

Br. 2

<b>NRC FORM 313</b> <small>(06-2016)          10 CFR 30.32, 33, 34          35, 36, 37, 39, and 40</small>	<b>U.S. NUCLEAR REGULATORY COMMISSION</b>   <b>APPLICATION FOR MATERIALS LICENSE</b>	<b>APPROVED BY OMB: NO. 3160-0120</b> EXPIRES: 06/30/2019 Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to <a href="mailto:Infocollections.Resource@nrc.gov">Infocollections.Resource@nrc.gov</a> , and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10202, (3150-0120), 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.					
<b>INSTRUCTIONS: SEE THE CURRENT VOLUMES OF THE NUREG-1556 TECHNICAL REPORT SERIES ("CONSOLIDATED GUIDANCE ABOUT MATERIALS LICENSES") FOR DETAILED INSTRUCTIONS FOR COMPLETING THIS FORM: <a href="http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/">http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/</a>. SEND TWO COPIES OF THE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.</b>							
<b>APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:</b>  MATERIALS SAFETY LICENSING BRANCH DIVISION OF MATERIAL SAFETY, STATE, TRIBAL AND RULEMAKING PROGRAMS OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001  <b>ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:</b> <b>IF YOU ARE LOCATED IN:</b>  ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,  <b>SEND APPLICATIONS TO:</b> LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2100 RENAISSANCE BOULEVARD, SUITE 100 KING OF PRUSSIA, PA 19406-2713		<b>IF YOU ARE LOCATED IN:</b>  ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:  MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 Lisle, IL 60532-4352  ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING,  <b>SEND APPLICATIONS TO:</b> NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 1600 E. LAMAR BOULEVARD ARLINGTON, TX 76011-4511					
03037472							
<b>PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.</b>							
<b>1 THIS IS AN APPLICATION FOR (Check appropriate item)</b>  <input type="checkbox"/> A NEW LICENSE <input type="checkbox"/> B AMENDMENT TO LICENSE NUMBER <input checked="" type="checkbox"/> C RENEWAL OF LICENSE NUMBER <u>34-31247-01</u>		<b>2 NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)</b>  Pinnacle Environmental Consultants, Inc. 486 Old State Route 74 Cincinnati, Ohio 45244					
<b>3 ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</b>  Pinnacle Environmental Consultants, Inc. 500B Prestige Park Hurricane, West Virginia 25526 and Temporary Job Sites in West Virginia		<b>4 NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</b> Christopher A. Belcher <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>BUSINESS TELEPHONE NUMBER</b> (513) 533-1823</td> <td style="width: 50%;"><b>BUSINESS CELLULAR TELEPHONE NUMBER</b> (513) 383-4127</td> </tr> <tr> <td colspan="2"><b>BUSINESS EMAIL ADDRESS</b> cbelcher@pinnacleinc.biz</td> </tr> </table>		<b>BUSINESS TELEPHONE NUMBER</b> (513) 533-1823	<b>BUSINESS CELLULAR TELEPHONE NUMBER</b> (513) 383-4127	<b>BUSINESS EMAIL ADDRESS</b> cbelcher@pinnacleinc.biz	
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SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.							
<b>5 RADIOACTIVE MATERIAL</b> a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time		<b>6 PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED</b>					
<b>8 TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS</b>		<b>7 INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE</b>					
<b>10 RADIATION SAFETY PROGRAM</b>		<b>9 FACILITIES AND EQUIPMENT</b>					
<b>12 LICENSE FEES (Fees required only for new applications, with few exceptions*)</b> <small>(See 10 CFR 170 and Section 170.31)          *Amendments/Renewals that increase the scope of the existing license to a new or higher fee category will require a fee.</small>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>FEE CATEGORY</b></td> <td style="width: 50%;"><b>AMOUNT ENCLOSED \$</b></td> </tr> </table>		<b>FEE CATEGORY</b>	<b>AMOUNT ENCLOSED \$</b>		
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<b>13 CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT</b>  THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 37, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 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							
<b>CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE</b>  Christopher A. Belcher, President/Owner		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>SIGNATURE</b> </td> <td style="width: 50%;"><b>DATE</b> 6/23/17</td> </tr> </table>		<b>SIGNATURE</b> 	<b>DATE</b> 6/23/17		
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<b>FOR NRC USE ONLY</b>							
<b>TYPE OF FEE</b>	<b>FEE LOG</b>	<b>FEE CATEGORY</b>	<b>AMOUNT RECEIVED</b>	<b>CHECK NUMBER</b>	<b>COMMENTS</b>		
<b>APPROVED BY</b>				<b>DATE</b>			

