

## Craffey, Ryan

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**From:** Jon Brown <jon.brown@mcdowasc.com>  
**Sent:** Wednesday, May 13, 2020 7:21 AM  
**To:** Craffey, Ryan  
**Subject:** [External\_Sender] RE: NRC Inspection Information  
**Attachments:** 2020 Leak Test.pdf

Good morning Ryan,

John Kalisz asked me to reply to your e-mail.

Regarding the audit, it will occur along with the second leak testing in July/ August. John Kalisz will call you to discuss the audit later.

Regarding the more recent leak test you inquired about, a copy of the XRF is attached for the leak test performed on 1/27/20.

If you have any questions, John Kalisz can be contacted in the office at (248) 399-2066 or via e-mail at [John.Kalisz@mcdowasc.com](mailto:John.Kalisz@mcdowasc.com)

Have a nice day.

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**From:** Craffey, Ryan [mailto:Ryan.Craffey@nrc.gov]  
**Sent:** Tuesday, May 12, 2020 3:08 PM  
**To:** Jon Brown  
**Cc:** John Kalisz  
**Subject:** RE: NRC Inspection Information

Hi Jon,

Thank you for the additional information!

John,

Inventories and hazmat training look good. Two more questions:

- What's the plan for completing the audit that Jon attached?
- Is there a more recent leak test for the XRF (nuke #44)?

Thanks!

**Ryan Craffey**  
Health Physicist  
US Nuclear Regulatory Commission  
Materials Inspection Branch, Region III  
(630) 829-9655

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**From:** Jon Brown <jon.brown@mcdowasc.com>  
**Sent:** Monday, May 11, 2020 2:00 PM

**To:** Craffey, Ryan <Ryan.Craffey@nrc.gov>

**Subject:** [External\_Sender] NRC Inspection Information

Good afternoon,

On behalf of John Kalisz with McDowell & Associates, I have attached a copy of the requested NRC inspection information.

If you have any questions, John Kalisz can be contacted in the office at (248) 399-2066 or via e-mail at [John.Kalisz@mcdowasc.com](mailto:John.Kalisz@mcdowasc.com)

Have a nice day.

# MCDOWELL AND ASSOCIATES

## Nuke List

Nuke #	Model #	Serial #	Calibrated	Leak Test	PURCHASED	OFFICE	PHYSICAL INVENTORY	CURRENT USER	HAZMAT EXPIRES
14	3430	28599	1/23/2020	1/9/2020	12/16/1998	FERNDALE	CHECKED - JKIII - 01/24/20	KYLE MULDER	2021
16	3440	32219	2/7/2020	1/24/2020	11/30/2000	FERNDALE	CHECKED - JKIII - 02/07/20	MARK LAPINSKI	2023
17	3440	32260	3/11/2020	2/21/2020	11/30/2000	FERNDALE	CHECKED - JKIII - 02/10/20	RACHEL SIETZ	2023
18	3440	32261	1/23/2020	1/9/2020	11/30/2000	FERNDALE	CHECKED - JKIII - 01/24/20	CLOSET	
19	3440	32633	1/23/2020	1/9/2020	3/19/1999	FERNDALE	CHECKED - JKIII - 01/24/20	CLOSET	
21	3430	35714	3/11/2020	2/21/2020	7/7/2004	FERNDALE	CHECKED - JKIII - 01/24/20	JACK WILSON	2022
22	3430	35711	1/23/2020	1/9/2020	7/7/2004	FERNDALE	CHECKED - JKIII - 01/24/20	CLOSET	
24	3440	33571	4/30/2020	3/26/2020	12/3/2004	FERNDALE	CHECKED - JKIII - 02/24/20	CLOSET	
30	3440	36348	2/18/2020	1/24/2020	5/20/2005	FERNDALE	CHECKED - JKIII - 02/21/20	ANDREW HALL	2023
31	3440	37682	3/11/2020	2/21/2020	5/25/2006	FERNDALE	CHECKED - JKIII - 02/10/20	CLOSET	
32	3440	37659	4/30/2020	3/26/2020	5/25/2006	FERNDALE	CHECKED - JKIII - 02/27/20	CLOSET	
33	3440	37683	3/11/2020	2/21/2020	5/25/2006	FERNDALE	CHECKED - JKIII - 02/10/20	CHUCK VINCE	2023
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35	3500	2435	3/10/2020	2/21/2020	6/28/2016	FERNDALE	CHECKED - JKIII - 02/10/20	LANGFORD BROWN	2023
36	3500	2436	2/7/2020	1/24/2020	6/28/2016	FERNDALE	CHECKED - JKIII - 02/07/20	JOHN HARDYWAY	2023
37	3500	2437	4/30/2020	3/26/2020	6/28/2016	FERNDALE	CHECKED - JKIII - 02/10/20	CLOSET	
38	3500	2438	4/30/2020	3/26/2020	6/28/2016	FERNDALE	CHECKED - JKIII - 02/20/20	KEITH LADZINSKI	2023
39	3500	2439	2/18/2020	1/24/2020	6/28/2016	FERNDALE	CHECKED - JKIII - 02/21/20	ELIZABETH KARINEN	2021
40	3500	2440	2/18/2020	2/7/2020	6/28/2016	FERNDALE	CHECKED - JKIII - 02/21/20	CLOSET	
41	3500	2441	2/18/2020	1/24/2020	6/28/2016	FERNDALE	CHECKED - JKIII - 02/21/20	REBECCA CONN	2023
42	3500	2442	3/11/2020	2/21/2020	6/28/2016	FERNDALE	CHECKED - JKIII - 03/16/20	NIGEL SALAZ	2023
43	3500	2443	1/23/2020	1/9/2020	6/28/2016	FERNDALE	CHECKED - JKIII - 01/24/20	MACKENZIE YOUNG	2023
44	XL-P300A	8621	10/18/2018	8/1/2019	8/26/2005	FERNDALE	CHECKED - JKIII - 01/24/20	ENVIRO OFFICE	

