

LICENSE CONDITION FOR  
PLUTONIUM ALPHA SOURCES

APRIL 1993

- A. Sources when not in use shall be stored in a closed container adequately designed and constructed to contain plutonium which might otherwise be released during storage.
  
- B. At least once every 3 months, the licensee shall test the source for loss of plutonium in one of the following ways using radiation detection instrumentation capable of detecting 0.005 microcurie of alpha contamination:
  - (1) By measurement of the source of potential alpha contamination through surveys of the storage container and areas in which the source is used; or
  
  - (2) By wiping thoroughly the external surfaces of the source mount, other than the radioactive surface of the source, with a piece of filter paper of high wet strength and low porosity moistened with a solution which will not attack the mount and, after the paper is allowed to dry, measuring the radioactivity on the paper.
  
- C. If any survey or measurement performed as required by B.(1) or B.(2) above discloses the loss of more than 0.005 microcurie of plutonium from the source or if a source has been damaged or broken, the source shall be deemed to be losing plutonium. The licensee shall immediately withdraw it from use, and cause the source to be decontaminated and repaired, or disposed of in accordance with the Commission's regulations. Within 5 days after determining that any source has lost plutonium, the licensee shall file a report with the Division of Fuel Cycle Safety and Safeguards, U. S. Nuclear Regulatory Commission, Washington, DC 20555, describing the source, test results, extent of contamination, and corrective action taken. A copy of the report shall be sent to the Administrator of the nearest NRC Regional Office listed in Appendix D of Title 10, Code of Federal Regulations, Part 20.
  
- D. Records of test results shall be kept in units of microcuries and maintained for inspection by the Commission.
  
- E. Notwithstanding the periodic test required by Paragraph B, any plutonium alpha source containing not more than 0.1 microcurie of plutonium is exempted from the above requirements.