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LICENSE CONDITION FOR LEAK TESTING

SEALED SOURCE WHICH CONTAINS ALPHA AND/OR

BETA-GAMMA EMITTERS

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- A.
1. Each sealed source containing more than 100 microcuries of beta and/or gamma emitting material or more than 10 microcuries of alpha emitting material, other than Hydrogen-3, with a half-life greater than 30 days and in any form other than gas, shall be tested for leakage and/or contamination at intervals not to exceed 6 months. In the absence of a certificate from a transferor indicating that a test has been made within 6 months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
  2. The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. Prior to any use or transfer to another person, the source shall be leak tested unless they have been tested within 6 months prior to the date of use or transfer.
- B. The test shall be capable of detecting the presence of 0.005 microcuries of radioactive material on the test sample. The sample shall be taken from the sealed source or appropriate accessible surfaces of the container or from the device where the sealed source is mounted or stored in which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.

If the test reveals the following:

1. The presence of 0.005 microcuries or more of removable contamination from the sealed sources other than described below, or
2. The presence of 0.05 microcuries or more of removable contamination from the teletherapy sealed source, or
3. An indication that the irradiator sealed source which is stored in the water pool for shielding purposes is leaking.

The licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired by a person appropriately licensed to make such repairs or to be disposed of in accordance with the Commission regulations.

Within 5 days after determining that any source has leaked, 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, apparent or suspected cause of source failure, and corrective action taken. A copy of the report shall be sent to the Administrator of the NRC Regional Office having jurisdiction listed in Appendix D, Title 10, Code of Federal Regulations, Part 20.