



METAL MANAGEMENT, INC.

Metal Management – Northeast

Connecticut Operations
Schiavone Operations
234 Universal Drive North Haven, CT 06473
Fax: 203/782-4272 Fax: 203/782-4210
Voice: 203/777-2591

Fax Cover Page

Date: 10/1/01 Fax Number: 610-337-⁵²⁶⁹~~5025~~
From: E. Hopkins
Send to attention of: Steve Courkmarche
Company Name: XRL
Number of pages including this one: 10

- * I have a wipe test kit on order to wipe test the keener that requires it.
- * I'm advised by the people who conducted wipe test for keener that a tubed unit does not require a wipe test.

JVHjr JohnHarrison

140 Sutherland Drive, Auburn, California 95603

916.782.8899 530.906.8899(cell) jvhjr@newworld.net

Metal Management
 Michael Schiavone & Sons
 Tony Altieri
 234 Universal Dr
 North Haven, CT 06473

NOTICE:
Save this certificate !

Most regulatory agencies require that you leak-test your sealed radioactive source before you use it & at six month intervals thereafter. You may be asked to show proof of compliance during an inspection by the regulatory agency.

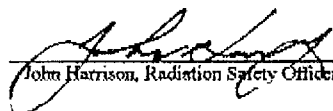
*** * * Leak Test Certificate * * ***

Leak test samples are obtained using a "KVXL-TEST" or "JH-7" leak test kit as authorized by California Radioactive Materials License, # 1655-31.

The sealed source(s) noted below was/were checked for leakage by wiping the source(s) and the holder assembly with a moistened swab which was then analyzed for contamination using a window-less gas-flow proportional counter. The test showed less than 0.001 microCuries of leakage (contamination). The maximum allowable leakage is 0.005 microCuries.

----- This radioactive sealed source **passes** the leak-test -----

Source serial #	Activity, Isotope, and Assay Date	Activity, Isotope, and Assay Date	Leak test Collected by:	Leak test Analyzed by:	Leak test Due Date
3713A	21 mCi of Cd109 as of 15 Sep 98	21 mCi of Am241 as of 15 Nov 82	Ed Ammerer on 28 Dec 99	John Harrison on 07 Jan 00	28 Jun 2000


 John Harrison, Radiation Safety Officer

0202 Source



John Harrison

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John Harrison, Radiation Safety Officer

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 North Haven, CT 06473

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 John Harrison, Radiation Safety Officer

RSA LABORATORIES, INC W-100 Leak Test Kit

SAMPLE DOCUMENTATION AND REPORT OF RESULTS

Company Name: MTLM Aerospace

Radioactive Materials License #: State of CT Ionizing Reg # 917

Company Address: 500 Flatbush Ave.
Hartford, CT 06106

Person to be contacted: Eric R. Hopkins
Phone: (860) 777-2591

For the source to be leak tested:

Source Manufacturer: Kevex

Source Isotope: Cd-109

Source Model No.: 6700

Source Quantity: 8 mCi

Source Serial No.: 18917

Date of Wipe Test: 03/05/2001

Person performing wipe test: Eric R. Hopkins
Return these samples, the empty vial and this data sheet to:

RSA Laboratories, Inc.
21 Pendleton Drive, P.O. Box 61
Hchron, CT 06248

If you have any questions about how to perform this sample procedure, call RSA Laboratories, Inc. at (860) 228-0721.

SEALED SOURCE LEAK TEST CERTIFICATION

This is to certify that a wipe test performed on the above-named source indicates the presence of < .005 μ Ci of total removable radioactivity.

SAMPLE ANALYSIS RESULTS

Total cpm	Background cpm	Efficiency	dpm	Total Activity (μ Ci)
Gamma Spec	Gamma Spec	Gamma Spec	Gamma Spec	< 4.00E-05

Person Performing the Analysis: Jay R. Dockendorff

Date of Analysis: 03/26/2001

12101

Original to customer
Copy to RSA file

Rev. 1/8/03



John Harrison

140 Sutherland Drive
Auburn, California 95600

916.782.8899 or 530.906.8899 | email: jvhjr@comworld.net

Eric Hopkins, *Nucleic Management*

203 782 4272

31 Oct, 2001

Re: Your question regarding the leak testing of radioactive sealed sources.

