

# RADIATION

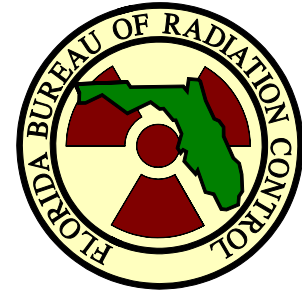
- is energy radiated in the form of waves or particles
- can be produced using electricity
- is found in nature
- is produced in nuclear reactors and particle accelerators
- is either ionizing or nonionizing
  - ionizing radiation: X-ray machines and radioactive materials
  - non-ionizing radiation: ultrasound, MRI, lasers, microwaves, and EMF from wiring and appliances
- is used in medical care, industry, food preservation, research and sterilization

## Mission

Protect people and the environment from unnecessary radiation exposure

### For More Information Contact:

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# BUREAU OF RADIATION CONTROL



Division of Environmental  
Health

Department of Health

## **RADIATION CONTROL PROGRAMS**

### **RADIATION MACHINES**

- Regulates the use of x-ray machines through education and enforcement
- Inspects all machines on established schedules

### **RADIOACTIVE MATERIALS**

- Issues unique licenses for each use of radioactive materials
- Inspects licensed facilities periodically with frequency based on potential hazard
- Educates and sanctions those who do not comply with safety requirements

### **RADIOLOGIC TECHNOLOGY**

- Certifies qualified technologists
- Approves continuing education
- Enforces provisions of the Radiologic Technologist Certification Act

## **RADIATION CONTROL PROGRAMS**

### **EMERGENCY RESPONSE**

- Provides training on how to deal with radiation incidents
- Participates in annual exercises at nuclear power plants to test readiness to respond to accidents
- Responds to accidents involving radioactive material
- Analyzes environmental samples on site with a mobile laboratory

### **POWER PLANT SURVEILLANCE**

- Collects and analyzes air, water, soil, vegetation, fish, and milk for radiation levels around nuclear power plants to assure no radiation above authorized levels are found

### **NONIONIZING RADIATION**

- Registers all high-powered lasers, including lasers used in medicine, entertainment and industry
- Provides public education and investigates nonionizing radiation complaints

## **RADIATION CONTROL PROGRAMS**

### **PRE AND POST MINING**

- Monitors radiation levels in air, water and soil before mining and after reclamation
- Evaluates radiological environmental impact of mining

### **LOW LEVEL RADIOACTIVE WASTE TRANSPORTATION**

- Inspects low-level waste shipments for package integrity, load bracing, radiation levels, shipping papers and planned routes

### **RADIOCHEMISTRY LAB AND CALIBRATION FACILITY**

- Analyzes environmental samples to determine radiation levels
- Calibrates instruments used to detect and measure radiation

### **WATER**

- Analyzes drinking and environmental water for radiation levels
- Inspects and certifies commercial labs