

International Isotopes Inc.

January 03, 2007

Mr. Nima Ashkeboussi Mail Stop 8F3 11555 Rockville Pike Rockville, MD 20852

Subject:

Response to Question Regarding Amendment Request for

NR-1235-S-102-S

Dear Mr. Ashkeboussi,

I received your email from 1/3/2007 regarding the calibration due dates listed for exposure rate instruments on the last page of enclosure 1 of my application to amend NR-1235-S-102-S. Your comment is provided below for reference:

On the last page of Enclosure 1 to your letter, you provided the calibration dates for the instruments used to measure the radiation profile for Model BM06S-57. The date that the exposure rates were recorded are past the calibration due date of the instruments. Please provide justification on how the rates recorded are accurate.

I reviewed our calibration records and discovered that the dates on the enclosure where recorded in error. On date was recorded as 6/1/06 for Bicron MicroRem Serial Number B346V. This date should have been 6/1/07. The date for the Ludlum Model 5, Serial Number 194973 should have been recorded as 7/12/07. Please find the attached copies of the calibration record sheets for these instruments to supporting these corrections.

Should you have any questions, please contact me by phone at (208) 524-5300 or by email at jimiller@intisoid.com.

Sincerely,

John J. Miller, CHP

Radiation Safety Officer

Enclosures as stated

available at the customers request.



3998 COMMERCE CR. IDAHO FALLS, IDAHO 83401 (208) 523-5557 FAX (208) 524-8470 www.qaltek.com

DOSE RATE INSTRUMENT

				_6	CUS	NOI	IEKI	NFORM	NAH	ON				
Custon	ner: Inte	International isotopes of idaho						Address 4137 Commerce Circle				Idaho Falls ID 83401		
Contact: John Miller							ITS #:	6 #: S0575-06 PO #:			Ph	Phone #: 208-524-5300		
Comments:							Date:	05/31/06				FAX #: 2	208-523-6885	<u> </u>
				.	NSTF	RUME	ENT II	DENTI	FICA	TION				
MFG'R: Bicron MOD #: Micro Rem S								B346V	CAL	DATE: 06/01/	06 Ne	kt Cal Due: 06/01/07		
				E	NVIR	ONM	IENT,	AL CO	NDIT	TIONS				
Temp.:	21 C	Press.:	25	5.34 ir	Hg	% Hun	nidity:	36		Laboratory E	levation:		4,750 Feet	
,	_			ME	ASUR	EME	NT &	TEST	EQU	IPMENT				• • •
She	Shepherd Mod. 81-10 sn 9004 Cal Due:							10/07 Eberline MP2 Pulser sn 905				Cal Due:	6/10/06	
	Cal Due:									-		Cal Due:		
										REMENTS			· · · · · · · · · · · · · · · · · · ·	
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pulser		X0.1	<u> </u>	16	μR	16	μR	. 16	μR	10%	Р	4		
pulser		X1	ļ	40	μR	40	μR	40	μR	10%	P	┧ .		
B7-471	Cs 137	X1	ļ	160	μR	160	μR	160	μR	10%	P.	4		
B7-471	Cs 137	X10	ļ	400	μR	400	μR	400	μR	10%	P	-		
01-500 01-500	Cs 137	X10 X100	 	1600	μR	1550 3.9	μR	1550 3.9	μR	10%	P	4		
01-500	Cs 137	X100	 	16	mR mR	15.8	mR mR	15.8	mR	10%	P	-		
01-500	Cs 137	X1000	 	40	mR	40	mR	40	mR mR	10%	P	4		
	Cs 137	X1000	 	160		160		160			P	4		
	01-500													
Repro	ducibility	: []	N/A	✓ Pass	Fa	il Hig	h Volta	ge: ✓	OK	Geotro	oism: 🔝	N/A ✓ F	ass F	ail
Zero	Check:		N/A	✓ Pass	☐ Fa	il							:	
, , ,	CALIB	RATION	I RE	SULTS) 	☑ P/	ASS		FAI	L				
CALIBRATION TECHNICIAN Traces								Tracy Brunso				DATE 06/01/06		
OPERATIONS MANAGER AL-TEK ASSOCIATES, LLC, certify that the above instrument has been							Gary Stoddal							
NIST), or trac or have been of of the equipme	eable to cal derived by the ent being ca	ibration faciliti ne ratio type o librated. The	es for of f calibra QAL-T	other Internati ation techniques EK calibration	ional Stan ues. Acci n system	dards Or tracy of the conforms	ganization he princip to applic	n members, al radiation able ANSI s	or have sourcea tandard	ds traceable to the N been derived from a used in the calibrati s. All calibrations ar 0-001) and the Calib	accepted va on is greate e performed	lues of natural/ r or equal to the in accordance	physical consta e required accu with the	nts, rac



