Advice on unwanted Radioactivity entering into Scrap

**LOOKOUT FOR RADIOACTIVE SOURCES**

- **Ra226** Medical Health uses
- **Cs137** Geographical prospection
- **Th232** & **U238** Aircraft wing
- **Ra226** Gauge
- **Cs137** Smoke detector
- **Th232** Measuring device
- **Ra226** Control panel
- **Th232 & U238** Lightning rod
- **U238** Aircraft motor
- **Ra226 & Th232** Optical lens
- **Cs137** and **U238** Aircraft wing
- **Ra226** Smoke detector
- **Cs137** Moisture/density gauge
- **Ra226** Gauge
- **Cs137** Smoke detector
- **Ra226** Smoke detector
- **Cs137** Moisture/density gauge
- **Ra226** and **Th232** Aircraft motor
- **Cs137** and **U238** Aircraft wing
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- **Ra226** Smoke detector
- **Cs137** Moisture/density gauge
- **Ra226** and **Th232** Aircraft motor
- **Cs137** and **U238** Aircraft wing

**NATURALLY OCCURRING RADIOACTIVE MATERIALS & SMALL SOURCES**

- **Th232** and **U238** Aircraft wing
- **Ra226** Smoke detector
- **Cs137** Moisture/density gauge
- **Ra226** Gauge
- **Cs137** Smoke detector
- **Ra226** Smoke detector
- **Cs137** Moisture/density gauge
- **Ra226** and **Th232** Aircraft motor
- **Cs137** and **U238** Aircraft wing

**IMPORTANT**

IF YOU SEE A LABEL OR DEVICE SIMILAR TO THOSE ILLUSTRATED, OR YOU SEE SUSPECTED OR ACTUAL PRESENCE OF RADIOACTIVE MATERIAL IN SCRAP METAL, METAL PRODUCTS OR WASTES: CALL

**GATE MONITORING**

- **NEC** if the alarm went off the first time, the truck must pass through again. If the alarm went off the second time, the truck must pass through two more times — at three activations the alarm before it can be entered into scrap metal.
- **YES** if you see a label or device similar to those illustrated, or you see suspected or actual presence of radioactive material in scrap metal, metal products or wastes. Call.
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**BASIC ADVICE**

- Isolate the suspicious car, van, truck, container(s) or equipment. If considered necessary, stop further processing and dispatching of any metal products or wastes.
- Identify people who may have been exposed to radiation. Record their contact details.
- Inform the managing director/operator of the incident; they may seek the assistance of an on-site radiation safety person or external qualified experts.
- Learn about basic radiological protection; if the company has a gate monitor or portable detector, ask how it works.
- Protect yourself and others from radiation. Keep your distance from radioactive materials. The intensity of radiation and its effects drop off sharply with distance from the source, so always maximize your distance.
- Shielding reduces radiation exposure. Shielding materials, like cement blocks, lead, steel and other metals, will block the radiation produced by radioactive materials. Properly-trained personnel use shielding to reduce the amount of radiation to which they are exposed.

**RADIATION RISK REDUCTION**

- **TIME**: Limit your time near a source of radiation since this will reduce the amount of radiation exposure.
- **DISTANCE**: Keep your distance from radioactive materials. The intensity of radiation and its effects drop off sharply with distance from the source, so always maximize your distance.
- **SHIELDING**: Shielding reduces radiation exposure. Shielding materials, like cement blocks, lead, steel and other metals, will block the radiation produced by radioactive materials. Properly-trained personnel use shielding to reduce the amount of radiation to which they are exposed.

**DON’T**

- Touch or pick up packages or containers with a radioactive symbol and stay as far away from them as possible.
- Open or destroy any suspicious container under any circumstances. Opening a container may be dangerous for you, your fellow workers and the public. Note that heavy metal containers or shielding blocks may be constructed of depleted uranium rather than lead.
- Touch suspect or actual radioactive material with your bare hands.

Recyclers do not want radioactive contamination entering their metal scrap but face such a threat because governments either lost control, or never had control, over radioactive material designated in national law or by a regulatory body as being subject to regulatory control. By identifying such unwanted radioactivity, recyclers protect human health and the environment and help restore government control, thereby preventing further dispersion of, or contamination by, such radioactive material.

**BIR** - REPRESENTING THE FUTURE LEADING RAW MATERIAL SUPPLIERS