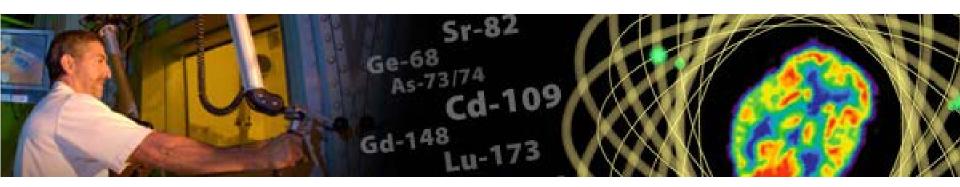


Re-establishing a Domestic Supply Americium-241

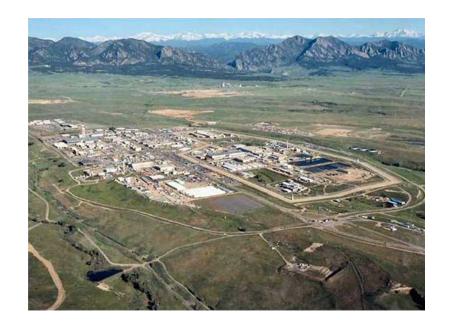


Joel Grimm
Federal Isotope Workshop
September 2013



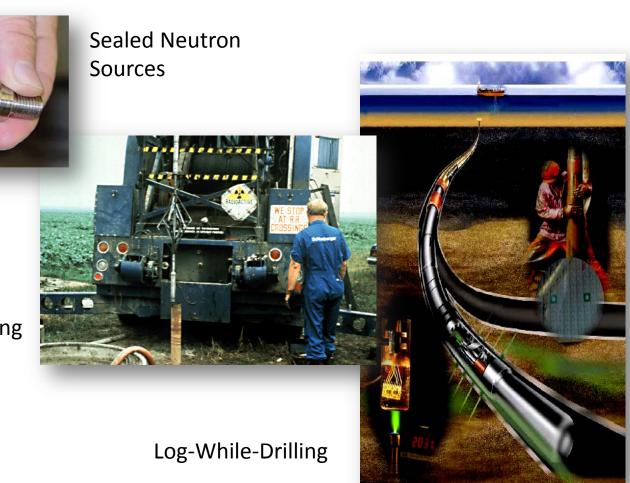
Origin of Americium-241

- Derived from Decay of Weapons-Grade Plutonium
- First AEC Sales in 1962
- 48 Kilograms Produced Through the 1980s
- Rocky Flats Closed in 1989; Sales Supply Exhausted in 2003
- Sealed Sources Manufacturers now Rely 100% on Russia Imports





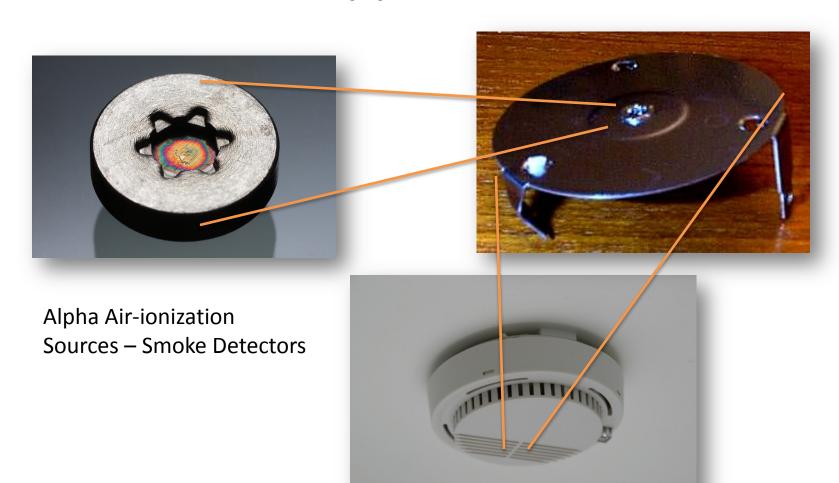
Applications



Wire-line Logging



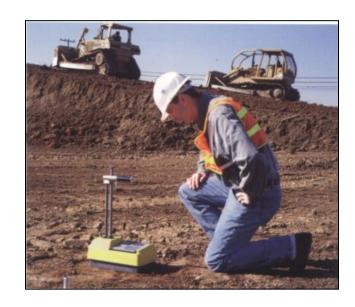
Applications





Applications

Gamma and Neutron Sources Quality-Control Gages



Highway Construction



Manufacturing and Mining



Re-Establishing Production

- NNSA Byproduct at LANL
- Decay Product of Plutonium
- 3,500 grams
- Sealed Source Manufacturers
- NNSA Plutonium Disposition





Schedule