Radiation Safety Officer:

JKIII - JOHN KALISZ III

Next Inventory/Leak Test Scheduled: 7/20/2020

	IN CLOSET
	MIDLAND HAS NUKE
	BROKEN
	NEEDS LEAK TESTS DONE
	CALIBRATION REQUIRED
	IN GRAND RAPIDS FOR REPAIRS/CALIBRATION

INSTROTEK, INC.

4495 44TH ST. SE, SUITE A

GRAND RAPIDS, MI 49512

ADDITIONAL USERS	HAZMAT EXPIRES
JOHN KALISZ III	2023
IHSAN ALJAWAHERI	2023
BRIAN BIAUSTTO	2023
LORAN STENZEL	2023
MATT SHANNON	2022
BEN STENZEL	2021
LEAH SULLIVAN	2022
LUKE TRESNAK	2022

**RADIATION PROTECTION PROGRAM AND PORTABLE GAUGE  
AUDIT CHECKLIST**

Licensee: McDowell & Associates  
Date of Audit: \_\_\_\_\_

License No.: \_\_\_\_\_  
Date of Last Audit: \_\_\_\_\_

_____ Auditor Signature	_____ Auditor Printed Name	_____ Date
_____ RSO Signature	_____ RSO Printed Name	_____ Date

**1. Audit History**

- a. Any deficiencies identified in the previous audit?

\_\_\_\_\_

- b. Corrective actions taken:

\_\_\_\_\_

**2. Organization**

- a. Have the places of use and/or storage or mailing address changed since the last audit? If yes, was the license amended?

\_\_\_\_\_

- b. Were there any other changes that would require the amending of the license? i.e. change of ownership or Radiation Safety Officer, filing of bankruptcy, etc.

\_\_\_\_\_

- c. Are there copies or access to Sealed Source and Devices registration certifications available?

\_\_\_\_\_

- d. Are there copies of the manufacturer's manuals for operation and maintenance available?

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- e. Are the locations of use and actual uses of the gauges consistent with the license and Sealed Source and Devices registration certifications?

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- f. Is the current inventory of material below the possession limits listed on the license?

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**3. Training and Instruction to Workers**

- a. Is each gauge operator trained in accordance to with license requirements and are records of this training and any refresher training maintained?

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- b. Were all gauge users interviewed to ensure that they know proper operating, emergency, and security procedures?

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- c. Does each gauge user have current (within the past three years) U.S. Department of Transportation Hazardous Materials training?

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**4. Radiation Survey Instruments**

- a. Does the survey meter meet NRC requirements? [10 CFR 20.2103(a)]

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**5. Gauge Inventory**

- a. Is a record kept showing the receipt of each gauge?

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- b. Are all gauges physically inventoried every 6 months and are appropriate records of such inventories maintained?

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**6. Personnel Radiation Protection**

- a. Are considerations for keeping doses as low as is reasonably achievable (ALARA) incorporated into the Radiation Safety Program?

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- b. Regarding the approved NVLAP dosimetry supplied to all gauge users, are the dosimeters exchanged at the appropriate frequencies? Are all reports reviewed by the RSO when they are received and filed appropriately?

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c. Are there declared pregnant workers? If yes, are the proper dose and records being maintained?

