and television stations for details.
- 4. A General Emergency** is the most serious of the four classifications and is declared when an event at the plant has caused a loss of safety systems and is likely to lead to a release of radiation into the environment. State and local authorities will take action to protect residents living near the plant. People in affected areas will be advised to stay indoors or to evacuate.



Glossary

Background radiation – This is radiation from natural sources. It comes from the sun’s rays and it’s in the ground, building materials and the human body.

Core – The central part of a nuclear reactor that contains the uranium fuel.

Fission – The nuclear process in which a heavy atom, such as uranium, splits into fragments.

Fuel assembly – A collection of rods that contain the nuclear fuel pellets. The fuel pellets produce heat to make the steam used to generate electricity.

Fuel pellets – Thimble-sized uranium dioxide pellets used in nuclear power generation. Each pellet contains about the same amount of energy as that produced from burning 1 ton of coal. A modern reactor core may contain up to 17.5 million pellets.

Fuel rods – Hollow tubes that contain stacks of uranium dioxide fuel pellets. These rods are bundled together to form fuel assemblies.

Half-life – The time required for a radioactive substance to lose one-half of its radioactivity. Half-life can vary from minutes to years, depending on the substance.

What is radiation?

Radiation is energy traveling in the form of invisible particles or rays after the breakdown of radioactive atoms. Everyone is exposed to small amounts of radiation every day. Air, water, food and sunshine are a few sources of natural background radiation. The dose humans receive from radiation is commonly measured in “millirems.” According to recent studies, the average radiation dose to a member of the public in the United States is about 620 millirems per year.

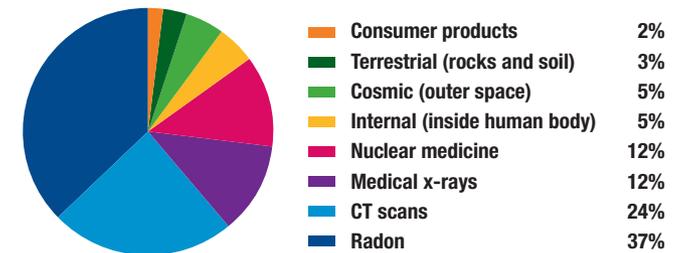
Radiation also comes from other sources. Color televisions produce about 1 millirem of radiation every year. Medical procedures such as x-rays and diagnostic tests can result in 20 to several thousand millirems of radiation a year, depending on a person’s treatment for disease or injury.

People are concerned about radiation exposure because it can alter or damage human cell structure. That is why workers at nuclear power plants are carefully monitored and trained to limit their exposure to a level that is as low as is reasonably achievable. The Nuclear Regulatory Commission, which issues licenses to all nuclear power plants, has set a maximum safe individual dose of 5,000 millirems a year, measured over the entire body. To avoid

coming even close to this level, TVA work procedures set an administrative limit of 1,000 millirems per year for any worker, with any additional dose requiring written approval.

A nuclear power plant’s containment building, reactor vessel and fuel assemblies are barriers designed to contain radiation and protect plant workers and persons living near the plant from any exposures to elevated levels of radiation. Repeated surveys around TVA’s operating nuclear plants have shown no detectable increase in radiation above normal background levels.

SOURCES OF RADIATION



How Sequoyah works

Sequoyah operates much like a fossil-fueled power plant, with one major difference. In a fossil plant, coal, oil or gas is burned to make heat. The heat turns water into steam, the steam drives a turbine and the turbine spins an electrical generator, producing electric power.

The operation is the same at Sequoyah, except the heat is provided by a process called fission that occurs within the nuclear fuel. The fuel for Sequoyah is slightly enriched uranium dioxide, which is made into pellets and sealed inside long metal tubes called fuel rods.

To make up the fuel core, 264 fuel rods are placed in a bundle called a fuel assembly. There are 193 fuel assemblies per reactor core. The heavy steel reactor vessel in which these fuel assemblies are contained is about 44 feet high and 14 feet in diameter. The concrete walls around it are 8 feet thick. The outer dome-shaped concrete containment that encloses each reactor is about 151 feet high and 134 feet in diameter.

When a uranium atom is struck by a small particle called a neutron, it can split (fission), giving off heat and more neutrons. Those neutrons strike other uranium atoms, causing them to split and continue the chain reaction. The reaction is started and stopped by substances that absorb neutrons. Control rods are made of material that absorbs neutrons and can be moved in and out of the fuel core. When inserted into the core, they stop the chain reaction.

