



August 26, 2008

Materials Licensing Section  
U.S. Nuclear Regulatory Commission, Region III  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

Re: Termination of NRC License Number 34-32658-01

Dear Sir/Madam:

As of January 31, 2008 we have removed our Troxler 3440 Nuclear Density/Moisture portable gauge from Fort Knox Military Reservation, Kentucky (a site under NRC jurisdiction) and stored it in our permanent storage site in Columbus, Ohio (an Agreement State). We are operating under the Ohio License number 31210250010.

We are in the process of renewing our Ohio License as indicated in the attached letter we have received from Ohio Department of Health Bureau of Radiation Protection.

Since we are not anticipating any work to be done in areas under NRC jurisdiction we would like to have our NRC License terminated before September 1, 2008 to avoid additional NRC Nuclear Material License charges.

If you have any questions about this transmission, please call me at 614 204-4060 or e-mail [acetintas@hockaden.com](mailto:acetintas@hockaden.com).

Sincerely,

Arif Cetintas, PhD  
Radiation Safety Officer

Enclosures:

Certificate of Disposition of Materials  
Copies of Report of Leak Tests  
Copy of Ohio Department of Health Letter  
Copy of Ohio License for Radioactive Material

RECEIVED AUG 28 2008

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 Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@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.

### CERTIFICATE OF DISPOSITION OF MATERIALS

LICENSEE NAME AND ADDRESS

**Hockaden and Associates, Inc.**  
**883 N Cassady Avenue**  
**Columbus, OH 43219**

LICENSE NUMBER

**34-32658-01**

DOCKET NUMBER

**030-37486**

LICENSE EXPIRATION DATE

**06/30/2017**

**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:  
**Hockaden and Associates, Inc. Ph. 614 252 0993 Ohio License no. 31210250010. Contact Dr. Arif Cetintas**
  - b. Disposal of radioactive materials:
    - 1. Directly by the licensee:
    - 2. By licensed disposal site:
    - 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 <b>Dr. Arif Cetintas</b>	TITLE <b>Radiation Safety Officer</b>	TELEPHONE (Include Area Code) <b>(614) 204-4060</b>	E-MAIL ADDRESS <b>acetintas@hockaden.com</b>
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Mail all future correspondence regarding this license to:  
**883 N Cassady Ave. Columbus, OH 43219**

**C. CERTIFYING OFFICIAL**

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

PRINTED NAME AND TITLE <b>ARIF CETINTAS, GEOLOGICAL ENGINEER</b>	SIGNATURE 	DATE <b>08/19/2008</b>
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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.**

Pacific Nuclear Technology  
2525 West 10<sup>th</sup> Street  
Antioch, CA 94509  
925-706-8300  
925-706-8396 Fax

## REPORT OF LEAK TEST

HOCKADEN & ASSOC  
ARIF CENTINTAS  
883 N CASSADY AVE  
COLUMBUS OH 43219

Model Number: 3440

Serial Number: T344 34182

Isotope:	Cs-137	8	mCi
	Am-241	40	mCi
			mCi

Date of Test: 5/1/2008

The sample identified above was submitted for leak test analysis.

Analysis Date: 5/8/2008 Analysis Number: K18870

Results: REMOVABLE  
CONTAMINATION: NIL microcurie

NOTE: The US Nuclear Regulatory Commission and the Agreement States require that the analysis of the wipe from a sealed source must be capable of detecting the presence of 0.005 microcurie (185 Bq) on the sample. The count on the wipe was below a Lower Limit of Detection of 0.0001 microcurie (3.7 Bq). The source is not considered leaking. This report should be retained for viewing by regulatory agencies.

Signed



Office of Radiation Safety  
Calif. RM License No. 5634-07

Pacific Nuclear Technology  
2525 West 10<sup>th</sup> Street  
Antioch, CA 94509  
925-706-8300  
925-706-8396 Fax

## REPORT OF LEAK TEST

HOCKADEN & ASSOC  
ARIF CENTINTAS  
883 N CASSADY AVE  
COLUMBUS OH 43219

Model Number: 3440

Serial Number: T344 34182

Isotope:	Cs-137	8	mCi
	Am-241	40	mCi
			mCi

Date of Test: 10/23/2007

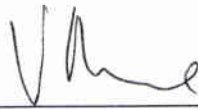
The sample identified above was submitted for leak test analysis.

Analysis Date: 10/25/2007      Analysis Number: K16647

Results:      REMOVABLE  
                  CONTAMINATION: NIL      microcurie

NOTE: The US Nuclear Regulatory Commission and the Agreement States require that the analysis of the wipe from a sealed source must be capable of detecting the presence of 0.005 microcurie (185 Bq) on the sample. The count on the wipe was below a Lower Limit of Detection of 0.0001 microcurie (3.7 Bq). The source is not considered leaking. This report should be retained for viewing by regulatory agencies.