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CALIBRATION CERTIFICATE - DOSE RATE

CUSTOMER INFORMATION

	Isotope	s of Idaho		Α	ddress	4137 Con	nmerce	le	daho Falls	ID 83401				
Cont	tact: John				·	ITS #: S0716-06 PO #:				Ph	Phone #: 208-524-5300			
Comme	nts:					Date: 07/11/06					FAX #: 2	08-523-6885		
INCTDIMENT IDENTIFICATION														
INSTRUMENT IDENTIFICATION														
MFG'R:	Ludlu	m M	OD #:	5		S/N:		94973		DATE: 07/12/	06 Ne	xt Cal Due:	07/12/07	
	PROBE IDENTIFICATION MFG'R: Ludium MOD #: 5 S/N: internal CAL DATE: 07/12/06 Next Cal Due: 07/12/07													
MFG'R: Ludium MOD#: 5 S/I							<u> </u>	nternal	CALI	DATE: 07/12/	06 Ne	xt Cal Due:	07/12/07	
·														
ENVIRONMENTAL CONDITIONS														
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Temp.:	22 6	Press.:	1 23	. 13 In	1 Hg	70 Muli	nany.	30	<u> </u>	Laboratory E	ievauon:			
MEASUREMENT & TEST EQUIPMENT														
She	pherd Mod	. 81-10 sr	9004	Cal	Due:	3/10	1/10/07 Ludium 500-4B Pulser sn 16385					Cal Due:	5/25/07	
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				CALIE	3RAT	S NOI	& TES	T MEA	\SUF	REMENTS				
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#	Isotope	Range		Readi		Read		Reading		%	Fail		03 mR	
pulser		X0.1		0.04	mR	0.040	mR	0.040	mR	10%	P	Commer		
pulser		X0.1		0.16	mR	0.159	mR	0.159	mR	10%	P	1		
B7-471	Cs 137	X1	1	0.4	mR	0.41	mR	0.41	mR	10%	Р	1		
01-500	Cs 137	X1	+	1.6	mR	1.62	mR	1.62	mR	10%	Р	1		
01-500	Cs 137	X10	1	4	mR	4.2	mR	4.2	mR	10%	Р	7		
01-500	Cs 137	X10		16	mR	16.4	mR	16.4	mR	10%	P	┪ .		
01-500	Cs 137	X100	1	40	mR	41	mR	41	mR	10%	Р	-		
01-500	Cs 137	X100		160	mR	161	mR	161	mR	10%	P	1		
01-110	Cs 137	X1000	+-	400	mR	400	mR	400	mR	10%	P	┪		
01-110	Cs 137	X1000		1600	mR	1550	mR	1550	mR	10%	P	-∤	•	
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				CALI	BRA	TION	OPE	RATIO	NAL	CHECKS				
	Reproducit	oility: 📗	N/A	✓ Pass	F	ail H	igh Vol	tage: 🗹	OK	Geotro	pism:	N/A 🗸 I	ass Fail	
	Zero Cl	neck:	N/A	✓ Pass		ail		*						
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	0 A L 101	SATIO								•			•	
CALIBRATION RESULTS														
CALIBRATION TECHNICIAN / Rommer Cody Brammer										DATE	07/12/06			
OPERATIONS MANAGER							Brammer Cody Brammer							
							in the			ldard	DATE 07/12/06			
QAL-TEK ASSOCIATES, LLC, certify that the above instrument has been calibrated by radioactive standards traceable to the National Institute of Standards and Technology NIST), or traceable to calibration facilities for other International Standards Organization members, or have been derived from accepted values of natural/physical constants,														
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(NIST), or traceable to calibration facilities for other International Standards Organization members, or have been derived from accepted values of natural/physical constants or have been derived by the ratio type of calibration techniques. Accuracy of the principal radiation sourcea used in the calibration is greater or equal to the required accuracy of the equipment being calibrated. The QAL-TEK calibration system conforms to ANSI N323-1997. All calibrations are performed in accordance with the customers Purchase Order requirements, the QAL-TEK Quality Assurance Management Program (QP-PRO-001) and the Calibration Procedure (CP-PRO-845), which are available at the customers requirements.