The illustration below shows the three separate water systems used at Sequoyah and how the heat from the fission process is used to make steam and generate electricity. Please note that the radioactive water in the primary loop (yellow) is not permitted to mix with other nonradioactive water systems (pink and blue).

In the primary loop (yellow), water is pumped through the reactor core and heated by the fission process that occurs within the fuel rods. The water is kept under high pressure to prevent it from boiling. The heated water from the reactor is passed through tubes inside four steam generators, where the heat is transferred to a secondary loop.

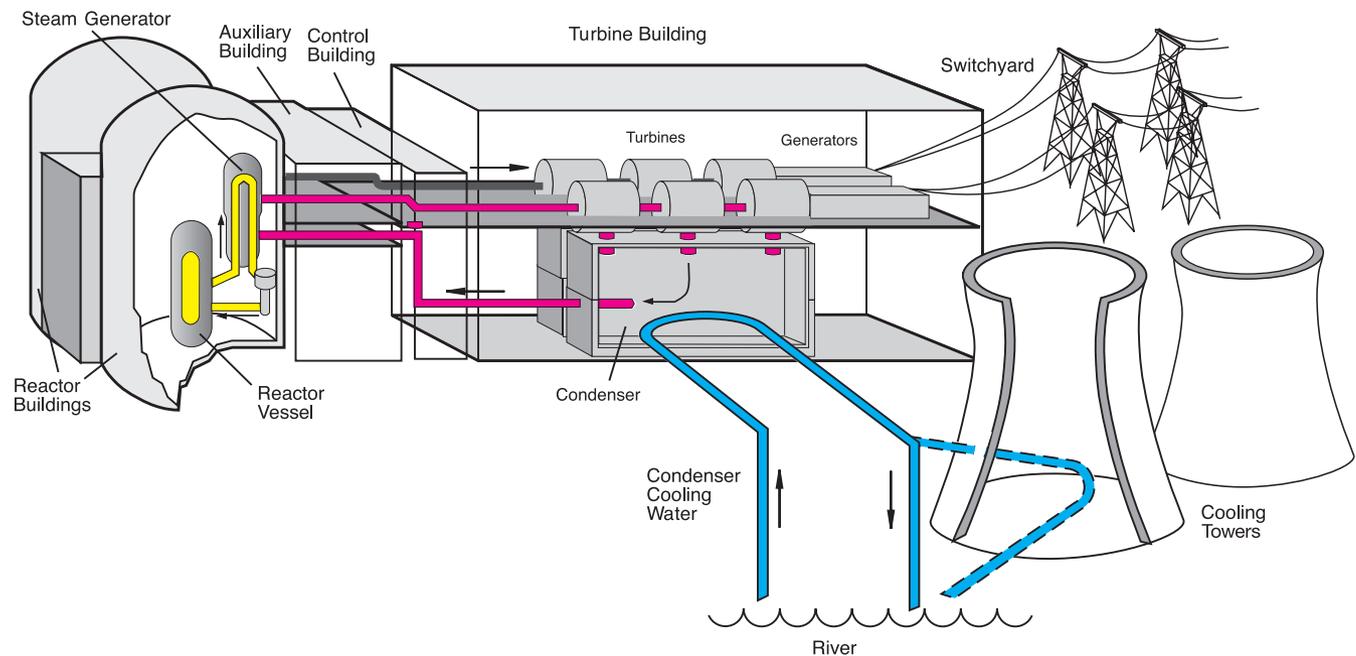
The water in the secondary loop (pink)

boils and turns to steam. The steam is piped to the turbines. Each turbine receives steam at a pressure of more than 800 pounds per square inch and a temperature of more than 500 degrees Fahrenheit. The force of the expanding steam drives three low-pressure turbines and one high-pressure turbine to spin an electromagnet in a coil of wire (the generator) at 1,800 revolutions a minute, generating electric power. The total weight of these rotating parts is more than a million pounds. The generator produces about 24,000 volts, which is sent to transformers in the switchyard and stepped up to 500,000 volts for Unit 1 and 161,000 volts for Unit 2.

After passing through the turbines, the low-energy steam is converted back to water by circulating it around

tubes that carry cool water from Chickamauga Reservoir (blue) in a large boxlike structure called a condenser. The condensed steam – now water – is pumped back to the steam generator at about 50,000 gallons per minute to repeat the cycle.

The water in the condenser tubes picks up heat from the steam passing around the outside of the tubes. This heated water may be passed through Sequoyah's two 459-foot-high cooling towers before being returned to the lake or reused in the plant. The height and shape of these concrete towers create a natural draft of air through the tower base, which is used to remove heat from the water. The white plumes that sometimes rise from the towers are ordinary water clouds.



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