St. Joseph Health Center 300 First Capitol Drive St. Charles, MO 63301 (636)947-5444

December 7, 2009

Materials Licensing Section
U. S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road STE 210
Lisle, Illinois 60532-4352

Re: Control Number 317556

Lic. No. 24-15159-01

Dear Ms. Casey,

Thank you for your correspondence of Jan 5, 2009 regarding Amendment No. 58 to our Material License. At that time we had requested **removal** of authorization for iridium-192 in a high dose rate remote afterloading brachytherapy device at the 300 First Capitol Drive, St. Charles, Missouri location. You were unable to remove this use from our license since we had not provided receipt confirmation by the manufacturer of the last source removed from the unit. This correspondence therefore includes the receipt confirmation and the leak test of the last source used at that location.

Thank you again for your consideration in this matter.

If you have any questions over this information please feel free to call Mark Pohlman, Ph.D.. His contact numbers are 314-941-1030 or 314-488-5111.

Sincercity

Sidney Machefsky, M.D., RSO

MARK POHLMAN

From: Prager, Cyndie [cyndie.prager@us.nucletron.com]

Sent: Friday, September 19, 2008 10:57 AM

To: MARK POHLMAN

Cc: Prager, Cyndie

Subject: Receiving of source serial# D36B-5346 at Nucletron Corp.



Received source information

Source serial number: D36B-5346

Source container : 1836C5 Source activity : 3.5 Ci

Date received : 09-17-2008

From : Missouri Cancer Care
Address : St. Joseph Health Center

Address 2 : 1475 Kisker Rd.; Ste 180

City : St. Peters State / zip : MO 63304

Country : United States

Cyndie Prager

Coordinator, Source Logistics

Nucletron Corporation
Office: +1 443 545 2218

cyndie.prager@us.nucletron.com Visit our website: www.nucletron.com

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St. JOE - HEALTH CON - SOMPORE

Nucletron

DO NOT REMOVE THIS DOCUMENT FROM THE TRANSPORT DRUM

Source Return Document (USA) for Container type ADIC (Part No. 081.040-xx)

Hospital name:		1000 CC 01000 0100 000 000 000 000 000 0	Address		# 6 A mm 1
1000	Clave	MISSOULI CANCEL CARE		SSO FIRM	CADTAL KIR
City:		st. charles	State/Country	mo 10	54
Container serial		1836 ADIC	Source serial no	50/0 50/1/-	
no. (on top of lid): Afterloader		1656 ADIC (on source to		D36B 5346	
	serial no.:	31876			
	Source type:	mHDR V2 / GENIE (0.9mm)		issic (1.1mm) 🌞	·
		☐ mPDR V2 (0.9mm)	mPDR Cla	ssic (1.1mm)	r.
No.	ltam /ean	Source Handling Procedure, part n	5 400 062)	HAVIORENIS SERVICE	ed Source Handler
1.	Are you Nucleti	ron-certified for source exchanges?	Nucleuron Certific	Remark	
	Dose rate above the source channel (without lid) should be lower				
2.	than on the side of the container			Pass	Remark
3.	Source is locked (lever down) and source cable is undamaged			□ Pass	Remark -
				≤ 480mm	≤ 460mm
4.				(0.9 mm source)	(1.1 mm source)
	Length of source	e cable extending from unload tube	. 4		. ,
5.	Source informa	tion label on container matches actua	I source	Pass	Remark
6.		closed: both nuts fastened and lid loc	Pass	Remark	
4 3 3 7	•		al - 1		or ≤ 200 µSv/h
7.	Surface dose rate of the hot spot on top of the transport drum			, ,	
8.	Surface dose rate of the hot spot on the side of the transport drum			8.Ø	***
9.	Dose rate for the hot spot at 1 metre from the transport drum			Ø.3	
10.	Radioactive contamination on transport drum ≤ 0.4Bq/cm ²			√Pass	Remark
11.	Measurements	within specification?		√ Pass	☐ Remark
12.	Transport Index	(TI)	0.1≤TI ≤ 0.6	0.3	
13.	Source activity			129.87	GBq
14.	Labels are correctly placed and filled in (II-Yellow and address labels)			Pass	Remark
15.		ng documents are completed and signed		 Pass	Remark
16.	No other reportable quality problems with source, container(s), packaging, labelling, error code 227/228, etc.?			⊋ Pass	Remark
17.		hed? (If yes, submit an FPR report to	√No	Yes	
	Lid screwed tigh	atly on to transport drum and red tamp ocument enclosed (tick 'Pass' if done i	er inserted;	Pass	Remark
					1
		ed Signature: Da	72 PS	ALTONOMICS OF THE PARTY OF THE	

Nucletron Certified Source Handler:	Signature;	Date (YYYY-MM-DD):	Release for local and long distance shipment?
	Scott mich	2008-09-15	✓Yes (no unresolved remarks) NO: DO NOT SHIP and call Nucletron (1)-800-4459295

Fax a copy to Nucletron, fax no. (1) 410-3124196, and include the white original in the transport drum.

Remarks (place a red RMA Label on the container and on the transport drum):

Certificate For Sealed Sources

Issue Date:

2008-05-16

Product Code: Serial Number: REF 105002 SN

Production Code:

D36B-5346 LOT HDR042308

Serial no. Transport Container:

2254C5

Serial no. Check Cable:/

Certificate Number:

ipFc* #zHJi 9TPd0 E7xzL E1

Source Specification

Reference Air Kerma Rate:

43.45 mGy h-1 +/- 5% at 1m

Measurement Reference Date:

2008-05-20 (18:00 CET

= 11:00 7 (-7 hrs ToME

Apparent Activity:

395 GBq (10.7 Ci) at measurement reference date. (3.4)

Source Type:

MICROSELECTRON-HDR

0.9 mm diameter, 4.5 mm length ~ Capsule dimensions: 0.60 mm diameter, 3.5 mm length

Source pellet dimensions:

Solid Iridium Source pellet form:

Radionuclide:

Ir-192 🗸 single 🗸

Encapsulation: Capsule material:

stainless steel, AISI 316L

ISO Classification:

C53211

Special form certificate number:

D/0070/S-96

Quality Control

Laser Weld Visual Check:

Passed

Source Capsule Integrity (15 N pull test):

Passed

Leakage Test:

Passed

Surface Contamination test:

< 185 Bq (5 nCi)

The undersigned, authorized officer of QSA Global, Inc. certifies that this source complies with the requirements of ISO2919 and that all of the information given in this certificate is true and correct.

Quality Assurance

(1) Date Format yyyy-mm-dd.

(2) Confidence level of 99.7%.

(3) The apparent activity is determined by applying a conversion factor (0.110 mGy $m^2h^{-1}GBq^{-1}$) to the measured gamma radiation output of the sealed source determined with a calibrated instrument. The instrument is traceable to the National InstNational Standards & Technology. (NIST)

(4) The apparent activity is the Iridium-192 activity; other radionuclides not detectable.

(5) Leakage test method according to ISO9978 method Liquid nitrogen bubble test (6.2.4).

(6) Surface contamination test according to ISO9978 method Wet wipe test (5.3.1).

(7) The quality assurance system of QSA Global Inc. is certified by Lloyd's Register Quality Assurance (LRQA) according to ISO 9001 and ISO 13485.









MARK POHLMAN, PLD SSM ST. JOSEPH MEDICAL PARK 1475 KISKER RD ST. CHARLES, MO L3304



MATERIALS LICENSING SECTION

U.S. NUCLEAR REGULATORY COMMISSION

REGION II

2443 WARRENVILLE Rd, STE 210

LISLE, ILLINOIS

LOS32-4352

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