Eric,

Radioactive sealed sources (in most cases) need to be leak tested every 6 months. An x-ray tube based analyzer contains no "radioactive sealed source" and does not require a "leak test".

Sincerely, John Harrison

A handwritten signature in cursive script, appearing to read 'John Harrison'.

Valley Safety Services Associates
330 Old Enfield Road, Belchertown, MA 01007
(413) 323-9571

Source/Device Description

Source tested prior to installation

Installed in XL Serial #: V1296 Source #: 9980LG Activity: 14 mCi

Device: XRF Analyzer Make/Model : XL 300, 700 or 800 Manuf: Niton

Radioisotope: Am-241 Source Model # : AMC.P4 Manufacturer: Amersham/AEA

The leak testing of this source/device was performed as indicated in manufacturer recommendations for LT-952 kit instructions using kit # 958211
by: Jim Falla Date: 2/5/01

Company Name: Niton Corporation (Ken Martin, RSO)
Address: 1130 Ten Rod Road Suite C-207
North Kingstown, RI 02852
Telephone: (401) 294-1234 Fax: (401) 295-2090

Do Not Write Below This Line

Leak Test Analysis Result
for above source/device

Analysis of the above test on 2 Feb 01 yielded the following:

Statistical analysis of the radioactive count data of this leak test specimen indicated any activity present is less than 0.005uCi. The source may be used as authorized.

Statistical analysis of the radioactive count data of this leak test specimen indicated any activity present is greater than 0.005 microcuries of activity present. This source should be considered leaking. Consult your device operations manual; place this unit in storage and make the required notification to your regulatory agency.

YOUR NEXT REQUIRED LEAK TEST FOR THIS DEVICE/SOURCE IS DUE ON OR BEFORE 2 AUGUST 01

THIS CERTIFICATE IS AN ESSENTIAL RECORD AND SHOULD BE
MAINTAINED FOR INSPECTION BY THE REGULATORY AGENCY.

CERTIFICATE #: 958211 BY: Jim Falla DATE: 2 Feb 01

Valley Safety Services Associates
330 Old Enfield Road, Belchertown, MA 01007
(413) 323-9571

Source/Device Description

Source tested prior to installation

Installed in XL Serial #: V1296 Source #: 9980 LQ Activity: 14 mCi

Device: XRF Analyzer Make/Model : XL 300, 700 or 800 Manuf: Niton

Radioisotope: Am-241 Source Model # : AMC.P4 Manufacturer: Amersham/AEA

The leak testing of this source/device was performed as indicated in manufacturer recommendations for LT-952 kit instructions using kit # 959320
by: Jim Failla Date: 9/7/01

Company Name: Niton Corporation (Ken Martin, RSO)
Address: 1130 Ten Rod Road Suite C-207
North Kingstown, RI 02852
Telephone: (401) 294-1234 Fax: (401) 295-2090

Do Not Write Below This Line

Leak Test Analysis Result
for above source/device

Analysis of the above test on 12 Sept 01 yielded the following:

Statistical analysis of the radioactive count data of this leak test specimen indicated any activity present is less than 0.005uCi. The source may be used as authorized.

Statistical analysis of the radioactive count data of this leak test specimen indicated any activity present is greater than 0.005 microcuries of activity present. This source should be considered leaking. Consult your device operations manual; place this unit in storage and make the required notification to your regulatory agency.

YOUR NEXT REQUIRED LEAK TEST FOR THIS DEVICE/SOURCE IS DUE ON OR BEFORE 12 March 2002

THIS CERTIFICATE IS AN ESSENTIAL RECORD AND SHOULD BE MAINTAINED FOR INSPECTION BY THE REGULATORY AGENCY.

