



7/10/17

Michelle Simmons  
Health Physicist  
US NRC  
1600 East Lamar Blvd.  
Arlington, Texas 76011

Mrs. Simmons,

This letter is in response to your email dated 6/29/17 in regards to License No. 11-27778-01, Docket No. 03036616, and Control No. 594617. The leak test that you requested are attached to this letter. Please let me know if you need anything else.

Thank you,



Chris Cole, RSO

HDR Engineering Inc.

**PUBLIC**

- Immediate Release
- Normal Release

**NON-PUBLIC**

- A.3 Sensitive-Security Related
- A.7 Sensitive Internal
- Other: \_\_\_\_\_

Reviewer: MS Date: 7/13/17



www.qaltek.com  
**Qal-Tek Associates**

1107 Wonder Drive Ste 104  
 Round Rock, TX 78681  
 Ph: 512 407-9252  
 Fax: 512 407-9831

**3998 Commerce Circle**  
**Idaho Falls, ID 83401**  
**Ph: 208 523-5557**  
**Fax: 208 524-8470**

557 East Juanita Ste 6  
 Mesa, AZ 85204  
 Ph: 480 304-5199  
 Fax: 480 966-9495

### SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Company: **HDR Engineering, Inc.**  
 Street: **25759 Highway 2**  
 City/St/Zip: **Sandpoint, ID 83864**  
 Phone: **208-691-1344**

Acct#: **103227** Ref#: **W17425-074794**

Serial Number: **36207**  
 Leak Test Date: **08-Aug-2016**

Fax: \_\_\_\_\_  
 Mfg: **Troxler** Model: **3430**

Leak Test Due Date: **08-Aug-2017**

#### Test Instrument

Test Instrument	BICRON : ELECTRA : 139
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#### Test Instrument Info

MDA	
alpha efficiency	25
beta efficiency	33
Det. Type	ZnS(Ag)
Last Cal. Date	01-Aug-2016

#### Test Results

Isotope	Source SN	Activity (mCi)	Assay Date	net alpha CPM	net b/Y CPM	alpha µCi	b/Y µCi	Pass/Fail
Am241		40 mCi		0	0	0	0	Pass
Cs137		8 mCi		0	0	0	0	Pass

#### Comments

Instrument Technician: Sam Burks  
 Date of Service: 08-Aug-2016

Qal-Tek Associates certifies that all leak test measurements are performed in accordance with NRC licensee requirements for isotopic detection limits. For this purpose the MDA is below the NRC regulatory limits of <0.005 uCi



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### SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Company: **HDR Engineering, Inc.**  
 Street: **25759 Highway 2**  
 City/St/Zip: **Sandpoint, ID 83864**  
 Phone: **208-691-1344**

Acct#: **103227** Ref#: **W17425-074795**

Serial Number: **2085**  
 Leak Test Date: **08-Aug-2016**

Fax: \_\_\_\_\_  
 Mfg: **CPN** Model: **MC-3**

Leak Test Due Date: **08-Aug-2017**

#### Test Instrument

Test Instrument	BICRON : ELECTRA : 139
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#### Test Instrument Info

MDA	
alpha efficiency	25
beta efficiency	33
Det. Type	ZnS(Ag)
Last Cal. Date	01-Aug-2016

#### Test Results

Isotope	Source SN	Activity (mCi)	Assay Date	net alpha CPM	net b/Y CPM	alpha µCi	b/Y µCi	Pass/Fail
Am241		50 mCi		0	0	0	0	Pass
Cs137		10 mCi		0	5	0	0.000007	Pass

#### Comments

Instrument Technician: Sam Burks

Date of Service: 08-Aug-2016

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 Fax: 480 966-9495

### SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Company: HDR Engineering, Inc.  
 Street: 412 E. Park Center Blvd. Suite 100  
 City/St/Zip: Boise, ID 83706  
 Phone: 208-387-7000 Fax:

Acct#: 102904 Ref#: W16848-072221

Serial Number: **37581** Mfg: Troxler Model: 3430  
 Leak Test Date: 14-Jun-2016

Leak Test Due Date: 14-Jun-2017

#### Test Instrument

Test Instrument	Ludlum : 3030 : 219696
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#### Test Instrument Info

MDA	less than 0.005 uCi
alpha efficiency	76.75
beta efficiency	66.77
Det. Type	ZnS (Ag)
Last Cal. Date	24-Feb-2016

#### Test Results

Isotope	Activity (mCi)	net alpha CPM	net b/Y CPM	alpha $\mu$ CI	b/Y $\mu$ CI	Pass/Fail
Am241	40 mCi	1	7	0.000001	0.000005	Pass
Cs137	8 mCi	1	3	0.000001	0.000002	Pass

#### Comments

Instrument Technician: Don Prescott  
 Date of Service: 14-Jun-2016

Qal-Tek Associates certifies that all leak test measurements are performed in accordance with NRC licensee requirements for isotopic detection limits. For this purpose the MDA is below the NRC regulatory limits of <0.005 uCi