

June 5, 2011

NRC Region III  
2443 Warrenville Road, Suite 210  
ATTN: Licensing Department  
Lisle, IL 60532-4352

Dear Sirs,

Refer to control # 574732.

It is ICAL, Inc. intentions to terminate NRC License # 12-24846-01, Docket # 030-29717. Please find attached form 314 along with a copy of source possession transfers and a copy of the radiological survey.

Linnea C. Harris  
Vice-President, ICAL, Inc.  
2130 Gary Court  
Decatur, IL 62526

Sincerely,



Linnea C. Harris

RECEIVED JUN 10 2011

### CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal 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 Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollects.Resource@nrc.gov](mailto:infocollects.Resource@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.

LICENSEE NAME AND ADDRESS

ICAL, INC.  
2130 GARY CT,  
Decatur, IL 62524

LICENSE NUMBER

12-24846-01

DOCKET NUMBER

030-29717

LICENSE EXPIRATION DATE

11/30/2012

#### A. LICENSE STATUS (Check the appropriate box)

This license has expired.

This license has not yet expired; please terminate it.

#### B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

1. No radioactive materials have ever been procured or possessed by the licensee under this license.

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.

a. Transfer of radioactive materials to the licensee listed below:

J.L. SHEPHERD & Associates  
1010 ARROYO AVE  
SAN FERNANDO, CA 91340

ITEMA  
10350 HEN PARK DR  
Springfield, FL  
62704

b. Disposal of radioactive materials:

1. Directly by the licensee:

CA  
NRC - 1777-19, Amendment 89  
2/4 6/6/11

2. By licensed disposal site:

IL - 01030-01

3. By waste contractor:

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.

#### C. SURVEYS PERFORMED AND REPORTED

1. A radiation survey was conducted by the licensee. The survey confirms:

a. the absence of licensed radioactive materials

b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.

2. A copy of the radiation survey results:

a. is attached; or  b. is not attached (Provide explanation); or  c. was forwarded to NRC on: \_\_\_\_\_ Date

3. A radiation survey is not required as only sealed sources were ever possessed under this license, and

a. The results of the latest leak test are attached; and/or

b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME Linnea Harris	TITLE VP ICAL, INC.	TELEPHONE (Include Area Code) (217) 423-5573	E-MAIL ADDRESS ICALINC@AOL.COM
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Mail all future correspondence regarding this license to:

#### C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE Linnea Harris VP ICAL, INC.	SIGNATURE Linnea C. Harris	DATE 4/5/2011
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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.

# JL SHEPHERD & ASSOCIATES

1010 ARROYO AVE., SAN FERNANDO, CALIFORNIA 91340-1822

818-898-2361 FAX 818-361-8095

## CERTIFICATION OF SOURCE/DEVICE POSSESSION TRANSFER

This document is to certify that on or about April 28, 2011, J.L. Shepherd and Associates took possession of and title to the following device/sources:

1 Each J.L. Shepherd and Associates Model 89-400 Calibration Range, S.N.#: 8245,  
With 1 Each Approximately 400 Curie Cs-137 Source, J.L. Shepherd and Associates  
Model 6810 Source Capsule, S.N.#: 03138GY And 1 Each 130 Millicurie Cs-137 Source,  
New England Nuclear Type G316B Source Capsule, S.N.#: 4109KR (as of 11/05/1991),

At: ICAL, Inc  
2130 Gary Court  
Decatur, IL 62526-3002

This source/device was shipped by J.L. Shepherd and Associates under the applicable Department of Transportation 49 Code of Federal Regulations and the U.S. Nuclear Regulatory Commission 10 Code of Federal Regulations, Part 71. This transfer of possession of the source/device took place in accordance with J.L. Shepherd and Associates State of California (a U.S. Nuclear Regulatory Commission Agreement State) Radioactive Materials License 1777-19, Amendment 89, Expiration Date 10/11/2018, in accordance with U.S. Nuclear Regulatory Commission 10CFR40.51. Acceptance of this quantity will not exceed the possession limit of the license.