Signed



Office of Radiation Safety  
Calif. RM License No. 5634-07



# OHIO DEPARTMENT OF HEALTH

246 North High Street  
Columbus, Ohio 43215

614/466-3543  
[www.odh.ohio.gov](http://www.odh.ohio.gov)

Ted Strickland/Governor

Alvin D. Jackson, M.D./Director of Health

August 1, 2008

Arif Cetintas, Ph.D.  
Radiation Safety Officer  
Hockaden and Associates  
883 N. Cassady Avenue  
Columbus, OH 43219

Re: 31210250010

Dr. Cetintas:

We are in receipt of your renewal license application dated July 23, 2008. However, we need further information before we can finalize authorization of your request. Please submit the following information:

1. You were previously licensed for material use at temporary job sites anywhere in the state of Ohio but did not request temporary job-site use under item 3. of the renewal application. Indicate whether you will use the gauges at a temporary job-site.
2. Under item 6. of your application you state that you will use CPN model MC-3, Troxler model 3440 and 3450 portable moisture/density gauges. Please specify the total number for each gauge type and also indicate the isotope and activity housed in each.
3. Provide an annotated drawing or sketch of the material storage area to include measures used to prevent unauthorized material access or use.
4. Provide your procedures to maintain device accountability during use.
5. The checklist you used to complete your application is inappropriate. You may access the appropriate NMS-LIC-01 guidance document for portable gauge licensees at the following web-site: <http://www.odh.ohio.gov/odhprograms/rp/radprot/radppub1.aspx>  
Complete the checklist from the appropriate guidance document and re-submit.

You are requested to provide the requested information by September 5, 2008.

I can be reached at 614-728-3341 or via e-mail at [Sangita.Desai@odh.ohio.gov](mailto:Sangita.Desai@odh.ohio.gov)

Sincerely,

*Sangita P. Desai*

Sangita P. Desai, Health Physicist  
Ohio Department of Health  
Bureau of Radiation Protection

**OHIO DEPARTMENT OF HEALTH  
LICENSE FOR RADIOACTIVE MATERIAL**

Pursuant to Chapter 3748 of the Ohio Revised Code, and in reliance on statements and representations made by the licensee, a license is hereby issued authorizing the licensee named herein to receive, acquire, possess, and transfer radioactive material as 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 applications of Chapter 3748 of the Ohio Revised Code and all applicable rules promulgated thereunder. This license is subject to all applicable rules, regulations and orders of the Ohio Department of Health now or hereinafter in effect and to any conditions specified below.

LICENSEE	LICENSE NUMBER
1. Hockaden and Associates	3. 31210250010
	EXPIRATION DATE
2. 883 N. Cassady Avenue Columbus, OH 43219	4. June 1, 2008
	BUREAU DOCKET NUMBER
	5. SD-03-04-03

6. RADIOACTIVE MATERIAL	7. CHEMICAL AND/OR PHYSICAL FORM	8. MAXIMUM QUANTITY THAT LICENSEE MAY POSSESS AT ANY ONE TIME UNDER THIS LICENSE
A. Americium-241	A. Sealed source	A. No single source to exceed 1.63 GBq (44 mCi)
B. Cesium-137	B. Sealed source	B. No single source to exceed 333 MBq (9 mCi)
C. Americium-241:Be	C. Sealed source	C. No single source to exceed 1.85 GBq (50 mCi)
D. Cesium-137	D. Sealed source	D. No single source to exceed 370 MBq (10 mCi)

9. Authorized Use
- A. and B. (2 gauges) To be used in a Troxler Model 3440 or Troxler Model 3450 Moisture / Density gauge for measuring physical properties of materials.
- C. and D. (1 gauge) To be used in a CPN Model MC-3 Moisture / Density gauge for measuring physical properties of materials.

CONDITIONS

10. Licensed material may only be used at the licensee's facilities located at:
- A. 883 N. Cassady Avenue, Columbus, OH 43219; and
- B. Temporary job-sites anywhere in the State of Ohio.
11. The Radiation Safety Officer for this license is:
- Arif Cetintas, Ph.D.
12. Licensed material shall be used by, or under the supervision and in the physical presence of individuals who have completed the gauge manufacturer's training program for gauge users or equivalent, have been instructed in the licensee's routine and emergency operating procedures and have been designated by the licensee's Radiation Safety Officer. The licensee shall maintain records of the individuals who have been designated as authorized users.

