Amendment No. 04

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.

PC 03121 313788

Licensee

1. Stork/Twin City Testing

2. 662 Cromwell Avenue
St. Paul, MN 55114

In accordance with letters dated December 3, 2004, and December 29, 2004,

3. License number 22-01376-05 is amended in its entirety to read as follows:

4. Expiration date July 31, 2009

5. Docket No. 030-35036
Reference No. 030-14347

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. Cesium-137	A. Sealed sources (Troxler Dwg. No. A-102112)	A. No single source to exceed 9 millicuries
B. Americium-241	B. Sealed sources (Troxler Dwg. No. A-102451)	B. No single source to exceed 50 millicuries
C. Cesium-137	C. Sealed Sources (Troxler Dwg. No. 100283)	C. No single source to exceed 10 millicuries
D. Americium-241	D. Sealed sources (Troxler Dwg. No. 101281)	D. No single source to exceed 50 millicuries
E. Americium-241	E. Sealed sources (Troxler Dwg. No. A-102451)	E. No single source to exceed 40 millicuries
F. Cesium-137	F. Sealed sources (Troxler Dwg. No. A-102112)	F. No single source to exceed 10 millicuries
G. Americium-241	G. Sealed sources (Troxler Dwg. No. A-100608)	G. No single source to exceed 100 millicuries
H. Cesium-137	H. Sealed source (Troxler Dwg. No. 102112)	H. No single source to exceed 10 millicuries
I. Cadmium-109	I. Sealed sources (A/S Model CUC.D1, IPL XFB Series Capsule 3205, NEN Model Nos. NER-467 Capsule LE66 or NER-465, or NAS Model No. IND 1602)	I. No single source to exceed 50 millicuries
J. Cadmium-109	J. Sealed sources (Amersham Model No. CUC.D1 or IP Model XFB Series)	J. No single source to exceed 20 millicuries

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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
K. Nickel-63	K. Plated source (Valco Instruments Company Detector Cell Model No. 140BN)	K. No single source to exceed 10 millicuries
L. Nickel-63	L. Foil source (Tremetrics Inc./ Tracor Detector Cell Model 115500)	L. No single source to exceed 20 millicuries
M. Nickel-63	M. Foil source (Varian Instrument Company Detector Cell Model No. 02-001972-00)	M. No single source to exceed 10 millicuries

9. Authorized use

A. and B. To be used in Troxler Electronic Laboratories, Inc. Model 3400 series gauges to measure moisture/density of construction materials.

C. and D. To be used in Troxler Electronic Laboratories, Inc. Model No. 2401 gauge to measure moisture/density of construction materials.

E. To be used in Troxler Electronic Laboratories, Inc. Model 3216 Roof Reader II gauge to measure moisture content of construction materials.

F. To be used in Troxler Electronics Laboratories, Inc. Model 1351 depth density gauge.

G. To be used in Troxler Electronics Laboratories, Inc. Model 3241 Series gauge for asphalt content measurements.

H. To be used in Troxler Electronic Laboratories, Inc. Model 4640 Series Thin Layer Density Gauge for measurement of density of asphalt overlays.

I. To be used in NITON XL MODEL 309 x-ray fluorescence analyzers to check lead in paint or soil analysis.

J. To be used in Columbia Scientific Industries Corporation (CSIC) Models HEPS, LEPS, DOPS, SAPS SSPS, and SLPS Probes (formerly 820, 840, 880) for x-ray fluorescence analysis.

K. thru M. To be used in gas chromatographs for sample analysis.

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CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at 662 Cromwell Avenue, St. Paul, Minnesota and may be used at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

11. A. The Radiation Safety Officer (RSO) for this license is **Dan Oertel**.

    B. The Alternate Radiation Safety Officer for this license, who shall act as RSO only in the physical absence of the RSO, is Randy Schlegel.

    C. Before assuming the duties and responsibilities as RSO for this license, future RSOs shall have successfully completed one of the training courses described in Criteria in Section 8.8 of NUREG-1556, Volume 1, dated May 1997.

12. Licensed material shall only be used by or under the supervision and in the physical presence of, individuals who have received the training described in the application dated June 1, 1999, and the letter dated July 29, 1999.

13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by NRC under 10 CFR 32.210 or by an Agreement State.

    B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by NRC under 10 CFR 32.210 or by an Agreement State prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

    C. Sealed sources need not be tested if they are in storage and are not being used. However, when they are removed from storage for use or transferred 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

    D. **The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.**

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E. Tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples but not perform the analysis: analysis of leak samples must be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

F. Tests for leakage and/or contamination shall be performed by the licensee or other persons specifically licensed by the Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples for analysis by persons specifically licensed by the Commission or an Agreement State to perform such services.

14. Sealed sources or source rods containing licensed material shall not be opened or sources removed or detached from source rods or gauges by the licensee, except as specifically authorized.

15. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from NRC before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.

16. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by NRC, to account for all sources and/or devices received and possessed under the license.

17. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

18. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.

19. Each portable gauge shall have a lock or other locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage, or when not under the direct surveillance of an authorized user.

20. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or other persons specifically licensed by the Commission or an Agreement State to perform such services.

21. A. If the licensee uses unshielded sealed sources extended more than 3 feet below the surface, the licensee shall use surface casing that extends from the lowest depth to 12 inches above the surface and other appropriate procedures to reduce the probability of the source or probe becoming lodged below the surface. If it is not feasible to extend the casing 12 inches above the surface, the licensee shall implement procedures to ensure that the cased hole is free of obstruction before making measurements.

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B. If a sealed source or a probe containing sealed sources becomes lodged below the surface and it becomes apparent that efforts to recover the sealed source or probe may not be successful, the licensee shall notify the U. S. Nuclear Regulatory Commission and submit the report required by 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the sealed source or probe without obtaining the Commission's prior written consent.

22. 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. Applications dated April 28, 1999, (limited to item numbers 5 and 6), and June 1, 1999; and,

B. Letter dated July 29, 1999.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date DEC 29 2004

By Colleen Carol Casey
Colleen Carol Casey
Materials Licensing Branch
Region III