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JRT**CALIBRATION SERVICES**

LOGBOOK# 118232

SEALED SOURCE LEAK TEST FORM / CERTIFICATE

OWNER: JRT Calibration Services
1200 E. High St. Suite #111
Pottstown, PA. 19464

ATTN: Harold W. Harbison
Radiation Safety Officer

PHONE # (610) 327-9610

FAX: (610) 327-9615

CUSTOMER WIPE TEST INFORMATION

SOURCE I.D. OR #: A0955

ISOTOPE: 137-Cs

ASSAY DATE: June 25, 1996

SOURCE ACTIVITY: 204.8 μ Ci

Swipe Date Taken: 2/16/06

2006 JUL 24 AM 9:19

RECEIVED
REGION 1**JRT COUNTING STD.**

Mfg. : LU DLUM Model : 261 Serial No. : 26387
Ludlum Well Counter Model # 241 s/n 137605

JRT-NIST Source STD.

137-Cs: s/n: S-829 (1.04 mCi)

Calibration Exp. Date : Nov. 9, 2006

COUNTING STANDARD EFF. : 7.5%
COUNT TIME (in Minutes) : 3 min.
BACKGROUND IN (CPM) : 356 Avg. BKG @ 118.67
GROSS CPM OF SAMPLE : 313 Net Avg. @ 104.33
NET DPM OF SAMPLE : Less Than Bkg

Count for: Alpha
Beta
☒ Gamma

The external surfaces of the source are wiped with a piece of absorbent material or a swube type cotton tip and the activity removed is measured.

The Acceptance limit : 0.0001 μ Ci alpha, 0.001 μ Ci beta-gammaSOURCE DETERMINATION : LEAKING : NOT LEAKING : ☒

LEAK TEST CERTIFICATION: The source was leak tested in accordance with the Leak Test Method stated above. The removable activity was found to be less than 0.001 μ Ci beta-gamma, and less than 0.0001 μ Ci alpha. This leak test should be performed every six months or as specified by a specific NRC or Agreement State license.

ACTION REQUIRED : NONE

TESTED BY : Daniel Stuck
INSPECTED BY : Harold W. Harbison R.S.O.

DATE: 2/17/06

DATE: 2/17/06

DUE: 8/17/06

FORM #10 REV#3

139124
NMSS/RGNI MATERIALS-002

JRT CALIBRATION SERVICES

LOGBOOK# 118232

SEALED SOURCE LEAK TEST FORM / CERTIFICATE

OWNER: JRT Calibration Services Inc.
1200 E. High Street Suite #111
Pottstown, PA. 19464

ATTN: Harold W. Harbison
Radiation Safety Officer

PHONE # (610) 327-9615

FAX: (610) 327-9615

CUSTOMER WIPE TEST INFORMATION

SOURCE I.D. OR # : 848-4 s/n 237

ISOTOPE: 137-Cs

ASSAY DATE: August 25, 1992

SOURCE ACTIVITY: 100 mCi

Swipe Date Taken: 2/16/06

JRT COUNTING STD.

Mfr. : LU DLUM Model : 261 Serial No. : 26387
Ludlum Well Counter Model # 241 s/n 137605

JRT-NIST Source STD.

Calibration Exp. Date : Nov. 9, 2006137-Cs: s/n S-829 (1.04 mCi)

COUNTING STANDARD EFF. : 7.5%
COUNT TIME (in Minutes) : 3 min.
BACKGROUND IN (CPM) : 356 Avg.BKG @ 118.67
GROSS CPM OF SAMPLE : 327 Net Avg. @ 109
NET DPM OF SAMPLE : Less Than Bkg

Count for: Alpha
 Beta
X Gamma

The external surfaces of the source are wiped with a piece of absorbent material or a swube type cotton tip and the activity removed is measured.

The Acceptance limit : 0.0001 μ Ci alpha, 0.001 μ Ci beta-gamma

SOURCE DETERMINATION : LEAKING : NOT LEAKING : X

LEAK TEST CERTIFICATION: The source was leak tested in accordance with the Leak Test Method stated above. The removable activity was found to be less than 0.001 μ Ci beta-gamma, and less than 0.0001 μ Ci alpha. This leak test should be performed every six months or as specified by a specific NRC or Agreement State license.

