

**Arch Chemicals, Inc.
Treatment Products**

350 Knotter Drive
Cheshire, CT 06410
Tel 203.271.4000

*K-4*

March 27, 2007

Nuclear Materials Safety Branch
U.S. Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

030 36891

RE: Material License No. 06-08166-03

Licensing Assistance Section:

Please amend the referenced material license by deleting the Nickel-63 sealed sources provision in Section 6. The listed source was returned to Varian Chromatography Systems. The attached Certificate of Disposition includes results of a leak test performed by Varian Chromatography Systems on 2/27/2007. Results from the most recent leak test (8/8/2006) performed on the source prior to its return are also attached. The source has never been found to be leaking.


I would appreciate it very much if you take this action before 3/31/2007 so that we may avoid the paying the full-year annual fee for Fee Category 3P.

In addition, please update your records to remove Robert J. Fenn (listed in the renewal application dated 12/3/2003) as an Authorized User.

Sincerely,

James C. Ritter
Radiation Safety Officer
Arch Chemicals, Inc.
203-271-4026
203-271-4050 (FAX)

*140298***NMSS/RGN1 MATERIALS-002**

NRC FORM 314 (6-2004) 10 CFR 20.36(j)(1); 40.42(j)(1); 70.56(j)(1); and 72.54(j)(1)		U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OMB: NO. 3150-0028 EXPIRES: 06/30/2007 <small>Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submission is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 FS2), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to: infocoll@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.</small>	
CERTIFICATE OF DISPOSITION OF MATERIALS			
LICENSEE NAME AND ADDRESS ARCH CHEMICALS, INC. 350 KNOTTER DRIVE CHESHIRE, CT 06410		LICENSE NUMBER GENERAL LICENSEE XXXXXXXXXXXX DOCKET NUMBER ATTN: LAB MANAGER (203) 271-4000	
<div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> This license has expired.</div><div><input type="checkbox"/> A. LICENSE STATUS (Check the appropriate box) This license has not yet expired; please terminate it.</div></div>			
B. DISPOSAL OF RADIOACTIVE MATERIAL <i>(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments.)</i> The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:			
<div style="display: flex;"><div style="width: 20px;"><input type="checkbox"/></div><div>1. No radioactive materials have ever been procured or possessed by the licensee under this license.</div></div> <div style="display: flex;"><div style="width: 20px;"><input checked="" type="checkbox"/></div><div>2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:<div style="margin-left: 20px;"><input checked="" type="checkbox"/> a. Transfer of radioactive materials to the licensee listed below: 02-001972-00 S/N A10933 N163 15mCi <input checked="" type="checkbox"/> b. Disposal of radioactive materials:<div style="margin-left: 20px;"><input checked="" type="checkbox"/> 1. Directly by the licensee: STORED AT: VARIAN CHROMATOGRAPHY SYSTEMS 2700 MITCHELL DR., WALNUT CREEK, CA 94598 PH# (925) 939-2400 LIC# 0256-07 (CA) <input type="checkbox"/> 2. By licensed disposal site: <input type="checkbox"/> 3. By waste contractor: <input type="checkbox"/> c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.</div></div></div></div>			
C. SURVEYS PERFORMED AND REPORTED			
<div style="display: flex;"><div style="width: 20px;"><input checked="" type="checkbox"/></div><div>1. A radiation survey was conducted by the licensee. The survey confirms:<div style="margin-left: 20px;"><input type="checkbox"/> a. the absence of licensed radioactive materials <input type="checkbox"/> b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.</div></div><div style="display: flex;"><div style="width: 20px;"><input checked="" type="checkbox"/></div><div>2. A copy of the radiation survey results:<div style="margin-left: 20px;"><input checked="" type="checkbox"/> a. is attached; or <input type="checkbox"/> b. is not attached (Provide explanation); or <input type="checkbox"/> c. was forwarded to NRC on: _____ Date _____</div></div><div style="display: flex;"><div style="width: 20px;"><input type="checkbox"/></div><div>3. A radiation survey is not required as only sealed sources were ever possessed under this license, and <div style="margin-left: 20px;"><input type="checkbox"/> a. The results of the latest leak test are attached; and/or <input type="checkbox"/> b. No leaking sources have ever been identified.</div></div></div></div></div>			
The person to be contacted regarding the information provided on this form:			
NAME LARRY STEINWANDT	TITLE RADIATION SAFETY OFFICER	TELEPHONE (Include Area Code) (925) 939-2400	E-MAIL ADDRESS
Mail all future correspondence regarding this license to: VARIAN CHROMATOGRAPHY SYSTEMS, ATTN: RSO, 2700 MITCHELL DR., WALNUT CREEK, CA 94598			
C. CERTIFYING OFFICIAL I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT			
PRINTED NAME AND TITLE LARRY STEINWANDT, RSO FOR VARIAN, INC.	SIGNATURE 	DATE 2-27-07	
<small>WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.</small>			

