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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 uCi

Swipe Date Taken: 2/16/06

2006 JUL 24 AM 9:19

RECEIVED
REGION 1

JRT COUNTING STD.

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

Calibration Exp. Date : Nov. 9, 2006

JRT-NIST Source STD.

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

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>313</u>	Net Avg. @ <u>104.33</u>
NET DPM OF SAMPLE	: <u>Less Than Bkg</u>	

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 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 Struck

DATE: 2/17/06

INSPECTED BY: Harold W. Harbison R.S.O.

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. 19464ATTN: Harold W. Harbison
Radiation Safety Officer

PHONE # (610) 327-9615

FAX: (610) 327-9615

CUSTOMER WIPE TEST INFORMATIONSOURCE I.D. OR #: 848-4 s/n 237ISOTOPE: 137-CsASSAY DATE: August 25, 1992SOURCE ACTIVITY: 100 mCiSwipe Date Taken: 2/16/06**JRT COUNTING STD.**Mfr. : LUDLUM 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 BkgCount 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-gammaSOURCE 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 : NONETESTED BY : David D. [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
Pottstown, PA. 19464ATTN: Harold W. Harbison
Radiation Safety Officer

PHONE # (610) 327-9610

FAX: (610) 327-9615

CUSTOMER WIPE TEST INFORMATIONSOURCE 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.**Mfr. : LUDLUM Model : 261 Serial No. : 26387
Ludlum Well Counter Model # 241 s/n 137605

JRT-NIST Source STD.

57-Co: s/n 693-18 (1.034 uCi)Calibration Exp. Date : 11-9-06COUNTING 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 BkgCount 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 uCi alpha, 0.001uCi beta-gammaSOURCE 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 : NoneTESTED BY : Daniel StrackDATE: 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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1200 E. High St. Suite #111
Pottstown, PA. 19464ATTN: 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.

Mfr. : LUDLUM Model : 261 Serial No. : 26387
Ludlum Well Counter Model # 241 s/n 137605Calibration 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 BkgCount 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 : David StrickDATE: 2/17/06INSPECTED BY: Harold W. Harbison R.S.O.DATE: 2/17/06

FORM #10

DUE: 8/17/06



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Radiation Safety Officer

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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. : 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 : 306 Net Avg. @ 102
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 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 : David Stein DATE: 2/17/06

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

FORM #10 DUE: 8/17/06



CALIBRATION SERVICES

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 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
 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