

# BARON CONSULTING CO.

HARRY AGAHIGIAN, Ph.D., DIRECTOR

**analytical services**  
P.O. Box 3337, MILFORD, CT 06460

February 17, 2014

GLTS U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Re: Classification of ECD's at Baron Consulting Company, License Number 06-17669-01.  
GLTS Recipient Code: 709584

After a review of the classification of ECD's that are at Baron Consulting Company by Todd J. Jackson, CHP of the USNRC Region I, an updated letter is being supplied per Mr. Jackson's recommendation.

Baron Consulting address is no longer: 273 Pepe's Farm Road  
Milford, CT 06460

The current address is: 181 Research Drive  
Suite 1  
Milford, CT 06460

This information had been supplied to the USNRC in 2013. It is being provided at this time to confirm that this change is in all the NRC records.

The following ECD's are currently in use in two GC's. Mr. Jackson informed us that they are currently listed as specifically licensed and should be listed under a general license because they have a label.

A. Device Key 648656 Archive Ind: N Manufacturer: Agilent Technologies, Inc.  
Manufacturer license number: 07-28762-02G  
Model No: 1923369576 Serial No: F2981 Status: C Isotope: Ni63 Activity: 15.0mCi  
Last Leak Test: 1/16/2014 Passed Test- Certificate attached.

B. Device Key 762888 Archive Ind: N Model Manufacturer: Perkin Elmer Instruments,  
Manufacturer License Number: 06-02135-12G  
Model No: N610-0063, Serial No: 5182, Status: C, Isotope: Ni63, Activity: 15.0mCi  
Last Leak Test: 1/16/2014 Passed Test- Certificate attached.

The following ECD's are currently in storage. Baron Consulting Company is currently getting quotes for disposal of these. The NRC will be contacted when this has been accomplished.

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NOT RESPONSIBLE FOR SAMPLES LEFT OVER 30 DAYS AFTER RECEIPT OF REPORT.

Connecticut Public Health Laboratory No. 0440 EPA Number CT015

LABORATORY LOCATED AT 181 RESEARCH DRIVE, UNIT 1, MILFORD, CT 06460 (203) 874-5678 FAX: (203) 874-7863

C. Model Manufacturer: Perkin Elmer Instruments, Model 330119,  
Serial No. 2721, Manufacturer Date: 9/82, Isotope: Ni63, Activity: 15mCi  
Last Leak Test: 4/2/13- Passed/Certificate attached.

D. Model Manufacturers: Perkin Elmer Instruments, Model No: N 610-0133,  
Serial No: 4903, Manufacturer Date: 5/06, Isotope: Ni63, Activity: 15mCi  
Last Leak Test: 4/2/13 Passed Test- Certificate attached

E. Model Manufacturer: Perkin Elmer Instruments, Model No: N 610-0133,  
Serial No: 2628, Manufacture Date: 9/97, Isotope: Ni63, Activity: 15mCi  
Last Leak Test: 4/2/13 Passed Test- Certificate attached

F. Model Manufacturer: Perkin Elmer Instruments, Model No: 3300119,  
Serial No: 2435, Manufacturer Date: 2/82, Isotope: Ni63, Activity: 15mCi  
Last Leak Test: 4/2/13 Passes Test- Certificate attached

G. Model Manufacturer: NRD, Inc Model No: 24500 Serial No: APR99 Manufacturer Date: 4/99  
Isotope: Po 210 Activity: 0.5mCi  
Last Leak Test: 4/2/13 Passed Test- Certificate attached

Mr. Jackson informed us that the following five (5) ECD's should be listed under a specific license.

H. Model Manufacturer: Unknown, Model No: Unknown,  
Serial No: SS206, Manufacturer Date: 8/19/94, Isotope: Ni63, Activity: 15mCi  
Last Leak Test: 4/2/13 Passed Test- Certificate attached

I. Model Manufacture: Unknown, Model No: Unknown,  
Serial No: SS 662, Manufacturer Date: 3/99, Isotope: N63, Activity: 10mCi  
Last Leak Test: 4/2/13 Passed Test- Certificate attached

J. Model Manufacturer: Unknown, Model No: Unknown,  
Serial No: 280, Manufacturer Date: 5/78 Isotope: Ni63 Activity: 10mCi  
Last Leak Test: 4/2/13 Passed Test- Certificate attached

K. Model Manufacturer: Unknown, Model No: Unknown,  
Serial No: SS524, Manufacturer Date: Unknown, Isotope: Ni63, Activity: 10mCi  
Last Leak Test: 4/2/13 Passed Test- Certification attached

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USNRC

L. Model Manufacturer: Unknown, Model No: Unknown,  
Serial No: S-125 Manufacturer Date: Unknown Isotope: Ni63 Activity: 10mCi  
Last Leak Test: 4/2/13 Passed Test- Certification attached

Please adjust your records to reflect Mr. Jackson's characterizations. Since the manufacturers no longer seem to be in the business of transferring the devices, Baron Consulting Company is reporting directly to NRC.

Please review the data and contact me if you have any questions or wish more information.