NRC FORM 313 (06-2016)

REC'D IN LAT 6-23-17

599954  
NMSS/RGN1 MATERIALS-002



## PINNACLE ENVIRONMENTAL CONSULTANTS, INC.

CORPORATE OFFICE: 486 OLD STATE RT. 74 ■ CINCINNATI ■ OHIO ■ 45244 ■ PHONE: 513-533-1823 ■ FAX: 513-533-1859  
2088 ROSS AVENUE ■ CINCINNATI ■ OHIO ■ 45212 ■ PHONE: 513-533-1823 ■ FAX: 513-533-1859  
400D PRESTIGE PARK ■ HURRICANE ■ WEST VIRGINIA ■ 25526 ■ PHONE: 304-757-5204 ■ FAX: 304-757-5205

June 23, 2017

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

### **Re: Application for Radioactive Material License Renewal**

To Whom It May Concern;

This letter is to serve as an attachment to Pinnacle Environmental Consultants, Inc.'s application for a license renewal for radioactive material. The license is being obtained to be able to bring a Niton Xlp-300A and Heuresis Pb200i x-ray fluorescence analyzer (XRF), which the company already owns, into West Virginia for use at temporary job sites. Following are the responses that needed additional room and are noted in the application:

5. Radioactive Material – The source in the Niton Xlp-300A XRF is Cd-109, it is a sealed source and has a maximum activity of 40 mCi. The source is an IPL, model XFB-3, serial number tr3876. The source in the Heuresis Pb200i XRF is Co-57, it is a sealed source and has a maximum activity of 5 mCi. The source is an IPL, model A3901-2, serial number P1-653.
6. Purpose for which the licensed material will be used – The XRF's will be used to test for lead based paint.
7. Individual responsible for radiation safety program and their training experience – The radiation safety officer is Chris Belcher attached to this letter is a copy of my resume and training certificate from Niton and Heuresis.
8. Training for individuals working in or frequenting restricted areas – Before using licensed materials, authorized users will have successfully completed training from Niton and/or Heuresis on the proper use of the XRF, which includes general radiation safety.
9. Facilities and Equipment – The XRF will be kept in a locked storage cabinet inside the company's office when not in use and in the authorized users vehicle for transportation to temporary job sites. In addition, a lock will be placed on the case to further restrict access to the instrument.

10. Radiation Safety Program --

- a) Personnel Monitoring -- Pinnacle utilized film badges from April 2002 until April 2007, with no appreciable doses being detected. Therefore, we are not anticipated to exceed 10% of the annual limit while using either XRF based on this historical data and will not be performing dosimeter monitoring.
- b) Instrumentation -- Pinnacle Environmental Consultants, Inc. does not possess any type of instrumentation to scan the XRF if an accident were to occur. However, we will rent an instrument from HAZCO, in the event that an accident does occur, to check the instrument for leakage.
- c) Procedures -- Pinnacle Environmental Consultants, Inc. will implement and maintain the operating and emergency procedures and provide copies of these procedures to all users. In addition, a copy of the operating and emergency procedures will be kept in the XRF case with the appropriate phone numbers. Pinnacle will also maintain a log out sheet inside the storage cabinet that will list when the XRF was removed from the cabinet, the person who is using the instrument, where it was being used and when it was returned.
- d) Other -- Leak Tests -- Leak tests will be performed at 6 month intervals as required in the Sealed Source and Device Registration Sheet for the Niton XLP-300A. Leak tests will be performed at 12 month intervals as stated by Heuresis (see attached leak testing instructions from Heuresis) for the Heuresis Pb200i. Leak tests will be performed by authorized personnel following the instructions provided in the kit supplied by Valley Safety Services, who will perform the leak test analysis and is appropriately licensed to perform these services.
- e) Inventory -- A physical inventory will be conducted at an interval of 6 months.

11. Waste Management -- The instrument will be returned to the manufacturer for non-routine maintenance and source replacement.

If you have any questions or comments regarding our request, please do not hesitate to contact me at (513) 533-1823 or by email at [cbelcher@pinnacleinc.biz](mailto:cbelcher@pinnacleinc.biz).