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d. Are records of exposures, surveys, monitoring, and evaluations maintained?

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**7. Public Dose**

a. Are the gauges stored in a manner to keep doses to members of the public below 1 millisievert (100 mrem) in a year? [10 CFR 20.1301(a)(1)]

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b. Are gauges being stored in a manner that would prevent unauthorized use or removal?

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**8. Operating, Emergency, and Security Procedures**

a. Have any operating, emergency, or security procedures changed since the last audit? If yes, list below.

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b. Does each operator have current copies of the operating, emergency, and security procedures, including current emergency telephone numbers?

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c. Did any emergencies occur? If yes, were they handled properly and were appropriate corrective actions take?

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d. Were the gauges properly controlled or secured during storage or use? Are the gauges in storage being secured with two independent physical controls?

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**9. Leak Tests**

- a. Were sealed source leak tests performed as the license required, every 6 months?

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- b. Are records of leak test results retained with all the required information included?

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- c. Were any sources found to be leaking? If yes, was the NRC notified?

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#### **10. Maintenance of Gauges**

- a. Are manufacturer's procedures followed for routine cleaning and lubrication of the gauge?

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- b. Are all the required warning labels, signs, and postings identifying gauges containing radioactive material and radiation areas clean and legible?

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- c. Was any nonroutine maintenance involving the removal of the source or source rod performed according to license requirements?

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#### **11. Transportation**

- a. Were USDOT-7A authorized packages used and are the records on these packages maintained?

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- b. Were the packages properly marked, closed, sealed, and secured against movement during transport and storage?

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- c. Were shipping papers prepared with the correct information and used? If yes, were the shipping papers within arms reach of the driver during transport?

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- d. Were any incidents reported to the DOT?

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**12. Notification and Reports**

- a. Did any reportable incidents occur? Were the appropriated notifications made to the NRC Emergency Operations Center? Were the required written reports made as follow ups to any event?

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**13. Posting and Labeling**

- a. Is NRC Form 3, "Notice to Employees," posted?

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- b. Are the NRC regulations and license documents posted? Are any other posting and labelling requirements met?

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**14. Decommissioning**

- a. Were any locations of use or separate buildings decommissioned since the last audit? If yes, were the appropriate amendments made to the license?

**15. Evaluation of Other Factors**

- a. Does the RSO have sufficient time to perform his or her radiation safety duties?

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- b. Does the licensee have sufficient staff to support the Radiation Safety Program?

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**16. Deficiencies Identified in Audit and Corrective Actions**

- a. Summary of any problems and/or deficiencies identified during the audit:

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- b. Corrective actions with dates of implementation for ALL locations listed on license:

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42539030

# Certificate of Completion

*This is to certify that*

**Langford Brown**

*has completed a course of study in*

**102 - Hazardous Materials D.O.T. Training - Portable Nuclear Gauge**

*dated*

**02/24/2020**

*offered by*



Training satisfies US DOT training requirements of 49 CFR 172 and IATA including:

- Emergency Procedures
- Methods and procedures for avoiding accidents
- Hazardous materials identification and recognition
- Self-protection measures
- Regulations applicable to job function
- Security

Certification expiration: DOT - 3 years from date listed above

\_\_\_\_\_  
Company RSO Signature

American Technical Institute  
10161 Park Run Drive, Suite 150  
Las Vegas, Nevada 89145  
[www.usaati.com](http://www.usaati.com)



42372598

# Certificate of Completion

*This is to certify that*

**Rebecca Conn**

*has completed a course of study in*

**102 - Hazardous Materials D.O.T. Training - Portable Nuclear Gauge**

*dated*

**02/20/2020**

*offered by*



**American Technical Institute, LLC**

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Certification expiration: DOT -3 years from date listed above

\_\_\_\_\_  
Company RSO Signature

American Technical Institute  
10161 Park Run Drive, Suite 150  
Las Vegas, Nevada 89145  
[www.usaati.com](http://www.usaati.com)



42539104

# Certificate of Completion

*This is to certify that*

**Andrew Hall**

*has completed a course of study in*

**102 - Hazardous Materials D.O.T. Training - Portable Nuclear Gauge**

*dated*

**02/24/2020**

*offered by*



Training satisfies US DOT training requirements of 49 CFR 172 and IATA including:

- Emergency Procedures
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Certification expiration: DOT - 3 years from date listed above

\_\_\_\_\_  
Company RSO Signature

American Technical Institute  
10161 Park Run Drive, Suite 150  
Las Vegas, Nevada 89145  
[www.usaati.com](http://www.usaati.com)