ACTION REQUIRED : NONE

TESTED BY : Daniel P. [Signature]DATE: 2/17/06CHECKED BY: Harold W. Harbison R.S.O.DATE: 2/17/06DUE: 8/17/06

FORM #10 REV



CALIBRATION SERVICES

LOGBOOK# 118232

SEALED SOURCE LEAK TEST FORM / CERTIFICATE

OWNER: JRT Calibration Services
1200 E. High St. Suite #111
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Radiation Safety Officer

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CUSTOMER WIPE TEST INFORMATION

SOURCE I.D. OR # : 1074-7-17ISOTOPE: 57-Co VialASSAY DATE: 8-1-04SOURCE ACTIVITY: 5.651 mCiSwipe Date Taken: 2/16/06

JRT COUNTING STD.

Mfgr. : LUDLUM Model : 261 Serial No. : 26387
Ludlum Well Counter Model # 241 s/n 137605

Calibration Exp. Date : 11-9-06

JRT-NIST Source STD.

57-Co: s/n 693-18 (1.034 uCi)

COUNTING STANDARD EFF. : 41.6%
COUNT TIME (in Minutes) : 3 min
BACKGROUND IN (CPM) : 834 Avg.BKG @ 278
GROSS CPM OF SAMPLE : 779 Net Avg. @ 259.67
NET DPM OF SAMPLE : Less Than Bkg

Count for: Alpha
 Beta
X Gamma

The external surfaces of the source are wiped with a piece of absorbent material or a swube type cotton tip and the activity removed is measured.

The Acceptance limit : 0.0001 uCi alpha, 0.001 uCi beta-gamma

SOURCE DETERMINATION : LEAKING : NOT LEAKING : X

LEAK TEST CERTIFICATION: The source was leak tested in accordance with the Leak Test Method stated above. The removable activity was found to be less than 0.001 uCi beta-gamma, and less than 0.0001 uCi alpha. This leak test should be performed every six months or as specified by a specific NRC or Agreement State license.

ACTION REQUIRED : None

TESTED BY : Daniel Strick
INSPECTED BY : Harold W. Harbison R.S.O.

DATE: 2/17/06DATE: 2/17/06

FORM #10

DUE: 8/17/06

JRT CALIBRATION SERVICES

LOGBOOK#: 118232

SEALED SOURCE LEAK TEST FORM / CERTIFICATE

OWNER: JRT Calibration Services
1200 E. High St. Suite #111
Pottstown, PA. 19464

ATTN: Harold W. Harbison
Radiation Safety Officer

PHONE # (610) 327-9610

FAX: (610) 327-9615

CUSTOMER WIPE TEST INFORMATION

SOURCE I.D. OR #: 10288ISOTOPE: 137-CsASSAY DATE: 6-13-1996SOURCE ACTIVITY: 8.3 CiSwipe Date Taken: 02-16-06

JRT COUNTING STD.

Mfgr. : LUDLUM Model : 261 Serial No. : 26387
Ludlum Well Counter Model # 241 s/n 137605

Calibration Exp. Date : 11-9-06

JRT-NIST Source STD.

137-Cs: s/n S-829 (1.04 mCi)

COUNTING STANDARD EFF. : 7.5%
COUNT TIME (in Minutes) : 3 min
BACKGROUND IN (CPM) : 356 Avg.BKG @ 118.67
GROSS CPM OF SAMPLE : 342 Net Avg. @ 114
NET DPM OF SAMPLE : Less Than Bkg

Count for: Alpha
 Beta
 X Gamma

The external surfaces of the source are wiped with a piece of absorbent material or a swube type cotton tip and the activity removed is measured.

The Acceptance limit : 0.0001 μ Ci alpha, 0.001 μ Ci beta-gamma

SOURCE DETERMINATION : LEAKING : NOT LEAKING : X

LEAK TEST CERTIFICATION: The source was leak tested in accordance with the Leak Test Method stated above. The removable activity was found to be less than 0.001 μ Ci beta-gamma, and less than 0.0001 μ Ci alpha. This leak test should be performed every six months or as specified by a specific NRC or Agreement State license.

