DL-020596-01

NRC FORM 374 (7-94)

OFFICIAL RECORD COPY

U.S. NUCLEAR REGULATORY COMMISSION

Corrected Copy

MATERIALS LICENSE

Amendment No. 17

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

1. Material Testing Laboratories, Inc.

2. 1531 Early Street
Norfolk, Virginia 23502-1603

In accordance with the letter dated December 2, 1994

3. License Number 45-17151-01

is amended in its entirety to read as follows:

4. Expiration Date ~~December 31, 1998~~

5. Docket or Reference No. 030-12279

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. Iridium 192	A. Sealed radiography source contained in a source assembly registered pursuant to 10 CFR 32.210 or an equivalent Agreement State Regulation (See Condition No. 13)	A. Not to exceed 7.4 terabecquerels (TBq) (200 curies) per source (see Condition No. 15)
B. Cobalt 60	B. Sealed radiography source contained in a source assembly registered pursuant to 10 CFR 32.210 or an equivalent Agreement State Regulation (See Condition 13)	B. No single source to exceed 3.7 TBq (100 curies) (see Condition No. 15)
C. Cesium 137	C. Sealed sources	C. No single source to exceed 3.33 megabecquerels (90 millicuries)
D. Cesium 137	D. Sealed source (Amersham/Technical Operations Model 72602)	D. One source not to exceed 3.7 gigabecquerels (100 millicuries)
E. Uranium (depleted in U 235)	E. Metal shielding material	E. Not to exceed 999 kilograms

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9. Authorized Use:

A. and B. For use in a compatible gamma radiography exposure device registered pursuant to 10 CFR 32.210 or an equivalent Agreement State Regulation for performing industrial radiography and in a compatible source changer (shipping container) registered pursuant to 10 CFR 32.210 or an equivalent Agreement State Regulation for source storage and exchange.

C. For use in commercial calibration devices to calibrate and test dosimeters.

D. For use in Amersham/Technical Operations Model 726 calibrator for calibration of instruments.

E. For use as shielding in radiography exposure devices and source changers (shipping containers)

CONDITIONS

10. A. Licensed material in Items 6. A., B. and E. may be stored at 1531 Early Street, Norfolk, 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 material.

B. Licensed material in Items 6. C. and D. may be used at 1531 Early Street, Norfolk, Virginia.

11. The Radiation Safety Officer for this license is Peter H. Lorsong, Jr. and in his absence Thomas H. Hartley.

12. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have been trained and certified according to the following criteria:

A. As specified in the Material Testing Laboratories, Industrial Radiography Program Manual revised December 2, 1994

B. The provisions of 10 CFR 34.31.

13. All newly manufactured radiographic exposure devices and associated equipment acquired after January 10, 1992 shall comply with the requirements of 10 CFR 34.20. The licensee shall maintain records to verify compliance with this Section of the NRC's regulations.

14. A. Notwithstanding the periodic leak test required by 10 CFR 34.25(b), the requirement does not apply to radiography sources that are stored and not being used. The sources exempted from this test shall be tested for leakage before use or transfer to another person. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

B. Sealed sources authorized for a use other than radiography shall be tested as radiography sources in accordance with 10 CFR 34.25.

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CONDITIONS

Continued -

15. The licensee is authorized to receive, possess, and use sealed sources containing iridium 192 or cobalt 60 where the radioactivity exceeds the maximum amount of radioactivity specified in this license provided that:

    A. Such possession does not exceed the quantity per source specified in Item 8. A. and/or B. by more than 20% for iridium 192 or 10% for cobalt 60; and,

    B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in this license was ordered from the supplier or transferor of the byproduct material; and,

    C. The levels of radiation for radiographic exposure devices and storage containers do not exceed those specified in 10 CFR 34.21.

16. 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."

17. Sealed sources containing licensed material shall not be opened.

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(g) for establishing decommissioning financial assurance.

19. A. The licensee shall maintain records of information important to safe and effective decommissioning at the licensee's facilities specified in Item 2 pursuant to the provisions of 10 CFR, Part 30.35(g) until this license is terminated by the Commission.

    B. In addition the licensee shall maintain all other records and reports required by 10 CFR 19, 20, 30 and 34 and the terms and conditions of this license, at each of the licensee's temporary job sites.

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CONDITIONS

Continued -

20. 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 May 26, 1993 with attached Material Testing Laboratories, Inc. Industrial Radiography Program Manual, revised May 17, 1993 (complete renewal application)

B. Letters dated:

1. December 1, 1993 [missing pages from training program included in renewal package of May 26, 1993]
2. June 18, 1993 [change of ownership, company name not changed]
3. December 2, 1994 [Program changes for trainees' duties, training & responsibilities (delete Lorton office and previously sent letter per telcon 5/16/95)]
4. May 3, 1995 [Commit to 30 days advance notice on branch office opening]

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

DAVID J. COLLINS

DATE FEB 05 1996

BY David J. Collins

Region II, Division of Nuclear Materials Safety
101 Marietta Street, N.W., Suite 2900
Atlanta, Georgia 30323-0199

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