



M & L Testing Equipment (1995) Inc.
31 Dundas St. E. (Hwy #5) Dundas, ON L9H 7H8
905-689-7327 800-263-9244 Fax: 905-689-3978
e-mail: info@mltest.com

CERTIFICATE of LEAK TESTING For Sealed Radioactive Sources

This is to certify that the sealed sources possessed by the licensee as listed below have been leak tested by the sampling and measuring methods indicated. The measured leakage, if any, is less than the allowable regulatory limit of 200 Bq set by the Canadian Nuclear Safety Commission. Please retain this proof of testing for a minimum of three years.

Licencee Information

Licencee: HOTWELL CANADA LTD.
Business Address: 516 Moraine Rd. NE
Calgary, Alberta
T2A 2P2

CNSC Licence No.: 13678
Contact Person: HERMANN KRAMER
Phone/Fax No.: (403) 852-3477

Leak Testing Services Information

	SAMPLER	MEASURER
Contact name:	Rob Roche	Rob Roche
Company Name:	M&L Testing Equipment (1995) Inc	M&L Testing Equipment (1995) Inc

Nuclear Gauge / Serial No.	NEEI 71-1 / 127	
Isotope / Quantity	Am-241Be / 111GBq	
Counts measured in cpm	0	
Counting Efficiency	0.3	
Activity in Bq	0	
Counting Date	10/30/2009	
Action to be taken	NIL	

Dry Wipe Sampling - A dry Q-tip was brought into direct contact with the source holder and different parts of the source housing interfaces. Each Q-tip was then returned to its numbered tube, and held for counting. (Refer to procedure M&L LTSP-06)

Ludlum 3030E Counting System - each sample was measured for alpha and beta activity on a dual channel Ludlum 3030E counting system. The lower limit of detection is 5 Bq for alpha and beta radiation. The measuring efficiencies are available in M&L Measuring Procedure LTMP-06.

Action to be taken: Sources which meet the CNSC criterion of < 200 Bq leakage remain in service. Any source which fails to meet this criterion will be taken out of service, placed in secure storage, and retested to determine actual leakage. Leaking sources are reported to the CNSC and disposed if deemed beyond repair.

Certified By:

Date: October 30, 2009



ALARA Consultants Inc.
9556-27 Avenue
Edmonton, AB T6N 1B2
Tel (780) 944-2557
Fax (780) 944-2558
www.alaraconsultants.com

SEALED RADIOACTIVE SOURCE LEAK TEST MEASUREMENT CERTIFICATE

LICENSEE INFORMATION

Company Name: Hotwell Canada	CNSC Licence #: 13678-2-11.2
Contact Person: Rodney Kleim	Telephone Number: 403-852-3477
Address: 516 Moraine Rd. N.E. Calgary, AB T2A 2P2	Fax Number: (403)247-3482

MEASUREMENT PARAMETERS

Radioisotope	Measurement Method	Equipment Description:	Calibration Date	Verification Date	Detection efficiency (%)	Background Count (CPM)	*S-B min (CPM)
Am241Be	Gamma Counter	Packard Cobra	1 May 2011	5 May 2011	35	127	28

NOTE: *S-Bmin refers to the minimum number of counts above background that have to be detected in order for the NET CPM value (below) to be considered significant at the 95% confidence level.

MEASUREMENT RESULTS Gamma Industries NB-HP 256 Am241Be

Sample Date	Kit#	Source ID:	Radioisotope	Gross CPM	Net CPM	Bq Value	Conclusion of Leak Test
27 Apr 2011	256	256	Am241Be	126	-1	Background	< CNSC criterion of 200 Bq

COMMENTS/ACTIONS

All leak test sample measurements were less than the CNSC leak test criterion of 200 Becquerels. No action required.

Measurement Date: 5 May 2011

Measurer Name: Deryck Burgess

Next Leak Test Due: May 05, 2012

Signature: Deryck Burgess



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Calgary, Alberta
T2A 2P2

CNSC Licence No.: 13678
Contact Person: HERMANN KRAMER
Phone/Fax No.: (403) 852-3477

Leak Testing Services Information

	SAMPLER	MEASURER
Contact name:	Rob Roche	Rob Roche
Company Name:	M&L Testing Equipment (1995) Inc	M&L Testing Equipment (1995) Inc

Nuclear Gauge / Serial No.	GI - NB-HP / 256	
Isotope / Quantity	Am-241Be / 112.48GBq	
Counts measured in cpm	0	
Counting Efficiency	0.3	
Activity in Bq	0	
Counting Date	10/30/2009	
Action to be taken	NIL	

Dry Wipe Sampling - A dry Q-tip was brought into direct contact with the source holder and different parts of the source housing interfaces. Each Q-tip was then returned to its numbered tube, and held for counting. (Refer to procedure M&L LTSP-06)

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SEALED RADIOACTIVE SOURCE LEAK TEST MEASUREMENT CERTIFICATE

LICENSEE INFORMATION

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Contact Person:	Rodney Kleim	Telephone Number:	403-852-3477
Address:	516 Moraine Rd. N.E. Calgary, AB T2A 2P2	Fax Number:	(403)247-3482

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Radioisotope	Measurement Method	Equipment Description:	Calibration Date	Verification Date	Detection efficiency (%)	Background Count (CPM)	*S-B min (CPM)
Am241Be	Gamma Counter	Packard Cobra	1 May 2011	5 May 2011	35	127	28

NOTE: *S-Bmin refers to the minimum number of counts above background that have to be detected in order for the NET CPM value (below) to be considered significant at the 95% confidence level.