ACTION REQUIRED : None

TESTED BY : Daniel StrickDATE: 2/17/06INSPECTED BY: Harold W. Harbison R.S.O.DATE: 2/17/06

FORM #10

DUE: 8/17/06



CALIBRATION SERVICES

LOGBOOK# 118232

SEALED SOURCE LEAK TEST FORM / CERTIFICATE

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ATTN: Harold W. Harbison
Radiation Safety Officer

PHONE # (610) 327-9610

FAX: (610) 327-9615

SOURCE I.D. OR # : A 3814 CUSTOMER WIPE TEST INFORMATION
ISOTOPE: ⁶⁰Co

ASSAY DATE: 09-10-1996 SOURCE ACTIVITY: 55.0 uCi
Swipe Date Taken: 2/16/06

JRT COUNTING STD.	
Mfgr. : <u>LUDLUM</u> Model : <u>261</u> Serial No. : <u>26387</u> <u>Ludlum Well Counter Model # 241 s/n 137605</u>	JRT-NIST Source STD. <u>137-Cs: S/N S-829 (1.04 mCi)</u>
Calibration Exp. Date : <u>11-9-06</u>	

COUNTING STANDARD EFF.	: <u>7.5%</u>	
COUNT TIME (in Minutes)	: <u>3 min</u>	
BACKGROUND IN (CPM)	: <u>356</u>	Avg.BKG @ <u>118.67</u>
GROSS CPM OF SAMPLE	: <u>306</u>	Net Avg. @ <u>102</u>
NET DPM OF SAMPLE	: <u>Less Than Bkg</u>	

Count for: Alpha
 Beta
X Gamma

The external surfaces of the source are wiped with a piece of absorbent material or a swube type cotton tip and the activity removed is measured.

The Acceptance limit : 0.0001 uCi alpha, 0.001uCi beta-gamma

SOURCE DETERMINATION : LEAKING : NOT LEAKING : X

LEAK TEST CERTIFICATION: The source was leak tested in accordance with the Leak Test Method stated above. The removable activity was found to be less than 0.001 uCi beta-gamma, and less than 0.0001uCi alpha. This leak test should be performed every six months or as specified by a specific NRC or Agreement State license.

ACTION REQUIRED : None

TESTED BY : <u>Daniel P. Harbison</u>	DATE: <u>2/17/06</u>
INSPECTED BY: <u>Harold W. Harbison R.S.O.</u>	DATE: <u>2/17/06</u>
FORM #10	DUE: <u>8/17/06</u>



CALIBRATION SERVICES

LOGBOOK# 118232

SEALED SOURCE LEAK TEST FORM / CERTIFICATE

OWNER: JRT Calibration Services
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ATTN: Harold W. Harbison
Radiation Safety Officer

PHONE # (610) 327-9610

FAX: (610) 327-9615

SOURCE I.D. OR # : A-0512 **CUSTOMER WIPE TEST INFORMATION**
ISOTOPE: Ba-133

ASSAY DATE: 06-25-1996 SOURCE ACTIVITY: 265.8 uCi
Swipe Date Taken: 2-16-06

JRT COUNTING STD.

Mfgr. : LUDLUM Model : 261 Serial No. : 26387
Ludlum Well Counter Model # 241 s/n 137605

Calibration Exp. Date : 11-9-06

JRT-NIST Source STD.

133-Ba Rod (0.111 uCi): s/n A4640

COUNTING STANDARD EFF. : 26.5%
COUNT TIME (in Minutes) : 3 min
BACKGROUND IN (CPM) : 562 Avg.BKG @ 187.33
GROSS CPM OF SAMPLE : 541 Net Avg. @ 180.33
NET DPM OF SAMPLE : Less Than Bkg

Count for: Alpha
Beta
X Gamma

The external surfaces of the source are wiped with a piece of absorbent material or a swube type cotton tip and the activity removed is measured.

The Acceptance limit : 0.0001 uCi alpha, 0.001 uCi beta-gamma

SOURCE DETERMINATION : LEAKING : _____ NOT LEAKING : X

LEAK TEST CERTIFICATION: The source was leak tested in accordance with the Leak Test Method stated above. The removable activity was found to be less than 0.001 uCi beta-gamma, and less than 0.0001 uCi alpha. This leak test should be performed every six months or as specified by a specific NRC or Agreement State license.

ACTION REQUIRED : None

TESTED BY : Daniel Stueck DATE: 2/17/06
INSPECTED BY: Harold W. Harbison R.S.O. DATE: 2/17/06
FORM #10 DUE: 8/17/06