J.L. Shepherd

President

J.L. Shepherd and Associates

Date: April 28, 2011



David Dempster (or authorized agent)

ICAL, Inc.

Date: April 28, 2011

# JL SHEPHERD & ASSOCIATES

1010 ARROYO AVE., SAN FERNANDO, CALIFORNIA 91340-1822

818-898-2361 FAX 818-361-8095


## CERTIFICATION OF SOURCE/DEVICE POSSESSION TRANSFER


This document is to certify that on or about April 28, 2011, J.L. Shepherd and Associates took possession of and title to the following device/sources:

1 Each J.L. Shepherd and Associates Model 28-5 Calibrator, S.N.#: 10253, With 1 Each Approximately 120 Millicurie Cs-137 Source, J.L. Shepherd and Associates Model 6810 Source Capsule, S.N.#: R-50 (as of 08/14/1991),

At: ICAL, Inc  
2130 Gary Court  
Decatur, IL 62526-3002

This source/device was shipped by J.L. Shepherd and Associates under the applicable Department of Transportation 49 Code of Federal Regulations and the U.S. Nuclear Regulatory Commission 10 Code of Federal Regulations, Part 71. This transfer of possession of the source/device took place in accordance with J.L. Shepherd and Associates State of California (a U.S. Nuclear Regulatory Commission Agreement State) Radioactive Materials License 1777-19, Amendment 89, Expiration Date 10/11/2018, in accordance with U.S. Nuclear Regulatory Commission 10CFR40.51. Acceptance of this quantity will not exceed the possession limit of the license.

  
J.L. Shepherd  
President  
J.L. Shepherd and Associates  
Date: April 28, 2011

  
David Dempster (or authorized agent)  
ICAL, Inc.  
Date: April 28, 2011

# JL SHEPHERD & ASSOCIATES

1010 ARROYO AVE, SAN FERNANDO, CALIFORNIA 91340-1822

818-898-2361 FAX 818-361-8095

## CERTIFICATION OF SOURCE POSSESSION TRANSFER

This document is to certify that on April 29, 2011, JL Shepherd & Associates, 1010 Arroyo Ave., San Fernando, California 91340 received from and took possession of the following check sources:

Tc-99. 0.006  $\mu\text{Ci}$ ., original date 12/15/1989, LGS S/N 805, S/N 1624/89  
Tc-99. 0.013  $\mu\text{Ci}$ ., original date 12/14/1989, LGS S/N 800, S/N 1625/89  
Tc-99. 0.003  $\mu\text{Ci}$ ., original date 12/15/1989, LGS S/N 801, S/N 1623/89  
Tc-99. 0.010  $\mu\text{Ci}$ ., original date 12/14/1989, LGS S/N 804, S/N 1626/89  
Tc-99. 0.005  $\mu\text{Ci}$ ., original date 08/11/1984, LGS S/N 413, S/N C-1469  
Tc-99. 0.382  $\mu\text{Ci}$ ., original date 06/15/1989, LGS S/N 776, S/N 1066/89  
Tc-99. 0.262  $\mu\text{Ci}$ ., original date 03/18/1987, LGS S/N 699A, S/N S4556  
Tc-99. 0.009  $\mu\text{Ci}$ ., original date 06/15/1989, LGS S/N 777, S/N 1065/98  
Am-241. 0.022  $\mu\text{Ci}$ ., original date 04/21/1978, LGS S/N -, S/N S-1754  
Th-230. 0.004  $\mu\text{Ci}$ ., original date 06/15/1989, LGS S/N 79, S/N 1062/89  
SrY-90. 0.002  $\mu\text{Ci}$ ., original date 01/11/1991, LGS S/N -, S/N 2236/91  
SrY-90. 0.0056  $\mu\text{Ci}$ ., original date 12/15/1989, LGS S/N -, S/N S3990  
Tc-99. 0.002  $\mu\text{Ci}$ ., original date 03/15/1990, LGS S/N 847, S/N M-150  
Tc-99. 0.002  $\mu\text{Ci}$ ., original date 03/15/1990, LGS S/N 846, S/N M-149  
Tc-99. 0.003  $\mu\text{Ci}$ ., original date 05/07/1993, LGS S/N 936, S/N DL234  
Tc-99. 0.002  $\mu\text{Ci}$ ., original date 03/15/1990, LGS S/N 845, S/N M-148  
Cs-137. 0.21  $\mu\text{Ci}$ ., original date 11/15/1992, LGS S/N -, S/N V-137