42359442

# Certificate of Completion

*This is to certify that*

**Keith Ladzinski**

*has completed a course of study in*

**102 - Hazardous Materials D.O.T. Training - Portable Nuclear Gauge**

*dated*

**02/20/2020**

*offered by*



Training satisfies US DOT training requirements of 49 CFR 172 and IATA including:

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Certification expiration: DOT -3 years from date listed above

\_\_\_\_\_  
Company RSO Signature

American Technical Institute  
10161 Park Run Drive, Suite 150  
Las Vegas, Nevada 89145  
[www.usaati.com](http://www.usaati.com)



42431529

# Certificate of Completion

*This is to certify that*

**Charles Vince**

*has completed a course of study in*

**102 - Hazardous Materials D.O.T. Training - Portable Nuclear Gauge**

*dated*

**02/21/2020**

*offered by*




**American Technical Institute, LLC**

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- Self-protection measures
- Regulations applicable to job function
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Certification expiration: DOT - 3 years from date listed above

  
Company RSO Signature

**American Technical Institute**  
10161 Park Run Drive, Suite 150  
Las Vegas, Nevada 89145  
[www.usaati.com](http://www.usaati.com)

41977814

# Certificate of Completion

*This is to certify that*

**Jason Dana**

*has completed a course of study in*

**102 - Hazardous Materials D.O.T. Training - Portable Nuclear Gauge**

*dated*

**02/14/2020**

*offered by*



**American Technical Institute, LLC**

Training satisfies US DOT training requirements of 49 CFR 172 and IATA including:

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- Methods and procedures for avoiding accidents
- Hazardous materials identification and recognition
- Self-protection measures
- Regulations applicable to job function
- Security

Certification expiration: DOT - 3 years from date listed above

  
Company RSO Signature

American Technical Institute  
10161 Park Run Drive, Suite 150  
Las Vegas, Nevada 89145  
[www.usaati.com](http://www.usaati.com)



# MCDOWELL AND ASSOCIATES

## Nuke List

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Radiation Safety Officer:

JKIII - JOHN KALISZ III

	IN CLOSET
	MIDLAND HAS NUKE
	BROKEN
	NEEDS LEAK TESTS DONE
	CALIBRATION REQUIRED
	IN GRAND RAPIDS FOR REPAIRS/CALIBRATION

INSTROTEK, INC.

4495 44TH ST. SE, SUITE A  
GRAND RAPIDS, MI 49512

ADDITIONAL USERS	HAZMAT EXPIRES
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IHSAN ALJAWAHERI	2023
BRIAN BIAUSTTO	2023
ELIZABETH KARINEN	2021
LORAN STENZEL	2023
MATT SHANNON	2022
BEN STENZEL	2021
LEAH SULLIVAN	2022
LUKE TRESNAK	2022
KEITH LADZINSKI	2023

<u>Nuke #</u>	<u>Model #</u>	<u>Serial #</u>	<u>Calibrated</u>	<u>Leak Test</u>	<u>PURCHASED</u>	<u>OFFICE</u>	<u>PHYSICAL INVENTORY</u>	<u>CURRENT USER</u>	<u>HAZMAT EXPIRES</u>
20	3411 B	7274	6/11/2019	7/25/2019	5/31/2006	MIDLAND	CHECKED - EJ - 01/17/2020		
25	3430	31128	3/11/2020	2/20/2020	12/28/2001	MIDLAND	CHECKED - EJ - 01/17/2020	JASON DANA	2023
26	3440	31856	3/19/2019	7/25/2019	3/18/2002	MIDLAND	CHECKED - EJ - 01/17/2020		
28	3430	31591	3/19/2019	7/25/2019	5/25/2000	MIDLAND	CHECKED - EJ - 01/17/2020		
29	3440	32641	3/11/2020	2/20/2020	5/20/2005	MIDLAND	CHECKED - EJ - 01/17/2020	MATT WHEELER	2023

	IN CAGE
	BROKEN
	NEEDS LEAK TESTS DONE
	CALIBRATION REQUIRED
	IN GRAND RAPIDS FOR REPAIRS/CALIBRATION

EJ - ERIC JOHNSON      STEVE COLE      2023



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

**REPORT OF LEAK TEST**

**MC DOWELL & ASSOC**

JOHN KALISZ

21355 HATCHER AVE

FERNDALE

MI 48220

Model Number: XL-P300A

Serial Number: 8621

Isotope:	Cs-137	mCi
	Am-241	mCi
	Cd-109	40 mCi

Date of Test: 1/27/2020

The sample identified above was submitted for leak test analysis.

Analysis Date: 2/10/2020

Analysis Number: S48512

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