



## Explore Dominion Energy's Nuclear Information Center

Contact the center prior to your visit, to ensure a staff member is available to assist you.

North Anna NIC: 540-894-2029 Surry NIC: 757-357-5410

Look for us on the web: [www.dominionenergy.com](http://www.dominionenergy.com)

GUIDELINES: Visit Dominion Energy's Nuclear Information Center. Based on the grid below, complete the number of activities for your grade level.

	DISCOVER	CONNECT	TAKE ACTION	ANY ACTIVITY UNDER ANY KEY	Total number of Activities
Daisy	1	1	1	0	3
Brownie	1	1	1	1	4
Junior	1	1	1	2	5
Cadette	1	1	1	3	6
Senior	1	1	1	4	7
Ambassador	1	1	1	5	8

### DISCOVER

- Download this brochure to plan your visit [Dominion Energy Nuclear Station brochure](#)
- Find out about natural electricity and Benjamin Franklin's famous kite experiment.
- Learn about Thomas Edison's invention (the practical light bulb). Follow the path that electrons travel through a closed circuit.
- Trace the path from nuclear energy to electricity (uranium mining to electricity for your home). How many closed water systems are there in a pressurized water reactor system?
- Find out what your carbon footprint is and how you can reduce it.
- Understand the two ways reactor operators increase or decrease reactor power at a nuclear station.
- Find out the building materials that make up the containment building for our reactors. How thick is the containment wall?

### CONNECT

- Name four (4) major United States sources of energy (renewable or non-renewable).
- What body of water is used as a cooling source?
- How much coal and oil does it take to produce the same amount of energy as in one nuclear fuel pellet?
- Name (and explain) one way of storing used nuclear fuel at a power station.
- What percentage of electricity comes from nuclear energy in the United States?
- Which material provides the best shielding from radiation: Glass, Wood, Cloth, Aluminum, or Lead?

### Optional: If available, watch one of these videos:

- 1) "Play It Safe Around Electricity" (Daisy, Brownie, Junior)
- 2) "Dominion Energy's Nuclear Stations" (Junior, Cadette, Senior, Ambassador)

### TAKE ACTION

- Teach your family what you learned about electricity or nuclear power.
- With your troop or family, determine and implement four (4) ways to conserve energy.
- Volunteer at a near-by state park to clean up the river or lake shore line.
- Teach a younger group of Girl Scouts about electricity and/or energy sources.
- Help a younger group of Girl Scouts to earn a power or energy related award.
- Put together a presentation on the pros and cons of nuclear power and present it at your school or service unit meeting or event.