



Household Radioactive Materials

Our Mission: To protect and improve the health and environment of all Kansans.

Radiation Control Program (RCP)

- Kansas Department of Health and Environment
 - Division of Health
 - Bureau of Environmental Health

Mission

- Protect Kansans and the environment from harmful effects of radiation
- We strive to minimize unnecessary radiation exposure through competent and efficient utilization of our services and enforcement



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Radiation Control Program

- Radioactive Materials Unit
- X-ray Compliance Unit
- Radiological Emergency Preparedness

Radon

www.kansasradonprogram.org



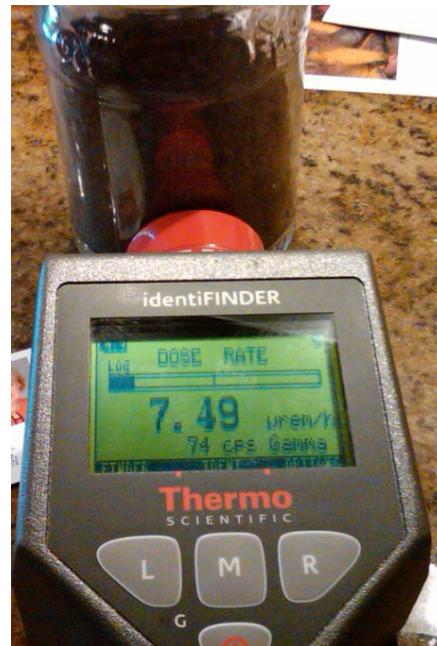
Curtis State Office Building
Topeka, Kansas



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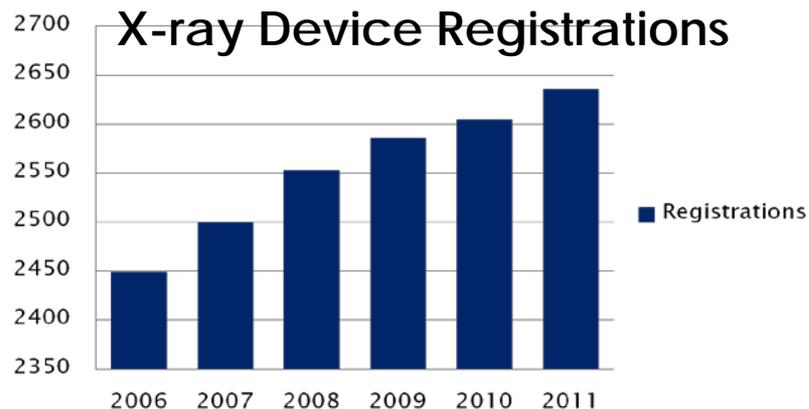
Functions of the RCP

- License users of radioactive material
 - Writing licenses
 - Inspecting licensees



Functions of the RCP

- Registration of X-ray devices
 - Inspection of registrants
 - Review of shielding plans



Functions of the RCP

- Kansas Radon Program
 - Certification and Data Collection
 - Information and outreach

<http://kansasradonprogram.org/>

**Kansas Radon
Program Newsletter**



May 2012



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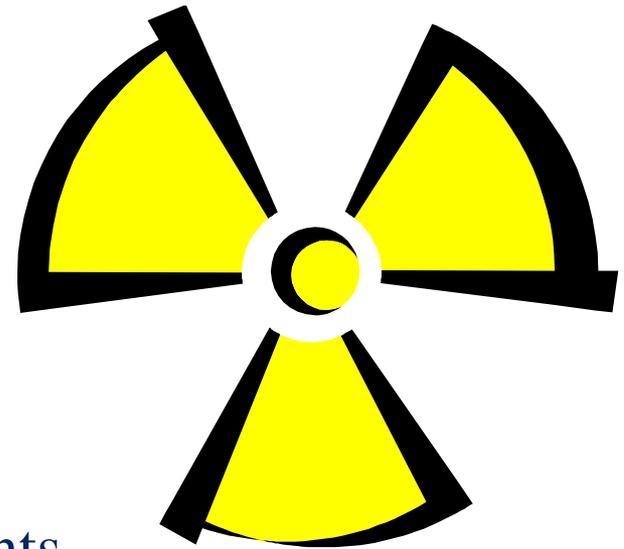
Functions of the RCP

- Radiological Emergency Preparedness
 - Drills and exercises with nuclear power plant
 - Preparedness for other radiological incidents
 - Radiation Response volunteer Corps development



Regulations

- Radiation Control Program
- 28-35-133 to 28-35-505
- Applies to licensees and registrants
- ALARA- As Low as Reasonably Achievable



Bureau of Waste Management

HHW Standard Permit Format

http://www.kdheks.gov/waste/forms/hhw/hhw120-sw_prochhw_app_only.pdf

o 2.1.1 Receipt of Waste

- o Facilities may not accept explosives, infectious wastes, and radioactive wastes.

