NRC FORM 374

Amendment No. 3

U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee	In accordance with the letter dated September 9, 1998,
1. Severn Trent Laboratories	3. License number 06-30139-01 is amended in its entirety to read as follows:
2. 200 Monroe Turnpike Monroe, Connecticut 06468	4. Expiration date December 31, 2004
	5. Docket No. 030-33496 Reference No.

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Hydrogen 3	A. Any	A. 100 millicuries
B. Any byproduct material with Atomic Numbers 3 through 83	B. Any	B. 200 millicuries
C. Any byproduct material with Atomic Numbers 84 through 103	C. Any	C. 200 microcuries
D. Any source material	D. Any	D. 10 millicuries
E. Nickel 63	E. Sealed Sources	E. Not to exceed 15 millicuries per source and 225 millicuries total
F. Americium 241	F. Any	F. 10 microcuries
G. Barium 133	G. Sealed Source	G. 20 microcuries
H. Any special nuclear material	H. Any	H. 10 microcuries

9. Authorized use:

A. through H. Laboratory analysis of environmental samples as a service for others.

Designated "Official [illegible]"

Date 2/9/2001

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CONDITIONS

10. Licensed material in Subitems 6.A. through 6.F. of this license may be used only at the licensee's facilities located at 200 Monroe Turnpike, Monroe Connecticut, and 628 Route 10, Whippany, New Jersey. Licensed material in Subitems 6.G. and 6.H. of this license may be used only at the licensee's facility at 628 Route 10, Whippany, New Jersey.

11. A. Licensed material shall be used by, or under the supervision of Erik C. Nielsen.

    B. The Radiation Safety Officer for this license is Erik C. Nielsen.

12. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed 3 years.

    B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.

    C. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

    D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.

    E. Sealed sources and detector cells need not be leak tested if:

        (I) they contain only hydrogen 3; or

        (ii) they contain only a radioactive gas, or

        (iii) the half-life of the isotope is 30 days or less; or

        (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or

        (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

    F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the

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test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Director, Division of Nuclear Materials Safety, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken.

G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.

14. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory.

15. The licensee may transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material."

16. The licensee shall not use licensed material in or on human beings or in field applications where activity is released except as provided otherwise by specific condition of this license.

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17. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Letter dated March 17, 1994
B. Letter received September 30, 1994
C. Letter dated November 28, 1994
D. Letter dated July 20, 1998
E. Letter dated July 21, 1998
F. Letter dated September 9, 1998
G. Letter dated October 26, 1998
H. Facsimile dated October 26, 1998
I. Facsimile dated December 30, 1998

For the U.S. Nuclear Regulatory Commission

Date December 30, 1998

By ***Original signed by Judith A. Joustra***

Judith A. Joustra
Nuclear Materials Safety Branch 2
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406