



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

May 29, 2007

Docket No. 03035277
Control No. 140504

License No. 47-25499-01

Allan Seaman
Radiation Safety Officer
Kanawha Scales & Systems
P.O. Box 569
Poca, WV 25159-0569

SUBJECT: KANAWHA SCALES & SYSTEMS, LICENSE AMENDMENT, CONTROL NO.
140504

Dear Mr. Seaman:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5239, so that we can provide appropriate corrections and answers.

An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).

Current NRC regulations and guidance are included on the NRC's website at www.nrc.gov; select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material**; then **Regulations, Guidance, and Communications**. You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

Original signed by Jenny Johansen

Jenny Johansen
Health Physicist
Materials Security and Industrial Branch
Division of Nuclear Materials Safety

Enclosure:
Amendment No. 5

DOCUMENT NAME: C:\FileNet\ML071500550.wpd

SUNSI Review Complete: JJohansen

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NAME	JJohansen /JMJ/							
DATE	5/29/07							

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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 May 10, 2007
1. Kanawha Scales & Systems, Inc.	3. License number 47-25499-01
2. P. O. Box 569 Poca, West Virginia 25159-0569	is amended in its entirety to read as follows:
	4. Expiration date January 31, 2010
	5. Docket No. 030-35277 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. Cesium 137	A. Sealed Sources registered either with NRC under 10 CFR 32.210 or with an Agreement State (AEA - CDC.800 series, CDC.800-804,; AEA CDC.803-806 CDR.141; IPL HEG-137)	A. 100 millicuries per source and 2 curies total
B. Americium 241	B. Sealed neutron sources registered either with NRC under 10 CFR 32.210 or with an Agreement State (AEA AMC.16, AMC.17; BEBIG Trade Am1.G11, Am1.G22)	B. 300 millicuries per source and 4 curies total
C. Californium 252	C. Sealed neutron sources registered either with NRC under 10 CFR 32.210 or with an Agreement State (AEA CVN.CY2, CVN-10; Frontier Technology 100SNS)	C. 6 sources, no source to exceed 125 micrograms (67 millicuries)
D. Barium 133	D. Sealed source (AEA BDC.800)	D. No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State, total 37 gigabecquerels (GBq) (1 curie)

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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 |
| E. Any byproduct material | E. Analytical samples | E. See 9.E. below |

9. Authorized use:

- A. Through D. Possession and use for maintenance, to include device and source installation, device and source removal; commissioning, dismounting, mounting, relocation, dismantle, source disposal/recycling, source replacement, and testing (leak and/or shutter mechanism); alignment, repair and servicing; packaging, and transportation. Testing and demonstration. Devices include Scan Technologies, Inc. Models Geoscan; CM100; TBM-101; TBM-201; 2100; 2500; 2600; 2800; 3500; 8600; 9000; 9200; 9500, Ashcan Ash Monitor and Hydrotack Moisture Monitor.
- E. Possession incident to the performance of wipe testing of customers' sealed sources.

CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at the Rock Branch Industrial Park, 303 Jacobson Drive, Poca, West Virginia, 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 materials.

If the jurisdictional status of a federal facility within an Agreement State is unknown, the licensee should contact the federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive federal jurisdiction shall be obtained from the appropriate Agreement State regulatory agency.

11. A. Licensed material shall only be used by, or under the supervision and in the physical presence of Allan Seaman, or individuals who have successfully completed a training program equivalent to that in the guidance in NUREG-1556, Volume 18, Appendix H. Authorized users shall have received copies of, and training in, the licensee's operating and emergency procedures, and have been designated by the Radiation Safety Officer. Ancillary personnel shall have received the training in the June 2, 2003 application.
- B. The Radiation Safety Officer for this license is Allan Seaman.

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12. A. Installation, initial radiation surveys, relocation, removal from service, dismantling, alignment, replacement, disposal of the sealed source and non-routine maintenance or repair of components related to the radiological safety of the gauge shall be performed only by, Allan Seaman or other individuals who have completed the training specified in the application dated June 2, 2003 or by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- B. 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.
13. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open. This survey shall be performed only by persons who have completed the training specified in the application dated June 2, 2003.
14. 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 the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily 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 leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
- D. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
- E. 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.

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- F. 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.
- G. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- H. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
- I. The licensee is authorized to collect and analyze tests for leakage and contamination according to the procedures accompanying the application dated November 15, 1999. The licensee may perform these services for others.
15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. A. Each gauge shall be tested for the proper operation of the on-off mechanism (shutter) and indicator, if any, at intervals not to exceed 6 months or at such longer intervals as specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or the equivalent regulations of an Agreement State.
- B. Notwithstanding the periodic on-off mechanism (shutter) and indicator test, the requirement does not apply to gauges that are stored, not being used, and have the shutter lock mechanism in a locked position. The gauges exempted from this periodic test shall be tested before use.
17. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, 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 and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
19. The licensee shall install each device containing licensed material within the manufacturer's specified temperature and environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.

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20. The licensee shall assure that the shutter mechanism, for each device containing licensed material, is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify, as appropriate, its "lock-out" procedures whenever a new device is obtained to incorporate the device manufacturer's recommendations. Licensee staff shall comply with "lock-out" procedures at the client's facilities.
21. 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.
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 U.S. 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. Application dated November 15, 1999 (ML003688121)
 - B. Application dated June 2, 2003 (ML031550485)
 - C. Letter dated April 5, 2004 (ML041030110)
 - D. Letter dated December 4, 2006 (ML063530233)
 - E. Letter dated May 10, 2007 (ML071360370)

For the U.S. Nuclear Regulatory Commission

Date May 29, 2007

By ***Original signed by Jenny Johansen***

Jenny Johansen
Materials Security and Industrial Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406