

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH**

RADIOACTIVE MATERIAL LICENSE

Amendment 2

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License Number R-01097-B14

Target Instruments, Inc.
100 Midland Road
Oak Ridge, TN 37830

Attention: Steven Read

Dear Mr. Read:

In accordance with letter dated May 28, 2004, with attachments, from Martin (Gus) Norton, Tennessee Radioactive Material License Number R-01097-B04 is amended as follows:

To add:

6. Radioactive
Material (Element
and Mass Number)

B. Californium 252

8. Chemical and/or
Physical Form

B. Sealed source
(AEA Technology
QSA Inc. Model
CVN.CY2)

9. Maximum Radioactivity
and/or Quantity of
Material Which
Licensee May Possess
at Any One Time

B. One (1) source
not to exceed 54
microcuries.

10. Authorized use

B. In-house detector testing. Instrumentation research and development.

Conditions

20. A. The sealed source authorized by this license in Item B. shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to transfer, the sealed source shall not be put into use until tested.

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- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surface of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Division of Radiological Health, Tennessee Department of Environment and Conservation, 3rd Floor L & C Annex, 401 Church Street, Nashville, Tennessee, 37243-1532, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by persons authorized by this Department, the U.S. Nuclear Regulatory Commission, or another Agreement state to perform such services.

To change Condition 19. This condition will now read as follows:

19. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in application dated November 19, 2003, with attachments, and letters dated April 27, 2004, with attachments, and May 28, 2004, with attachments.

All other parts of this license remain unchanged.

**For the Commissioner
Tennessee Department of
Environment and Conservation**

By Charles Arnott
**Charles Arnott
Health Physicist
Division of Radiological Health**