CERTIFICATE #: 959320 BY: Jim Failla DATE: 12 Sept 01



Niton XL# : U12964951LY

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SERVICE REPORT		Ship Date:
PO Number:		
Ship To:	JOHN SARTORI METAL MANAGEMENT- NORTHEAST 234 UNIVERSAL DRIVE NORTH HAVEN CT 06473-3105 USA 203-777-2591	Customer# : 2197

RA :

Niton XL# :U12964951LY Model: 821S

Detector Type: T-08 Features : Alloy Analyzer

Speed: Seconds

Hours Used:

Leak Test Certificate: Yes

Leak Test Performed on: 6/23/00

Other :See SO# 3042 for upgrade info

Description	QTY	Serial#
T-08 DETECTOR	1	577-T
AMERSHAM-10 Cadmium-109 Pin Source	1	4951LY
AMERSHAM-14 Americium-241 Pin Source	1	9980LQ
821S METAL ANALYZER (W/cd-109 & AM-241	1	U1296
BATTERY PACK - STANDARD #1	1	
LEATHER WRIST STRAP	1	
GRAY CARRYING CASE #1500	1	
CASE LABEL 1500	1	
CASE FOAM 1500	1	
CASE FOAM SOURCE GUARD	1	
BAR CODE WAND (light pen) W/ LEMO END	1	
SPARE SAPHIRE TIP FOR BAR CODE WAND	1	
12 VOLT AUXILLARY POWER CABLE	1	
RS232 DOWNLOADING CABLE	1	



Niton XL# : U12964951LY

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Description	QTY	Serial#
RS232 CABLE ADAPTOR FOR PC	1	
ALLOY USER MANUAL	1	
XL CONVERSION FROM 801S TO 821S	1	

Problems & Work Performed Detail

	Problem	Work performed
1	Upgrade to an 821S	Upgraded
2	Windows Upgrade from earlier version to 5.5	Supplied new diskette in customers case.
3	XL Software upgrade to current version.	Upgraded XL software to current version.
4	Calibration & Quality Check.	Calibrated XL, performed a quality check on standards, downloaded to XTRAS Data System.

EVALUATION OF POSSESSION AND USE OF BYPRODUCT MATERIAL
(For use with priority 7 licensees only)

Name: <u>Michael Schiavone & Sons, Inc.</u>	Docket No. <u>030-20970</u>
Address: <u>234 Universal Drive</u> <u>North Haven, CT 08473</u>	License Number: <u>06-23364-01</u>
	Phone Number: <u>(860) 203-777-2591</u>
	FAX Number: <u>() -</u>

1. Name and Title of person responsible for radiation safety program: Anthony Altieri, Radiation Safety Officer

2. Describe how you safeguard the byproduct material from:

(a) use by unauthorized personnel: The portable Niton unit is kept under lock and key when not in use.

(b) loss or theft: The two Kevex units are kept in a warehouse which is locked when unoccupied. Only personnel who wear film badges may use badge.

3. Describe controls that prevent individuals who work in the area around the material from becoming exposed to radiation: The sealed sources are kept in self-shielded devices with turntables for the samples so the sources are not exposed.

4. Do you have a personal monitoring program for your employees, such as film badges, dosimeters, etc.? Yes No
If yes, what was the maximum dose received since 1985 ? (year of last telephone contact or inspection) 20-30 millirem in a calendar year.

5. Do you perform surveys to detect external radiation in the area around the byproduct material? Yes No
If yes, how often are the surveys performed? _____
What instrument is used to perform the surveys? _____ When was this instrument last calibrated? _____

6. On what date was the last physical inventory of all byproduct material in your possession performed? 10/1/2001
Were all sources accounted for? Yes No N/A

7. Do you perform leak tests on the sealed source? Yes No N/A
If yes, how often are these leak tests performed? Kevex 3/2001 Niton 2/2001
Who evaluates the leak test results? Manufacturer If no, describe the provisions you have made to have the leak tests done: Note: Niton leak tested 9/1999; 6/2000; 2/2001 and 9/2001

8. Describe your provisions for repair and maintenance of your device or source holder: Send to manufacturer.

9. Describe any unusual events involving the byproduct material or device(s) in which it is used: None

Name of person filling in questionnaire: _____ Date: 10/26/2001 and 11/27/2001
Title: Steven R. Courtemanche, Health Physicist