- Curie: A measure of the rate of radioactive decay essentially equal to the radioactivity of one gram of radium. A microcurie is one millionth (or 10⁻⁰) of a curie. A nanocurie is one billionth (or 10⁻⁸) of a curie.
- **Half-life:** Time required for a radioactive substance to lose 50 percent of its radioactivity by **decay.** For example the radioactivity of cobalt-60 with a half-life of 5.3 years will drop by **one-half in** 5.3 years.
- Ion-exchange resins: Sand-like materials that chemically remove radionuclides from wastewater and concentrate them in a solid form.
- Isotope: Isotopes are different forms of the same chemical element, having different numbers of neutrons but the same number of protons in the nucleus of their atoms. A single element may have many isotopes. For example, umnium naturally appears in three forms: uranium-234 (142 neutrons), uranium-235 (143 neutrons), and uranium-=238 (146 neutrons); each uranium isotope has 92 protons.
- Radiation: Radiation is emitted in the form of alpha particles, beta particles, gamma rays, or xrays -- each affecting human health differently. For example, alpha particles cannot penetrate a person's skin, therefore can only harm a person if inhaled or ingested. Gamma rays, in contrast, can pass through a person's body.
- Radioactivity: The spontaneous emission of radiation from the nucleus of an atom.
- Radionuclide: Any species of atom whose nucleus emits radiation. Transuranic radionuclides have an atomic number greater than 92 (uranium).
- **Sealed sources:** Sealed sources are sources of radiation that contain granules of radioactive material typically sealed inside double-walled, stainless steel capsules. Large sources can measure up to 20 inches long and 2 inches in diameter, but generally are about 3 inches long and 0.5 inch in diameter. Sealed sources are primarily used in industrial and medical applications (e.g., density and moisture gauges, well logging sources, and radiotherapy machines).
- Waste form: Waste form is the matrix in or on which radionuclides are contained. The waste from of GTCC waste maybe metal, ceramic, paper, etc.

Source: Adapted from the League of Women Voters Education Fund, 1985