



Community Healthcare System

ST. CATHERINE Hospital

Vered Shaffer
Materials Licensing Branch
USNRC Region III
801 Warrenville Road
Lisle, IL 60532-4351

23th October 2015

RE: 13-01148-01 License renewal request: Response to 10/15/15 letter

Dear Ms. Shaffer,

The requested information is attached.

1. This hospital does not use PET.
2. Dr. John Griep would need to be removed from this license.
3. This facility is not involved in brachytherapy treatment for quite some time, at least for the last six years. The Cs-137 sources were transferred from the St Catherine hotlab to the Community Hospital, Munster hotlab (License # 13-15882-01) on 11th February, 2014.

Please find the following enclosed documentation relevant to this source transfer.

- Radiation Therapy Physical Inventory of Brachytherapy sources at St Catherine Hotlab on 02/11/2014. This document also has a paragraph at the end describing the transfer of the sources signed by both the hospital RSOs.
- Straight Bill of Lading for the transfer of the sources from St Catherine Hospital to Community Hospital from the Shipper and Carrier Stan A. Huber Consultants, Inc.
- Letter from Stan A. Huber Consultants, Inc. to the Director, Radiation Oncology and Medical Physics-Item 2 describes the transfer process being completed.
- Most recent inventory of these transferred sources at Community Hospital.

Sincerely,

Su Kar
10/23/2015

Santosh Kar
Radiation Safety Officer



February 25, 2014

Jackie Katz
Director Radiation Oncology and Medical Physics
Community Hospital
901 McArthur Boulevard
Munster, Indiana 46321

Dear Ms. Katz:

This is the summary report of my RSO visit to your Munster facility on February 11, 2014.

1. This is my final visit to your location under our RSO support agreement. Santosh Kar has been officially appointed as the RSO on the Community Hospital, Munster, IN license. The paperwork has been submitted to the NRC for the RSO changes at St. Mary Medical Center and St. Catherine Hospital. The NRC has given verbal confirmation approval of this request but the actual amendment is still pending as well as requests for AU changes.
2. As part of my RSO support to your three hospitals, I completed the transfer of the brachytherapy sources from St. Mary and St. Catherine to your Radiation Oncology radioactive material storage area. This support was performed under your NRC license conditions.
 - a. I packaged the sources at St. Mary Medical Center first.
 - b. I then went to St. Catherine Hospital and packaged their sources into the same container.
 - c. The Bill of Lading for these shipments is attached as a PDF file. This includes 2 BOL documents, emergency procedures and leak test certificates.
 - d. I have also attached the joint inventory of the 22 transferred brachytherapy capsules completed by Santosh and I as a PDF file. The inventory document is also attached as a word document for you to use and maintain your inventory files.
 - e. I will work on collecting the cost to dispose of all the brachytherapy capsules.
 - f. There are no current expectations for any of the brachytherapy capsules to be used. They are all placed in inactive storage. Leak testing is not needed until use is resumed or within 6 months of disposal processing.

- g. The total brachytherapy source activity present at Community Hospital Munster is 705 mCi. This is below your licensed allowed activity of one curie for each model listed.
3. On this visit to your hospital, I participated in the Radiation Safety Committee meeting. I provided a synopsis of the last SAHCI visit to your facility and updated the status of the brachytherapy sources at St. Mary and St. Catherine.

Thank you for the opportunity of serving you. If you have any questions before this time, please contact us at (800) 383-0468.

Sincerely,
Stan A. Huber Consultants, Inc.



