

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, 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	
1. Michael Baker, Jr., Inc. P.O. Box 280 2. 4301 Dutch Ridge Road Beaver, Pennsylvania 15009	3. License number 37-28518-01
	4. Expiration date June 30, 1995
	5. Docket or Reference No. 030-31690

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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 |
| A. Cesium 137 | A. Sealed sources | A. Not to exceed 10 millicuries per source and 100 millicuries total |
| B. Americium 241 | B. Sealed neutron sources | B. Not to exceed 50 millicuries per source and 500 millicuries total |

9. Authorized use
- A. and B. For possession and use in Troxler Electronics Laboratories, Inc., Campbell Pacific Nuclear Corp., or Humbolt Scientific, Inc. devices which have been approved for licensing purposes under a license issued by the Nuclear Regulatory Commission or an Agreement State.

CONDITIONS

10. Licensed material may be stored at 4301 Dutch Ridge Road, Beaver, Pennsylvania and 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. Licensed materials shall be used only by individuals who have satisfactorily completed the manufacturer's training, and have been instructed in the licensee's operating and emergency procedures. Copies of the certificate of training for each user shall be maintained by the licensee.
- B. The Radiation Safety Officer for this license is David K. Saylor.

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SUPPLEMENTARY SHEET

License nu.

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CONDITIONS

12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.
13.
 - A. Sealed sources 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, not exceeding 3 years.
 - B. 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.
 - C. Sealed sources and detector cells need not be leak tested if:
 - (i) The sealed source contains only tritium; or
 - (ii) The source contains only krypton-85; or
 - (iii) The sealed source or detector cell contains not more than 100 microcuries of other beta and/or gamma emitting material, or not more than 10 microcuries of alpha emitting material; or
 - (iv) The sealed source or detector cell is in storage and not being used. However, when the source or detector cell is removed from storage for use or transfer to another person, and has not been tested within the required leak test interval, it 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.
 - D. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source or detector cell shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A 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: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
 - E. 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.

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CONDITIONS

14. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
15. 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 3 years from the date of each inventory.
16. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container shall be locked when in transport or when not under the direct surveillance of an authorized user.
17. The licensee shall not acquire licensed material in a sealed source or in a device that contains a sealed source unless the source or device has been registered and approved by the Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.
18. 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. Application dated March 20, 1990

For the U.S. Nuclear Regulatory Commission

Date MAY 29 1990

Original Signed by
MICHAEL A. LAMASTRA
By Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406