A handwritten signature in black ink, appearing to read "Barbara Obert", with a stylized flourish at the end.

Barbara Obert  
Laboratory Manager

Cc: Mr. Todd J. Jackson, CHP  
USNRC Region I

## SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
181 Research Drive, Unit 1  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

### SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **F2981**  
Activity **15 mCi**  
Make & Model **Hewlett Packard G1223A ECD**  
Device Number **GC / ECD**  
Wiped by \_\_\_\_\_ Date of Wipe **01/09/2014**

### RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu\text{Ci}$
Beta-Gamma	30	< 60	0.32	< 0.0001 $\mu\text{Ci}$

*removable is < 0.005  $\mu\text{Ci}$*

*PASS*

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu\text{Ci}$  or more of activity.

Microcurie conversion is  $\text{DPM} / 2.2 \times 10^6$

all sources are simultaneously checked for alpha and beta-gamma activity

January 16, 2014  
Date of Assay

4016.101  
NSS assay No.

Greg Fox

*Greg Fox*  
Assayed by

NSS 2437 Bay Area Blvd., #297 Houston, TX 77058 (Texas License L04339)

# SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
181 Research Drive, Unit 1  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

## SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **5182**  
Activity **15 mCi**  
Make & Model **Perkin Elmer N610-0063**  
Device Number **GC / ECD**  
Wiped by \_\_\_\_\_ Date of Wipe **01/09/2014**

## RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu\text{Ci}$
Beta-Gamma	30	< 60	0.32	< 0.0001 $\mu\text{Ci}$

*removable is < 0.005  $\mu\text{Ci}$*

**PASS**

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu\text{Ci}$  or more of activity.

Microcurie conversion is  $\text{DPM} / 2.2 \times 10^6$

all sources are simultaneously checked for alpha and beta-gamma activity

January 16, 2014  
Date of Assay

4016.102  
NSS assay No.

Greg Fox

*Greg Fox*  
Assayed by

NSS 2437 Bay Area Blvd., #297 Houston, TX 77058 (Texas License L04339)

Form-D



## SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
273 Pepe's Farm Road  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

### SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **4903**  
Activity **15 mCi**  
Make & Model **Perkin Elmer N610-0133**  
Device Number **GC / ECD**  
Wiped by \_\_\_\_\_ Date of Wipe **03/22/2013**

### RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu\text{Ci}$
Beta-Gamma	30	42	0.32	< 0.0001 $\mu\text{Ci}$

*removable is < 0.005  $\mu\text{Ci}$*

**PASS**

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu\text{Ci}$  or more of activity.

Microcurie conversion is  $\text{DPM} / 2.2 \times 10^6$

all sources are simultaneously checked for alpha and beta-gamma activity

April 2, 2013  
Date of Assay

3092.303  
NSS assay No.

Greg Fox

*Greg Fox*

NSS 2437 Bay Area Blvd., #297 Houston, TX 77058 (Texas License L04339)

# SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
273 Pepe's Farm Road  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

## SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **2628**  
Activity **15 mCi**  
Make & Model **Perkin Elmer N610-0133**  
Device Number **GC / ECD**  
Wiped by \_\_\_\_\_ Date of Wipe **03/22/2013**

## RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu$ Ci
Beta-Gamma	30	38	0.32	< 0.0001 $\mu$ Ci

*removable is < 0.005  $\mu$ Ci*

**PASS**

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005 uCi or more of activity.

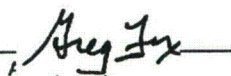
Microcurie conversion is DPM / 2.2 X10<sup>6</sup>

all sources are simultaneously checked for alpha and beta-gamma activity

April 2, 2013  
Date of Assay

3092.302  
NSS assay No.

Greg Fox



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## SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
273 Pepe's Farm Road  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

### SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **2721**  
Activity **15 mCi**  
Make & Model **Perkin Elmer 3300119**  
Device Number **GC / ECD**  
Wiped by

Date of Wipe **03/22/2013**

### RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu\text{Ci}$
Beta-Gamma	30	35	0.32	< 0.0001 $\mu\text{Ci}$

*removable is < 0.005  $\mu\text{Ci}$*

**PASS**

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu\text{Ci}$  or more of activity.

Microcurie conversion is  $\text{DPM} / 2.2 \times 10^6$

all sources are simultaneously checked for alpha and beta-gamma activity

April 2, 2013  
Date of Assay

3092.304  
NSS assay No.

Greg Fox

*Greg Fox*



## SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
273 Pepe's Farm Road  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

### SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **2435**  
Activity **10 mCi**  
Make & Model **3300119**  
Device Number **GC / ECD**  
Wiped by

Date of Wipe **03/22/2013**

### RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu$ Ci
Beta-Gamma	30	38	0.32	< 0.0001 $\mu$ Ci

*removable is < 0.005  $\mu$ Ci*

*PASS*

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu$ Ci or more of activity.