IMPORTANT DOCUMENT

Keep this certificate and future leak test records for display on request by an inspecting radiation official. Failure to supply records may result in a citation, suspension of your license, and/or a fine.

CERTIFICATE OF LEAK TEST

The Electron Capture Detector (ECD) indicated below has been surveyed for external radioactive contamination as indicated in the Ni⁶³ Radiation Safety Manual, Publication 03-913999-00, paragraph 3.

Isotope: Ni⁶³

ISO 2919 Classification C42211

Activity: 555 MBq Maximum (15mCi)

Date: 2/27/07

ECD Serial No: A10933

Model No.: 02-001972-00

Source Serial No: —

The removable radioactivity from the surface of this ECD cell was measured to be:

.00001 microcuries

Note: Varian Chromatography Systems is required by the U.S. NRC and the California Department of Health to inform you that the Ni⁶³ ECD must be leak tested every 36 months.

The California Department of Health - Radiation Authority has granted an extension of the time required between leak tests (for Varian ECDs) from the standard 6 month interval, to a 36 month interval per "Registry of Radioactive Sealed Sources and Devices, Safety Evaluation of Devices," Number CA662D101B, which is on file with all radiation authorities.

Larry Steinwandt
Radiation Safety Officer
Varian Chromatography Systems
2700 Mitchell Drive
Walnut Creek, CA 94598



TM

NRD, LLC | 800-525-8076
 2937 ALT BOULEVARD | 716-773-7634
 PO BOX 310 | 716-773-7744 FAX
 GRAND ISLAND, NY
 14072-0310

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Arch Chemicals
 Attn: J. Ritter
 350 Knottter Drive
 Cheshire, CT 06410

NO: 5528

INVOICE DATE: 8/8/2006

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Arch Chemicals
 Attn: J. Ritter
 350 Knottter Drive
 Cheshire, CT 06410

DATE OF ANALYSIS

8/8/2006

CUSTOMER P.O.

QUANTITY ORDERED	DESCRIPTION	UNIT PRICE	AMOUNT
1	Wipe Test Analysis Wipes taken: 08-01-06 S/N A10933	\$50.00	\$50.00

NUMBER OF SAMPLES ANALYZED: 3

LEAK TEST METHOD:

Wipe Test

RADIOACTIVE MATERIAL:

Ni-63

PERSON PERFORMING TEST:

J. Ritter

/ ANALYSIS Douglas M. Davis

SAMPLE ANALYZED IN A:

- ☐ WINDOWLESS GAS FLOW PROPORTIONAL COUNTER
☐ ALPHA SCINTILLATION COUNTER
☒ LIQUID SCINTILLATION COUNTER
☐ OTHER

TESTS ARE WITHIN PRESCRIBED LIMITS ☒GREATER THAN PRESCRIBED LIMITS ☐

BKGD	E.F.
61	1.49

Radiation Safety Officer

Date 8-8-06

TEST RESULTS

WIPE	S/N	DPM	RESULT (uCi / Sample)
Entrance	A10933	0	<0.0001
Housing	A10933	0	<0.0001
Exit	A10933	0	<0.0001
		0	

ORIGINAL CERTIFICATE