Sincerely,

**Pinnacle Environmental Consultants, Inc.**



Christopher A. Belcher  
President

Attachments

**CHRISTOPHER A. BELCHER**  
**PRESIDENT**

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**RELEVANT EXPERIENCE**


Mr. Belcher's primary responsibility is insuring that the operations of Pinnacle Environmental Consultants, Inc. are accomplished in a professional and efficient manner. As president of Pinnacle, Mr. Belcher provides guidance and leadership to Pinnacle's technical staff. His input is required when evaluating new technologies, or other significant changes to Pinnacle's current operating methods. Mr. Belcher has over twenty-eight years of project design and project management experience in the asbestos abatement industry.

Other day to day responsibilities include building inspection procedures, asbestos abatement monitoring protocols, preparing job proposals, new account development, strategic planning, client base analysis, sales administration, presenting seminars, and technical editing of reports and related documentation.

Mr. Belcher has also been involved with the inspection, design and monitoring for removal of lead-based paint, PCB's and CFC's, along with the creation of confined space entry and other safety programs. Mr. Belcher's expertise is identifying the scope of work, relating the scope of work to bidders and managing the project for large or complex projects.

Mr. Belcher has developed and continually monitors administrative systems which allow for the efficient management and tracking of project related data, from inception of the contract through completion of project reports and billings. In addition, Mr. Belcher often provides innovative and unique input towards solutions to situations pertaining to personnel, market evaluations, and project planning.

**EDUCATION/CERTIFICATIONS**

Bachelor of Science, University of Charleston, 

Building Inspection Procedures & Management Planner, University of Cincinnati (AHES Certification, Ohio Department of Health)

Contractor/Supervisor, Asbestos Abatement Practices, University of Cincinnati

Asbestos Abatement Project Designer, University of Cincinnati (Project Designer Certification, Ohio Department of Health)

NIOSH 582 Method, Sampling and Evaluating Airborne Asbestos Dust, National Institute for Occupational Safety and Health

Certified Indoor Environmentalist, DeLisle and Associates LTD

Niton Corporation, Niton Spectrum Analyzer

Heuresis Corporation, Heuresis Instrument Operator Training Pb200i

**NITON<sup>®</sup>**

CORPORATION

# *Certificate of Achievement*

*Christopher Belcher*

*Pinnacle Environmental Consulting*

*has successfully completed the Manufacturer's Training Course for the*

**NITON Spectrum Analyzer** *and is now certified*

*in radiation safety and monitoring, measurement technology,*

*and machine maintenance of the NITON XRF Spectrum Analyzer.*

*(CIH's - The ABIH awards 1 CM point, approval #5827)*

99042649316

Certificate Number

01/16/99 Amelia, OH

Date & Site of Course



*Victoria Gryzbinski*

Training Coordinator

*Kenneth P. Wiant*

Director of Training

# *Certificate of Training*

Has completed the Heuresis Corp. training materials presented on the topic of Instrument Operator Training, Pb200i, with regards to the materials licensed by the Commonwealth of Massachusetts and the Nuclear Regulatory Commission.

## **Instrument Operator Training Heuresis Corporation, Pb200i**

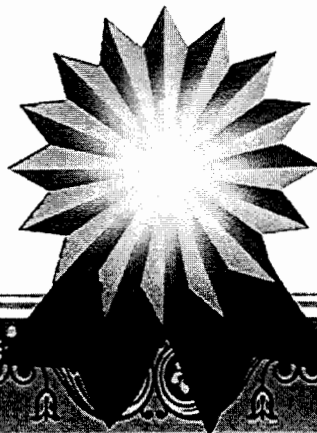
I confirm that the above named individual has received the training listed on this certificate.



Adam Robison  
Name

Sales and Product Specialist  
Title

January 9<sup>th</sup>, 2017  
Date



I certify that I have received the stated training and understand the content presented. I understand that I can follow up this training with questions from Heuresis Corporation.

Chris Belcher  
Name

January 9<sup>th</sup>, 2017  
Date

V(S)S A

**Valley Safety Services Associates, Inc.**

330 Old Enfield Road, Belchertown, MA 01007

<http://www.vssa-inc.com>

(413)323-9571

**Leak Test Data/Certificate**

Complete the data requested on the top part of this form and return it with your leak test to the address in the above heading. Following our analysis of your leak test specimen we will return this form to you for your record of the test and results.