MEASUREMENT RESULTS Gulf Nuclear 71-1 127 Am241Be

Sample Date	Kit#	Source ID:	Radioisotope	Gross CPM	Net CPM	Bq Value	Conclusion of Leak Test
27 Apr 2011	127	127	Am241Be	118	-9	Background	< CNSC criterion of 200 Bq

COMMENTS/ACTIONS

All leak test sample measurements were less than the CNSC leak test criterion of 200 Becquerels. No action required.

Measurement Date: 5 May 2011

Measurer Name: Deryck Burgess

Next Leak Test Due: May 05, 2012

Signature: Deryck Burgess

Applied Health Physics, Inc.

2986 Industrial Blvd., Bethel Park, Pa 15102 Phone: (412) 835-9555 Fax: (412) 835-9559
E-Mail address: ahp.inc@comcast.net - Web Page address: WWW.APPLIEDHEALTHPHYSICS.COM

Mark V Leak Test Certificate

This certificate shall not be reproduced except in full, without the written approval of Applied Health Physics, Inc.

Device Information

Device Serial Number:	NB-256	Source Serial Number:	NB-256
Device Manufacturer:	Roke Technologies	Source Manufacturer:	Gamma Industries
Device Model:	MCT	Source Model:	NB (HP)
Device Type: Other	Make:	Location:	
Radioisotope: AM-241Be	Activity: 3 Ci (111 GBq)		

Leak Test Information

Leak Test Performed by:	Jason Booher	Leak Test Performed on:	10/28/2010
Leak Test Specimen Number:	A-026410	Leak Test Analysis Date:	11/1/2010
Leak Test Analysis Performed by:	C. Barto		
Leak Test Results Indicate an Activity of:	< 0.005 uCi		

Notification

The analysis of this leak test sample was provided by Applied Health Physics, Inc. Pennsylvania Department of Environmental Protection License Number PA-0228A. In the event this specimen indicates leakage and or contamination in excess of 0.005 microcuries, Applied Health Physics, Inc. will notify you promptly by telephone; at such time you will need to take the appropriate actions required by the governing regulatory agency.

Client Information

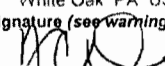
Horizontal Wireline Services, LLC	Contact:	Joe Sites
2900 Jacks Run Road	Phone:	(972) 951-8725
	Contact:	
	Phone:	
White Oak	PA	15131

This certificate is an essential record and should be maintained for inspection by the regulatory agency.

Next LT Due 4/28/2011

127, 256

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper: Horizontal Wireline Services, LLC 2900 Jacks Run Road White Oak, PA 15131				Air Waybill No.: 8685-7865-9277 8736 7884 5476 Page 1 of 1 Page(s) Shipper's Reference Number: HWS-0211-1 (optional)			
Consignee: Roke / Hotwell Services 516 Moraine Road, NE Calgary Alberta, Canada T2A 2P2 Attention: Hermann Kramer Telephone: 403-852-3477							
Two completed and signed copies of this Declaration must be handed to the operator.				WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.			
TRANSPORT DETAILS							
This shipment is within the limitations prescribed for (delete non-applicable):		Airport of Departure					
CARGO AIRCRAFT ONLY							
Airport of Destination:				Shipment type (delete non-applicable):			
				RADIOACTIVE			
NATURE AND QUANTITY OF DANGEROUS GOODS							
Dangerous Goods Identification							
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Packing Group	Quantity and type of packing		Packing Instructions	Authorization
UN3332	Radioactive material, Type A package, special form - RQ	7		Am-241	111.000 GBq	III-Yellow T.I. = 6.5 L = 36 cm W = 36 cm H = 36 cm	Special Form Certificate: USA/0114/S-96 Rev.7
				Solid/Metal			
UN3332	Radioactive material, Type A package, special form - RQ	7		Am-241	111.000 GBq	III-Yellow T.I. = 6.5 L = 36 cm W = 36 cm H = 36 cm	Special Form Certificate: USA/0166/S-96 Rev.10
				Solid/Metal			
Additional Handling Information: 1. This shipment may be carried on passenger aircraft outside U.S. jurisdiction. 2. Shipment prepared in accordance with 49CFR 171.23 and 171.24. 3. ERG Code 7L 4. 24 Hour Emergency Response Telephone Number: Applied Health Physics, Inc. 1-800-332-6648 5. Package I.D. #: RHS-0211-1 . Seal #(s): 001387 ; Package I.D. #: RHS-0211-2 . Seal #(s): 001138							
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.						Name / Title of Signatory TAMARA DELMER-ADMIN Place and Date White Oak PA USA Signature (see warning above) 	

HOTWELL

CANADA LTD.