James C. Hatten
Senior Health Physics Consultant

jch

February 11, 2014

St. Catherine Hospital
4321 Fir Street
East Chicago, IN 46312
(NRC 13-01148-01)

Radiation Therapy Physical Inventory
Brachytherapy Sources

Drawer 1

Radionuclide	Source Manufacturer	Calibration Date	Source Model Number	Source Serial Number	Calibrated Activity (mCi)
Cs-137	3M	6/17/83	6501	4759	25.5
Cs-137	3M	6/17/83	6501	4760	25.5
Cs-137	3M	6/17/83	6501	4776	25.5

Drawer 2

Radionuclide	Source Manufacturer	Calibration Date	Source Model Number	Source Serial Number	Calibrated Activity (mCi)
Cs-137	3M	10/26/88	6D6C-CA	1842	29.75
Cs-137	3M	10/26/88	6D6C-CA	1843	30
Cs-137	3M	10/26/88	6D6C-CA	1845	30.25
Cs-137	3M	10/26/88	6D6C-CA	1846	30.25

Drawer 4

Radionuclide	Source Manufacturer	Calibration Date	Source Model Number	Source Serial Number	Calibrated Activity (mCi)
Cs-137	3M	10/26/88	6503	978	39
Cs-137	3M	10/26/88	6503	1011	39
Cs-137	3M	6/26/86	6503	3316	50.75
Cs-137	3M	6/26/86	6503	3386	50.75

Other Sources

Radio-nuclide	Source Description	Original Activity & Calib. Date	Source Location
Co-57	Disc	5 μ Ci Feb 2004	Plastic case behind shield
Co-57	Disc	5 μ Ci May 2005	Plastic case behind shield
Cs-137	Spectrum Techniques disc check source	10 μ Ci	Lead pig behind shield
Cs-137	Spectrum Techniques disc check source	10 μ Ci	Lead pig behind shield
Cs-137	Nuclear Associates multi-dosimeter calibrator Model 06-201	9 μ Ci	Wrapped in lead behind shield
Cs-137	Nuclear Associates multi-dosimeter calibrator Model 06-201	9 μ Ci	Wrapped in lead behind shield

February 11, 2014

St. Mary Medical Center
1500 South Lake Park Avenue
Hobart, IN 46342
(NRC 13-03459-03)

Radiation Therapy Physical Inventory
Brachytherapy Sources

Red

Radionuclide	Source Manufacturer	Calibration Date	Source Model Number	Source Serial Number	Calibrated Activity (mCi)
Cs-137	3M	4/1/03	1862	H-5	19.63
Cs-137	3M	4/1/03	1862	E-5	19.63
Cs-137	3M	4/1/03	1862	H-3	19.63
Cs-137	3M	4/1/03	1862	E-5	19.38

Black

Radionuclide	Source Manufacturer	Calibration Date	Source Model Number	Source Serial Number	Calibrated Activity (mCi)
Cs-137	3M	4/1/03	1863	L-1	28.95
Cs-137	3M	4/1/03	1863	N-4	29.33
Cs-137	3M	4/1/03	1863	O-9	29.33
Cs-137	3M	4/1/03	1863	M-1	29.49
Cs-137	3M	4/1/03	1863	M-9	29.49

White

Radionuclide	Source Manufacturer	Calibration Date	Source Model Number	Source Serial Number	Calibrated Activity (mCi)
Cs-137	3M	4/1/03	1864	R-1	38.55
Cs-137	3M	4/1/03	1864	T-8	38.55

These sources were inventoried at the location listed above. They were then packaged in accordance with DOT requirements and transferred to the Community Hospital, 901 MacArthur Boulevard, Munster, IN 46321 (NRC 13-15882-01). They were jointly inventoried by Jim Hatten and Santosh Kar, RSO. All of these sources are now secured in the brachytherapy source safe at the Community Hospital location.

This activity was performed under the NRC licenses for these locations.