**Source/Device Description**Device: XRF Analyzer Model: XP-300A Serial #: 161 981 Manufacturer: NitexRadioisotope Cd-109 Activity (mCi) 40Source model: XPB-3 Source #: tr 3 876 Manufacturer: EPL

The leak testing of this source/device was performed as indicated in manufacturer recommendations or LT-952 kit instructions using kit # 869322

By: Mark D Samples Date: 6-8-17Company: Pinnacle Environmental Consultants Telephone: 513-533-1823Address: 486 Old State Route 74 Fax: 513-533-1859  
Cincinnati OH 45274

Do Not Write Below This Line

**Leak Test Analysis Result**Analysis of the above test on 13 June 17 yielded the following:

- ☒ Statistical analysis of the radioactive count data of this leak test specimen indicated any activity present is less than 0.005  $\mu$ Ci. The source maybe used as authorized.
- ☐ Statistical analysis of the radioactive count data of this leak test specimen indicated there 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

13 Dec 17  
ANOTHER TEST KIT WILL BE SENT TO YOU 2 WEEKS BEFORE THIS DATE FOR YOUR USE AND RETURN FOR ANALYSIS.

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

CERTIFICATE #: 869322 BY: S. T. Davis DATE: 13 June 17





# Valley Safety Services Associates, Inc.

330 Old Enfield Road, Belchertown, MA 01007

<http://www.vssa-inc.com>

(413)323-9571

## Leak Test Data/Certificate

Complete the data requested on the top part of this form and return it with your leak test to the address in the above heading. Following our analysis of your leak test specimen we will return this form to you for your record of the test and results.

### Source/Device Description

Device: Source Model: Pb200i Serial #: 1428 Manufacturer: Heuresis Corp.

Radioisotope Co-57 Activity (mCi) 5 mCi

Source model: A3901-2 Source #: P1-653 Manufacturer: Eckert & Ziegler

The leak testing of this source/device was performed as indicated in manufacturer recommendations or LT-952 kit instructions using kit # 887998

By: Jimmy Failla Date: 12/8/16

Company: Heuresis Corporation Telephone: 617-467-5526

Address: 63 Chapel St. Fax: 617-467-5024  
Newton, MA 02458

Do Not Write Below This Line

## Leak Test Analysis Result

Analysis of the above test on 13 Dec 16 yielded the following:

- ☒ Statistical analysis of the radioactive count data of this leak test specimen indicated any activity present is less than 0.005  $\mu$ Ci. The source maybe used as authorized.
- ☐ Statistical analysis of the radioactive count data of this leak test specimen indicated there 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

13 June 17  
ANOTHER TEST KIT WILL BE SENT TO YOU 2 WEEKS BEFORE THIS DATE FOR YOUR USE AND RETURN FOR ANALYSIS.

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

CERTIFICATE #: 887998 BY: S. Toman DATE: 13 Dec 16





### **Leak Testing:**

The Heuresis Pb200i is required to have a leak test performed every twelve months (reference SS&DR when completed). The leak test kit is provided by the laboratory that performs the leak test analysis. A leak test is a wipe test of the outside of the instrument (See locations at the end of this section.). The seams of the front of the instrument are wiped to see whether radioactive contamination from the source has leaked for the sealed source (an extremely unlikely event) and contaminated the outside of the instrument.

State radiation control programs keep lists of approved leak test laboratories. Two options are as follows:

Valley Safety Services Associates  
330 Old Enfield Rd.  
Belchertown, MA 01007

Troxler Electronic Laboratories, Inc.  
3008 Cornwallis Road  
P.O. Box 12057  
Research Triangle Park, NC 27709

A copy of the leak test is required to be kept on file at your primary location of storage. It is useful to have with the instrument as well, and may be required or desired in certain transport situations. Heuresis recommends that you keep a copy of the leak test with the instrument transport case at all times.

It is important to keep all leak test reports, even after they expire. Regulations vary as to how long you need to keep them, but a minimum of two years of the leak test records should be kept. You should check your regulations if you do not keep all of the leak tests for an instrument.

If your leak test expires on an instrument, it must be taken out of use and placed in its secure storage location. The instrument must be clearly marked not to be used until a valid leak test is received. The instrument must have a valid leak to be transported.

Where to wipe:

Following the instructions of the leak test kit provider, wipe the areas shown on the following page.