from: ICAL, 2130 Gary Court, Decatur, IL 62526, License # IL-01803-01

The source was packaged and transported by JL Shepherd & Associates under the applicable U.S. Department of Transportation 49 Code of Federal Regulations. This transfer of possession of the source/device took place in accordance with J.L. Shepherd and Associates State of California (a U.S. Nuclear Regulatory Commission Agreement State) Radioactive Materials License 1777-19, Amendment 89, Expiration Date 10/11/2018 and in accordance with U.S. Nuclear Regulatory Commission 10CFR40.51.

*Mary F. Shepherd*

Mary F. Shepherd  
Vice President, Licensing and Special Projects  
J.L. Shepherd and Associates  
Date: May 9, 2011



Illinois Emergency Management Agency  
Division of Nuclear Safety

Jonathon E. Monken, Director  
Joseph Klinger, Assistant Director

May 9, 2011

Radioactive Material License  
IL-01803-01

Kristen Dempster  
2130 Gary Court  
Decatur, IL 62526

RE: Transfer of Radioactive Sources

Ms. Dempster:

Thank you for your assistance and cooperation and that of your family in the matter of safely arranging transfer and responsibility of the radioactive sources held under the ICAL, Inc. radioactive material license. I was at the facility on Fridays April 29 and May 6, 2011 to observe that process and provide support.

On those two dates I observed a representative from J.L. Shepherd complete the removal, packaging and shipment of the irradiator sources to Shepherd's California facility as well as several other small quantity calibration and reference sources. At your earliest convenience, please provide us with copies of those transfer records and their most recent leak test results of those sources.

During my second visit I collected the remaining sources at the site and transferred them to the Illinois Emergency Management Agency's radioactive material license (IL-01030-01). Those four sources are Plutonium-239 electroplated disks from Eberline Instrument Corporation, in the S94-1 alpha standard set. They had serial numbers 9048 (LGS-389), 9049 (LGS-390), 9050 (LGS-391) and 9051 (LGS-392). They were determined on August 2, 1984 to have a NIST traceable activity of 871 picoCi, 8.61 nanoCi, 102, nanoCi and 1.07 microCi respectively.

I also performed a radiological survey of the calibration lab and the general premises. During the course of that survey using a ratemeter and 2X2 NaI gamma scintillation probe, I found no other discrete radioactive sources associated with the license. As I cautioned when we spoke that day, should you find any indication of such items from labels or identifications as you go through the remaining equipment on site, please set them aside and contact us so that we may evaluate them with you as to their potential hazard and advise you on their handling.



1035 Outer Park Drive • Springfield, Illinois • 62704 • Telephone (217) 785-9900 • <http://www.Iema.Illinois.gov>

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Again, thank you for your help in this matter. If you have any questions or concerns, please do not hesitate to contact me by phone at (217) 785-9929, by email at [daren.perrero@illinois.gov](mailto:daren.perrero@illinois.gov) or via fax at (217) 782-1328.

Sincerely,

A handwritten signature in black ink, appearing to read "Daren Perrero". The signature is fluid and cursive, with the first name "Daren" and last name "Perrero" clearly distinguishable.

Daren Perrero, Supervisor  
Inspection and Enforcement  
Radioactive Materials Section

DMP:dmp

ICAL, INC.  
RADIATION AND CONTAMINATION SURVEY

FORM 6-1  
REV. 2

NAME J. Jombke / [Signature] TYPE \_\_\_\_\_ MCF UNIT # \_\_\_\_\_ DATE 4/29/2011

AREA MCF INTERIOR (R) (C) 2 3 TIME 1430

LOCATION 2800 N. JASPER PURPOSE Release RCA - Transcribe IL & NRC License.