Performed by:  James Hatten, RSO St Mary and Hobart Hospitals Date: February 11, 2014

RSO Community Hospital Munster:  Date: 02/24/2014

Community Hospital Cesium 137 Brachytherapy sources

Patient Name: Inventory Room: Hotlab

Activity in mg Ra eq as of 10-Sep-15

This Table to be used from 10-Sep-15 to 8-Jan-16

Source Number	Drawer Location	Activity mg Ra eq	Activity mCi	Position in Applicator	Source Number	Activity mg Ra eq	Date
CP760	1	3.1	7.8			5.48	7/25/1991
EM652	1	3.3	8.1			5.218	4/6/1995
CZ420	1	6.1	15.3	1		10.49	5/5/1992
CZ432	1	6.1	15.3			10.5	5/6/1992
CY303	1	6.1	15.3	2		10.53	5/7/1992
CZ436	1	6.2	15.4			10.57	5/6/1992
CY284	1	6.2	15.5	3		10.61	5/7/1992
CY585	1	9.3	23.1			15.87	5/21/1992
CY614	1	9.3	23.2	4		15.87	6/1/1992
CY628	1	9.3	23.2			15.87	6/1/1992
CP745	1	12.9	32.3	5		22.59	7/29/1991
CW433	1	13.2	33.0			22.63	4/30/1992
CW450	1	13.2	33.0	6			

Totals 13 104.2 260.5

Sources Removed: _____

Name: _____

Sources Returned: _____

Name: _____

GRAND TOTAL: 35 272.9 682.4

Activities Verified by: Sufjan
Santosh Kar, M.S.

Cesium-137 Decay Table.XLS

Moved from St Mary Medical Center (02-11-2014) Cesium 137 Brachytherapy sources

Patient Name: Inventory Room: Hotlab

Activity in mg Ra eq as of 10-Sep-15

This Table to be used from 10-Sep-15 to 8-Jan-16

Source Number	Drawer Location	Activity mg Ra eq	Activity mCi	Position in Applicator	Source Number	Activity mg Ra eq	Date
E1	1	5.9	14.8			11.64	5/23/1986
E5	1	5.9	14.8			11.64	5/23/1986
I13	1	5.9	14.8	1		11.64	5/23/1986
I15	1	5.9	14.8			11.64	5/23/1986
L1	1	8.8	22.0	2		17.32	5/23/1986
M1	1	8.8	22.0			17.32	5/23/1986
M3	1	8.8	22.0	3		17.32	5/23/1986
N4	1	8.8	22.0			17.32	5/23/1986
O9	1	8.8	22.0	4		17.32	5/23/1986
R3	1	11.6	29.0			22.8	5/23/1986
T8	1	11.6	29.0	5		22.8	5/23/1986

Totals 11 90.8 227.0

Sources Removed: _____

Name: _____

Sources Returned: _____

Name: _____

Community Cs sources

SCH Cs sources SMMC Cs sources

Moved from St. Catherine Hospital (02-11-2014) Cesium 137 Brachytherapy sources

Patient Name: Inventory Room: Hotlab

Activity in mg Ra eq as of 10-Sep-15

This Table to be used from 10-Sep-15 to 8-Jan-16

Source Number	Drawer Location	Activity mg Ra eq	Activity mCi	Position in Applicator	Source Number	Activity mg Ra eq	Date
4759	1	4.8	12.1			10.2	6/17/1983
4760	1	4.8	12.1			10.2	6/17/1983
4776	1	4.8	12.1	1		10.2	6/17/1983
1842	2	6.4	16.0			11.9	10/26/1988
1843	2	6.4	16.1	2		12	10/26/1988
1845	2	6.5	16.3			12.1	10/26/1988
1846	2	6.5	16.3	3		12.1	10/26/1988
978	4	8.4	21.0			15.6	10/26/1988
1011	4	8.4	21.0	4		15.6	10/26/1988
3316	4	10.5	26.2			20.6	6/26/1986
3386	4	10.3	25.8	5		20.3	6/26/1986