Microcurie conversion is DPM / 2.2 X10<sup>6</sup>

all sources are simultaneously checked for alpha and beta-gamma activity

April 2, 2013  
Date of Assay

3092.307  
NSS assay No.

Greg Fox

*Greg Fox*

NSS 2437 Bay Area Blvd., #297 Houston, TX 77058 (Texas License L04339)

## SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
273 Pepe's Farm Road  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

### SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **280**  
Activity **10 mCi**  
Make & Model **Perkin Elmer 5/78**  
Device Number **GC / ECD**  
Wiped by

Date of Wipe **03/22/2013**

### RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu$ CI
Beta-Gamma	30	40	0.32	< 0.0001 $\mu$ CI

*removable is < 0.005  $\mu$ CI*

**PASS**

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu$ CI or more of activity.

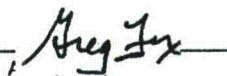
Microcurie conversion is  $\text{DPM} / 2.2 \times 10^6$

all sources are simultaneously checked for alpha and beta-gamma activity

April 2, 2013  
Date of Assay

3092.305  
NSS assay No.

Greg Fox



## SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
273 Pepe's Farm Road  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

### SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **S-125**  
Activity **10 mCi**  
Make & Model  
Device Number **GC / ECD**  
Wiped by

Date of Wipe **03/22/2013**

### RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu$ Ci
Beta-Gamma	30	41	0.32	< 0.0001 $\mu$ Ci

*removable is < 0.005  $\mu$ Ci*

**PASS**

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu$ Ci or more of activity.

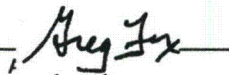
Microcurie conversion is DPM / 2.2 X10<sup>6</sup>

all sources are simultaneously checked for alpha and beta-gamma activity

April 2, 2013  
Date of Assay

3092.309  
NSS assay No.

Greg Fox



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## SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
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Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

### SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **SS662**  
Activity **10 mCi**  
Make & Model **3/99**  
Device Number **GC / ECD**  
Wiped by

Date of Wipe **03/22/2013**

### RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu$ Ci
Beta-Gamma	30	34	0.32	< 0.0001 $\mu$ Ci

*removable is < 0.005  $\mu$ Ci*

*PASS*

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu$ Ci or more of activity.

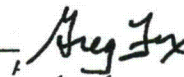
Microcurie conversion is DPM / 2.2 X10<sup>6</sup>

all sources are simultaneously checked for alpha and beta-gamma activity

April 2, 2013  
Date of Assay

3092.308  
NSS assay No.

Greg Fox





## SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
273 Pepe's Farm Road  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

### SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **SS-206**  
Activity **10 mCi**  
Make & Model **8/19/94**  
Device Number **GC / ECD**  
Wiped by

Date of Wipe **03/22/2013**

### RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu\text{Ci}$
Beta-Gamma	30	44	0.32	< 0.0001 $\mu\text{Ci}$

*removable is < 0.005  $\mu\text{Ci}$*

*PASS*

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu\text{Ci}$  or more of activity.

Microcurie conversion is  $\text{DPM} / 2.2 \times 10^6$

all sources are simultaneously checked for alpha and beta-gamma activity

April 2, 2013  
Date of Assay

3092.310  
NSS assay No.

Greg Fox

*Greg Fox*

## SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
273 Pepe's Farm Road  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

### SOURCE INFORMATION

Isotope **Nickel 63**  
Source Serial Number **SS524**  
Activity **10 mCi**  
Make & Model  
Device Number **GC / ECD**  
Wiped by

Date of Wipe **03/22/2013**

### RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu\text{Ci}$
Beta-Gamma	30	45	0.32	< 0.0001 $\mu\text{Ci}$

*removable is < 0.005  $\mu\text{Ci}$*

*PASS*

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu\text{Ci}$  or more of activity.

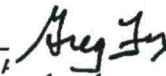
Microcurie conversion is  $\text{DPM} / 2.2 \times 10^6$

all sources are simultaneously checked for alpha and beta-gamma activity

April 2, 2013  
Date of Assay

3092.306  
NSS assay No.

Greg Fox



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Form-D

## SEALED SOURCE LEAK TEST CERTIFICATE

Baron Consulting Co., Inc.  
273 Pepe's Farm Road  
Milford, CT 06460

Attn: Ms. Barbara Obert  
phone: 203\874-5678  
code: 655

### SOURCE INFORMATION

Isotope **Polonium 210**  
Source Serial Number **APR 99**  
Activity **0.5 mCi**  
Make & Model **24500 (NRD, Inc.)**  
Device Number **GC / ECD**  
Wiped by \_\_\_\_\_ Date of Wipe **03/22/2013**

### RESULTS

	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 $\mu\text{Ci}$
Beta-Gamma	30	33	0.32	< 0.0001 $\mu\text{Ci}$

*removable is < 0.005  $\mu\text{Ci}$*

*PASS*

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005  $\mu\text{Ci}$  or more of activity.

Microcurie conversion is  $\text{DPM} / 2.2 \times 10^6$

all sources are simultaneously checked for alpha and beta-gamma activity

April 2, 2013  
Date of Assay

3092.301  
NSS assay No.

Greg Fox

*Greg Fox*

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Form-D



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Milford, CT 06460

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Washington, DC 20555-0001