TYPE E-520 SERIAL 5500 CAL 3/8/2012

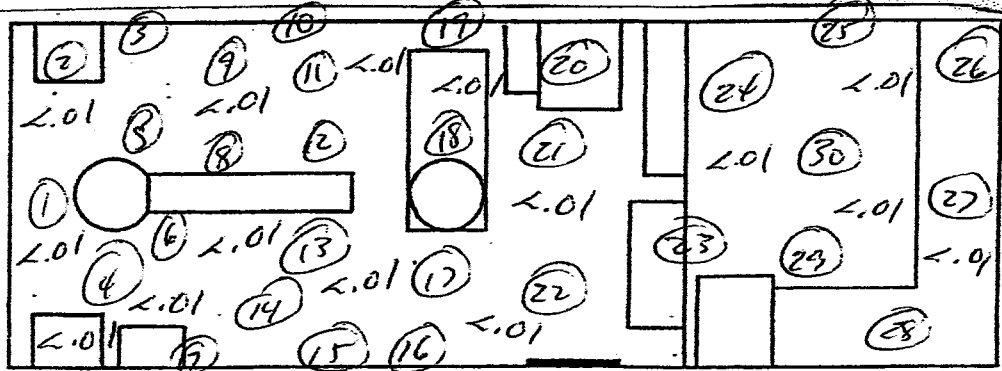
INST. MS-3 NUMBER 1229 DUE 2/13/2012

USED SAC-4 USED 1222 DATE 12/26/2011

Rm-20 1374 12/26/2011 BKG=30cpm

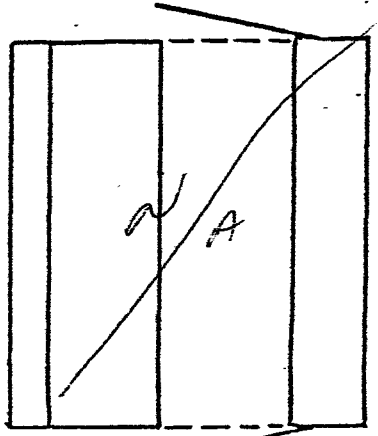
CONTAMINATION RESULTS  
MS-3 / SAC-4  
BKG = 25 / .15 CPM

Deposited RCA AFTER SOURCES REMOVED



SMEAR #	DPM/100 CM <sup>2</sup>	
	Beta/Gamma cmDA	ALPHA cmDA
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		

Direct Peak with Am 20 @ Smear Locations  
NDA ABOVE BKG.



MS-3 mDA  

$$3.29 \sqrt{\frac{25}{20} + \frac{25}{2}} = 64.6 \text{ dpm}$$
 .189

SAC-4 mDA  

$$3.29 \sqrt{\frac{.15}{20} + \frac{.15}{2}} = 2.19 \text{ dpm}$$
 .43

REMARKS:

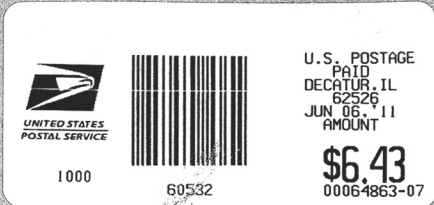
- @ NA SOURCES IN USE WITH NA ATTENUATION
- @ NA SOURCE STORED RADIATION READINGS NA mR/HR GEN. AREA

\* DENOTES CONTACT READING  
 CIRCLED # DENOTES SMEAR LOCATION.  
 ALL READINGS IN mR/HR UNLESS OTHERWISE DENOTED



ICAL INC.  
2130 Gary Ct  
Decatur, IL  
62526

ATTN  
L.S.



NRC Region III  
2443 WARRENVILLE Road, Suite 210  
ATTN: LICENSING Department  
Lisle, IL 60532-4352  
Reference Control # 574732

60532