Totals 11 77.9 194.9

Sources Removed: _____

Name: _____

Sources Returned: _____

Name: _____

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

Community Hospital Munster
Private Use

To: Consignee **St Catherine Hospital**
4321 Fir St
East Chicago, IN 46312

From: Shipper **Community Hospital**
901 MacArthur Blvd
Munster, IN 46321

No. of Units & Container Type	HM	DESCRIPTION AND CLASSIFICATION (Proper Shipping Name, Class and Identification Number per 172.101, 172.202, 172.203)	UN No. or NA No.	Total Quantity (Weight, volume, gallons, etc.)	Weight (Subject to Correction)
1 Drum	X	Radioactive Material, Type A Package, Class 7 <ul style="list-style-type: none"> • Cesium-137 Chloride, Solid Form, 22 capsules 16.2GBq (436.6 mCi) Radioactive Yellow II, TI = 0.3 Each capsule was placed inside of the brachytherapy lead shipping box. This box was secured inside the drum. The drum used for transport is a USA DOT 7A Type A shipping container. Sources are leak tested every 6 months. Latest certificates with carrier. See enclosed Emergency Response Instructions .	UN2915	22 capsules contained inside the brachytherapy seed lead transport box inside the drum <i>Drum Dimensions (45 cm X 39 cm)</i>	50lbs
Emergency Numbers:					
Jim Hatten, R.S.O. (Home) 815-476-2007 (Cell) 815-370-6538					

PLACARDS TENDERED: Yes No (Not Applicable)

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 by Highway, according to applicable international and national governmental regulations.

Signature, Feb 11, 2014: _____

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. If on its routes, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed there under shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Shipper: Stan A. Huber Consultants, Inc. - Jim Hatten	Carrier: Stan A. Huber Consultants, Inc. - Jim Hatten
Per:	Per:
Date: Feb 11, 2014	Date: Feb 11, 2014

Shaffer, Vered

From: Santosh K. Kar <Santosh.K.Kar@comhs.org>
Sent: Tuesday, October 27, 2015 12:56 PM
To: Shaffer, Vered
Cc: Jacqueline P. Katz
Subject: [External_Sender] RE: Additional information for NRC License renewal of St. Catherine Hospital, Inc.
Attachments: NRC license renewal reply_signed.PDF; 2014-02-11 Inv Brachy St. Cath & Mary_signed.PDF; 2014-02-11 St Cath to Munster BOL.pdf; 2014-02-11 RSO Visit - Community Hospital.pdf; Cesium-137 Inventory-CHS-signed.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Dr. Shaffer,

Thank you for talking to me for our renewal request for St. Catherine Hospital.

Please find the enclosed signed and dated letter along with supporting documentation that provides the information you need.

If you have any questions, please do not hesitate to call/contact me.

Thank you.
Santosh Kar,
Medical Physicist and RSO,
St Catherine Hospital,
East Chicago, IN 46312

From: Shaffer, Vered [mailto:Vered.Shaffer@nrc.gov]
Sent: Friday, October 16, 2015 2:45 PM
To: Santosh K. Kar <Santosh.K.Kar@comhs.org>
Subject: Additional information for NRC License renewal of St. Catherine Hospital, Inc.

Hi Santosh,

Thanks for speaking with me regarding your renewal request for St. Catherine Hospital, License 13-01148-01. Here is the following information that I need in order to continue with my review of your application:

- 1). Confirm that this location does not use PET.
- 2). Dr. John Griep was removed as an authorized user on Amendment 69. He is listed on your renewal application. Please confirm if he is to remain removed from your license or to be added back on.
- 3). Please provide information on your brachytherapy seeds as to when they were last used and specifically for Cs-137 seeds, when and where they were transferred and to which license they were transferred to.

Please provide this information back to me in a signed and dated cover letter. If I can receive this by October 30, 2015, that would be great. If you have any questions, please don't hesitate to contact me.

Thanks,
Vered

Vered Anzenberg Shaffer, Ph.D.
Health Physicist

U.S. Nuclear Regulatory Commission, Region III
Division of Nuclear Materials Safety
Materials Licensing Branch

vered.shaffer@nrc.gov

630-829-9862 (Office)

630-515-1078 (Fax)

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