

MATERIALS LICENSE

Amendment No. 01

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.

OFFICIAL RECORD COPY

Licensee 1. Rock-Tenn Company, Missisquoi Mill 2. P.O. Box 98 Mill Street Sheldon Springs, Vermont 05485		In accordance with the letter dated October 30, 1996, 3. License Number 44-30327-01 is amended in its entirety to read as follows:	
		4. Expiration Date July 31, 2001	
		5. Docket or Reference No. 030-34208	
6. Byproduct, Source, and/or Special Nuclear Material A. Krypton 85	7. Chemical and/or Physical Form A. Sealed sources (Amersham Corp. Model No. KAC.D3)	8. Maximum Amount that Licensee May Possess at Any One Time Under This License A. 600 millicuries	
9. Authorized use A. For possession and use in Impact Systems Inc. Model 4400 O-Frame Scanners.			

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at the Missisquoi Mill, Mill Street, Sheldon Springs, Vermont.
11. A. 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 application dated July 29, 1996 and have been designated in writing by the Radiation Safety Officer.
B. The Radiation Safety Officer for this license is Douglas Edwards.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
13. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
14. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
15. Each gauge shall be tested for the proper operation of the on-off mechanism and indicator, if any, at no longer than six-month intervals or at such longer intervals as specified by the manufacturer and approved by the Commission or an Agreement State in a registration certificate referred to in 10 CFR 32.210.

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SUPPLEMENTARY SHEET**

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16. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three 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 three months.
- C. In the absence of a certificate from a transferor indicating that a leak 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 test sample. 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 or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five 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 or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by the Measurex Corporation. 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.

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17. Installation, initial radiation survey, relocation, removal from service, maintenance, and repair of devices containing sealed sources shall be performed by Impact Systems, Inc. or by persons specifically licensed by the Commission or an Agreement State to perform such services. Installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
18. 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 device with the shutter open. This survey shall be performed only by persons authorized to perform such services by the Commission or an Agreement State.
19. The licensee shall operate 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.
20. The licensee shall assure that the shutter mechanism of each device 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.
21. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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. Letter dated July 29, 1996 with attachments

For the U.S. Nuclear Regulatory Commission

Original Signed By:

Kathleen Dolce

By

Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

Date NOV 19 1996

NOV 19 1996

Jack Lynch
Vice President-Operations
Rock-Tenn Company
Missisquoi Mill
P.O. Box 98
Mill Street
Sheldon Springs, Vermont 05485

Dear Mr. Lynch:

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) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original Signed By:
Kathleen Dolce

Kathleen Dolce
Division of Nuclear Materials Safety

License No. 44-30327-01
Docket No. 030-34208
Control No. 123870

Enclosure:

Amendment No. 01

DOCUMENT NAME: R:\WPS\MLTR\L4430327.01

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	Dolce\kd1						
DATE	11/15/96		11/ /96		11/ /96		11/ /96

OFFICIAL RECORD COPY

ML 10

TELEPHONE CONVERSATION RECORD	Date: 11/15/96	Time: 11:10 AM
Mail Control No.: 123870	License No.: 44-30327-01	Docket No.: 030-34208
Person Calling: Douglas Edwards, proposed RSO	Licensee: Rock-Tenn Company	Telephone No.: (802) 933-7733
Person Called: Kathleen Dolce / (610) 337-5251		
Subject: Removal and Insertion of Sources in Gauges		
<p>Summary:</p> <p>L/C 17 requires only the manufacturer to perform duties such as removal and insertion of the source(s) in fixed gauges.</p> <p>A copy of Douglas Edwards training certificate indicates that he has been trained to remove and insert sources in gauges.</p> <p>Items 10 and 11 of application dated 7/29/96 state only manufacturer will perform these duties.</p> <p>Mr. Edwards confirmed that he does not wish to amend L/C 17; the manufacturer will continue to perform maintenance duties (i.e., removal and insertion of sources).</p>		
Action Required/Taken: Process amendment request		
Signature: <i>K. Dolce</i>	Date: 11/15/96	

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ROCK-TENN COMPANY
MISSISQUOI MILL

October 30, 1996

Region 1 Licensing Assistance
U.S. Nuclear Regulatory Commission
Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

To Whom It May Concern:

I am requesting that an amendment be made to our License No. 44-30327-01.

Condition 11.B - Proposed amendment to read:

The Radiation Safety Officer for this license is Douglas Edwards.

Enclosed please find my check in the amount of three hundred dollars to cover the fee for the above amendment along with my certificate of training for Radiation Safety Officer.

Thank you.

Sincerely,

Douglas Edwards
Utilities Superintendent

DE/js
Enc.

123870

NOV - 5 1996

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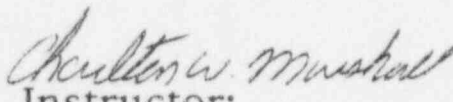
CERTIFICATION OF COMPLETION

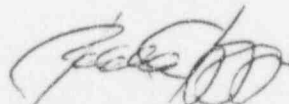
Doug Edwards of Rock-Tenn Co. has successfully completed the prescribed 40 hour Impact Radiation safety course on the following Sensors:

Krypton-85 Basis Weight
Promethium-147 Basis Weight
Iron-55 (disk source) Ash

Doug is fully qualified to service the sensors mentioned above including insertion and removal of the radioactive sources.

San Jose California, October 25, 1996


Instructor:
Charlton W. Marshall


Peter Typpo

Radiation Safety Officer
Impact Systems, Inc.

V.P. sensor Development
Assistant R.S.O.

IMPACT RADIATION TRAINING PROGRAM

RADIATION SAFETY TRAINING (40h) IN SAN JOSE CAL.

October 21 - 25, 1996

COURSE OUTLINE

- | | | |
|------|-----------------------------|-----|
| 9. | Safety Monitoring Equipment | 1 h |
| 9.1 | Radiation Survey Meter | |
| 9.2 | Survey Meter Calibration | |
| 9.3 | Personnel Monitoring | |
| 10. | Emergency Procedures | 2 h |
| 10.1 | Suspected Source Leakage | |
| 10.2 | Suspected Overexposure | |
| 10.3 | Head Separation | |
| 10.4 | Fire | |
| 10.5 | Theft | |
| 11. | Service authorization | 1 h |
| 12. | Shipment Packaging | 1 h |
| 13. | Record Keeping | 1 h |

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: ROCK-TENN COMPANY
RECEIVED DATE: 961105
DOCKET NO: 3034208
CONTROL NO.: 123870
LICENSE NO.: 44-30327-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: \$300.00
CHECK NO.: 667659

3. COMMENTS

SIGNED
DATE

R. J. Brown
11/12/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 12 11)

1. FEE CATEGORY AND AMOUNT: 3P \$300

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT _____
RENEWAL _____
LICENSE _____

3. OTHER _____

SIGNED
DATE

Log	<u>Oct 12</u>
Ref	
Check No.	<u>667659</u>
Amount	<u>\$300</u>
Fee Category	<u>3P</u>
Type of Fee	<u>ARM</u>
Check Recd	<u>11/12/96</u>
Date Completed	
By	<u>RA</u>