OHIO DEPARTMENT OF HEALTH <b>LICENSE FOR RADIOACTIVE MATERIALS</b> SUPPLEMENTARY SHEET	Page 2 of 3
	License Number: 31210250010
	Bureau Docket Number: SD03-04-03
	Amendment No. 2

13. All sealed sources that are used or obtained shall have been evaluated and approved under the provisions of OAC 3701:1-46-49 or by equivalent NRC, Agreement State, or NARM licensing state regulation.
14. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed six (6) months or at such other intervals as specified by the certificate of registration referred to in OAC 3701:1-46-49.
- 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 (3) months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into service until tested.
- D. Sealed sources need not be tested if:
- i) they contain only a radioactive gas; or
  - ii) the half-life of the isotope is 30 days or less; or
  - iii) they contain 3.7 MBq (100  $\mu$ Ci) or less of beta or gamma emitting material or 0.37 MBq (10  $\mu$ Ci) or less of alpha emitting material; or
  - iv) they 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- E. The leak test shall be capable of detecting the presence of 185 Bq (0.005  $\mu$ Ci) of radioactive material on the test sample. If the test reveals the presence of 185 Bq (0.005  $\mu$ Ci) or more of removable contamination, a report shall be filed with the Ohio Department of Health, and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Ohio Department of Health regulations. The report shall be filed within 5 days of the date the leak test result is known with the Bureau of Radiation Protection - Ohio Department of Health, 246 N. High St., P.O. Box 118, Columbus, Ohio 43216-0118. The report shall specify the source involved, the test results, and corrective action taken.
- F. Persons specifically licensed by the USNRC or an Agreement State to perform such services shall perform tests for leakage and/or contamination. In addition, the licensee is authorized to collect leak test samples but not perform the analysis: persons specifically licensed by the USNRC or an Agreement State to perform such services must perform analysis of leak test samples.
15. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.
16. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for at least 3 Years from the date of each inventory, and shall include: the quantities and kinds of licensed material, manufacturers name and model numbers, location of the sources and/or devices, and the date of the inventory.
17. When performing tests at temporary job sites, the authorized user shall not leave the moisture density gauge unattended. Upon completion of tests the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss or theft.
18. The licensee is authorized to transport licensed material only in accordance with Chapter 3701:1-50 of the Administrative Code.
19. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage, or when not under the direct surveillance of an authorized user.

OHIO DEPARTMENT OF HEALTH LICENSE FOR RADIOACTIVE MATERIALS SUPPLEMENTARY SHEET	Page 3 of 3
	License Number: 31210250010
	Bureau Docket Number: SD03-04-03
	Amendment No. 2


20. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or other persons specifically licensed by the Director, the NRC or an Agreement State to perform such services.
21. 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. The Ohio Department of Health's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated April 18, 2003.
  - B. Correspondence dated July 24, 2003. (*Amendment 1*).
  - C. Correspondence dated May 4, 2005. (*Amendment 2*).

For the Ohio Department of Health

DATE:

6/3/05

BY:

  
 Director, Ohio Department of Health



Jeanne Breden  
 HOCKADEN AND ASSOCIATES, INC  
 883 N. CASSADY AVENUE

COLUMBUS, OH 43219



JCL5060-008/20/23

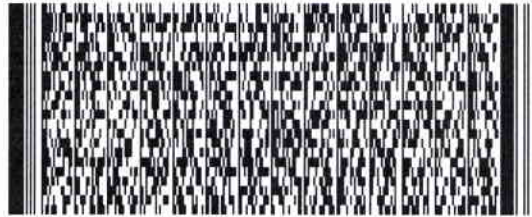
SHIP TO: (925) 706-8300 **BILL SENDER**  
**MATERIALS LICENSING SECTION**  
**U S NUCLEAR REGULATORY COMMISSION**  
**2443 WARRENVILLE RD STE 210**  
**REGION III**  
**LISLE, IL 60532**

ActWgt: 1.0 LB  
 System#: 1927952/INET8061  
 Account#: S \*\*\*\*\*

Delivery Address Bar Code



Ref # AC  
 Invoice #  
 PO #  
 Dept #

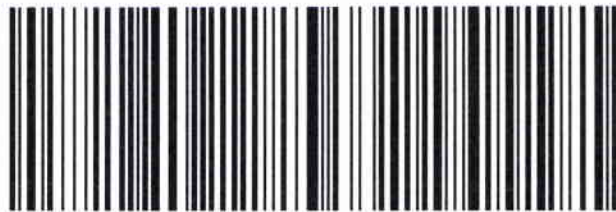


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