The screenshot shows the website for the Bureau of Waste Management (BWM) under the Kansas Department of Health and Environment. The header features the state motto "AD ASTRA PER ASPERA" and the text "Kansas Department of Health and Environment". It lists Governor Sam Brownback and Secretary Robert Moser, MD. A navigation menu includes Home, Public Health, Environment, Health Care Finance, Laboratories, and News. The main content area is titled "Waste Management" and includes contact information for Bill Elders, Director, and a "Waste Mgmt Links" section with items like "2013 WORKS! Conference", "Accredited Environmental Laboratories", "BWM Quality Assurance Management Plan", "Contact Us", and "Disposal Without a Permit".



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Radiation Basics

- <http://www.abc.net.au/catalyst/stories/3307975.htm>



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Is it Radioactive?

- Radiation is everywhere in the world around us
- Bananas
- Brazil Nuts
- Salt substitute



<http://www.flickr.com/photos/maxbisschop/5582219542/>

Household Radioactive Materials

- Smoke Detectors
- Lantern Mantles
- Cobalt Glass
- Ceramic Tile
- Fiesta ware



Disposal Options

- Homeowners can dispose of these items in the regular trash
- smoke detector return to manufacturer-limited availability

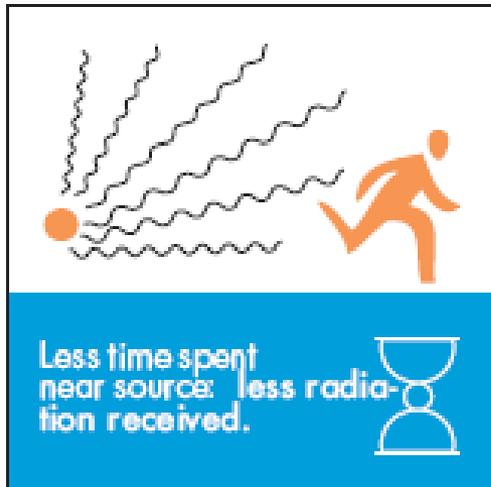


Unusual Items

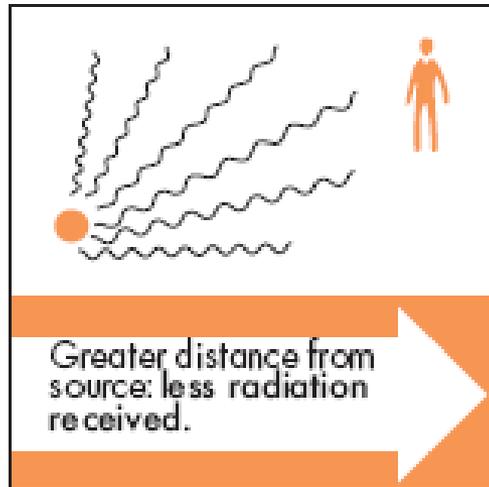
- Medical waste
- Historical items containing radium
 - Radium emanator jars
 - Clocks, watches
- Contact Radiation
Control Program if unsure



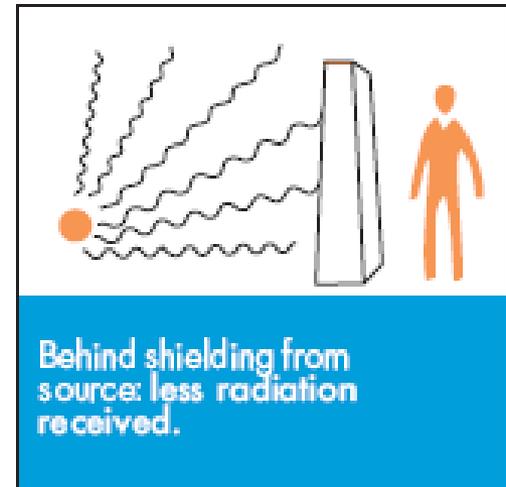
Time



Distance



Shielding



<http://www.nrc.gov/about-nrc/radiation/protects-you/protection-principles.html>

With the negligible amounts of radiation likely to be found at a HHW, you will likely never need to use these protective measures

Resources

- Radiation Control Program 785-296-1560
www.kdheks.gov
- Environmental Protection Agency
 - Search for “smoke detector disposal”
 - Search for “radioactive materials in antiques”
- Health Physics Society
 - <http://hps.org/documents/consumerproducts.pdf>



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