Hotwell Canada Ltd.
516 Moraine Rd NE
Calgary Alberta T2A 2P2

April 22, 2010

Attention: RSO

Re: Device Transfer

To Whom it May Concern,

This letter is to acknowledge that Horizontal Wireline Services, LLC has taken possession of the following radioactive material as of April 16, 2010 under the terms and conditions of the Pennsylvania Department of Environmental Protection (PADEP) License # PA-1405:

<u>Manufacturer</u>	<u>Model</u>	<u>Serial Number</u>	<u>Isotope</u>	<u>Activity</u>
Gulf Nuclear	71-1	71-1-127	Am-241Be	3 Ci
Gamma Industries	NB(HP)	NB256	Am-241Be	3 Ci

The material was formally possessed by Hotwell Services located in Delmont, PA. Pennsylvania Department of Environmental Protection (PADEP) License # PA-1091

If you have any questions in regards to the transfer of the above described material, please contact our office at 403 202 3877.

Best regards,


Hermann Kramer
Hotwell Canada
President

Date 3/24/10



CERTIFICATE OF TRANSFER

HOTWELL CANADA LTD. located at 516 Moraine Road N.E. Calgary, Alberta T2A 2P2 is the owner of the following listed nuclear substances as special form sealed sources:

MANUFACTURER/ MODEL / NUMBER OF SOURCES	RADIOISOTOPE(S) / NOMINAL SOURCE ACTIVITY	SOURCE SERIAL NUMBER(S)
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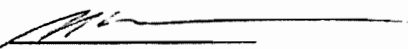
Gulf Nuclear (NEEI) / 71-1 / 1	Americium-241/Be: 111 GBq.	71-1-127
Gamma Ind. / NB(HP) / 1	Americium-241/Be: 111 GBq.	256

Hotwell Canada Ltd. operates under Canadian Nuclear Substances and Radiation Devices License Number 13678, which allows for the possession, use, export and transfer of nuclear substances and radiation devices.

Hotwell Canada Ltd has transferred the above listed special form sealed sources to Hotwell Services, Inc. located at 2315 Route 66 N. Delmont, Pennsylvania 15626, for the purpose of well logging on May 12, 2009. Hotwell Services, Inc. operates in the United States under NRC License Number 42-31298-01 and Pennsylvania DEP Radioactive Material License Number PA-109, which both allow for the import, possession, use and transfer of the above listed special form sealed sources.

For : HOTWELL CANADA LTD.

Dated: May 12, 2009


Hermann Kramer PEng.
President

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

(Provide at least three copies to the airline.)

Shipper

Hotwell Canada Ltd.
516 Moraine Rd. NE
Calgary, Alberta
T2A 2P2

Air Waybill No.

9563 8114 2532 0412

Page 1 of 1 Pages

Shipper's Reference Number

Consignee

Hotwell Services Inc.
2315 Route 66 N.
Delmont, Pennsylvania
15626

FedEx
Express

Two completed and signed copies of this Declaration must
be handed to the operator

WARNING

Failure to comply in all respects with the applicable
Dangerous Goods Regulations may be in breach of
the applicable law, subject to legal penalties.

TRANSPORT DETAILS

This shipment is within the
limitations prescribed for:
(delete non applicable)

Airport of Departure

Calgary

PASSENGER
X X X X X
AIRCRAFT

CARGO
AIRCRAFT
ONLY

Airport of Destination:

Delmont

Shipment type: (delete non-applicable)

~~NON-RADIOACTIVE~~

RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

Dangerous Goods Identification				Quantity and type of packaging	Packing Inst.	Authorization
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack- ing Group			
UN 3332	Radioactive Material, Type A Package, Special Form, Non-fissile or Fissile Excepted	7		Am-241/Be, Solid 2 x Type A Packages 2 x 111.0 GBq.	2xIII-Yellow TI: 2x3.0 Dimensions: 35.6 L x 35.6 W x 35.6 cm. H	SP. Form Cert. Attached: USA/0114/S-96 Rev. 7 USA/0166/S-96 Rev. 10

Additional Handling Information

This shipment is packed in accordance with ICAO regulations. Ph. (403) 852-3477, Hermann Kramer, 24 hours, in case of emergency.

Emergency Telephone Number

I hereby declare that the contents of this consignment are fully and
accurately described above by the proper shipping name, and are
classified, packaged, marked and labelled/placarded, and are in all
respects in proper condition for transport according to applicable
International and National Governmental Regulations. I declare that
all of the applicable air transport requirements have been met.

Name/Title of Signatory

Hermann Kramer, President

Place and Date

Calgary, May 12, 2009

Signature
(see warning above)

FOR RADIOACTIVE MATERIAL SHIPMENT ACCEPTABLE FOR PASSENGER AIRCRAFT, THE SHIPMENT CONTAINS RADIOACTIVE MATERIAL
INTENDED FOR USE IN OR INCIDENT TO RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.