



Handwritten: A  
030-02049

Lakeland Hospital

Niles  
31 North St. Joseph Avenue  
Niles, MI 49120-2287  
Phone 269/683-5510

St. Joseph  
1234 Napier Avenue  
St. Joseph, MI 49085-2158  
Phone 269/983-8300

October 12, 2006

U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road  
Lisle, IL 60532-4352

Re: Amendment to license No. 21-04177-01, Lakeland Medical Center

Please amend our license as follows:

Remove item G. Strontium-90 permitted by 10 CFR 35.1000 from our license. The source is no longer present at our facility, and has not been used since February 2006. Wipe tests, removal of source forms, and confirmation of receipt from the vendor is enclosed.

If you have any questions, please contact me at 269-982-4873.

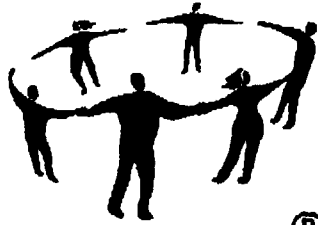
Sincerely,

David E. Sieffert, M.S.  
Medical Physicist, Radiation Safety Officer  
Lakeland Medical Center  
1234 Napier Ave.  
St. Joseph, MI 49085

Handwritten: 315771

REC'D OCT 12 2006

4350 International Boulevard Norcross, GA 30093 (770) 717-0904



**Best**®

***healthcare for everyone***

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Date: 10/11/06

To: Dave Sieffert

From: Chris Sherman

Subject: Confirmation of Receipt of Radioactive Sources

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This letter is being sent to you as confirmation of receipt by Best Vascular of the following active Sr-90 sources from **Lakeland Hospital**.

**Train: ZA913 in TD: 89264 on 9/13/06**

*Regards,*

Chris Sherman  
*Lead, Radiation and Systems*

**SHIPPERS DECLARATION FOR DANGEROUS GOODS**

<b>Shipper:</b> David E. Sieffert (269) 982-4873 Lakeland Hospital Radiation Oncology Dept. 124 Napier Ave St. Joseph, MI 49085 USA			Air Waybill No. _____  Page 1 of 1 Pages  Shippers Reference Number (optional)		
<b>Consignee:</b> Chris Sherman (770) 810-3120 Best Vascular - Rad Material Receiving 4350 International Blvd Norcross, GA 30093 USA					
Two completed and signed copies of this Declaration must be handed to the operator.			<b>WARNING</b> Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to penalties.		
<b>Transport Details</b> This shipment is within the limitations prescribed for: (delete non-applicable)					
Airport of Departure:		This shipment is within the limitations prescribed for: (delete non-applicable)	Airport of Destination:		
PASSENGER AND CARGO AIRCRAFT		[Redacted]	Airport of Destination:		
Airport of Destination:			Shipment type: (delete non applicable)		
ATL			Radioactive		
<b>NATURE AND QUANTITY OF DANGEROUS GOODS</b>					
Dangerous Goods Identification					
UN or ID Number	Proper Shipping Name	Class or Division (Subsidiary Risk)	Packing Group	Quantity and type of packing	Packing Inst. Authorization
UN 2915	Radioactive Material Type A Package	7		Sr-90, Metal, Solid 1 Type A Package <u>1.73</u> GBq	II Yellow  TI= <u>0.1</u>  30.5 cm dia. 34.5 cm height
Additional Handling Information : This shipment contains radioactive material in a medical device intended for use in or incident to research or diagnosis, or treatment. This shipment prepared in accordance with ICAO/IATA. This material is owned by, and is being returned to the consignee.					
<b>24 hr Emergency Response: Craig Reed, 770-335-1042</b>					
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 David E. Sieffert, medical physicist  Place and Date St. Joseph, MI 17-July 06  Signature  (see warning above)	

Lakeland Regional Health System  
Radiation Monitoring for Incoming and Outgoing Shipments

Date: 17 July 06

Incoming  or Outgoing (circle one)

Isotope: Sr-90

Order #: #674635980869

Apparent Activity/Assay date: 1.73 GBq / 17 July 06

Number of Seeds: 16 (40mm) Train Same

**Exposure Survey**

mR/hr @ 1 meter: 0.01

mR/hr @ surface: 0.86

Survey meter: Victoreen 450P #4586  
(manufacturer, model, ser. #)

Survey meter calibration date: 12/16/05

Battery check OK?

Check source reading OK?

**Removable Contamination Test**

See attached

Background: - cpm

100 cm<sup>2</sup> wipe: - cpm

Net wipe: - cpm

Counting efficiency: 37%

Wipe Activity: - dpm

Wipe test OK?

Counting system used: Captus 2000 (SN: CNV-037)  
(manufacturer, model, ser. #)

Test performed by: [Signature]

### Lakeland Medical Center

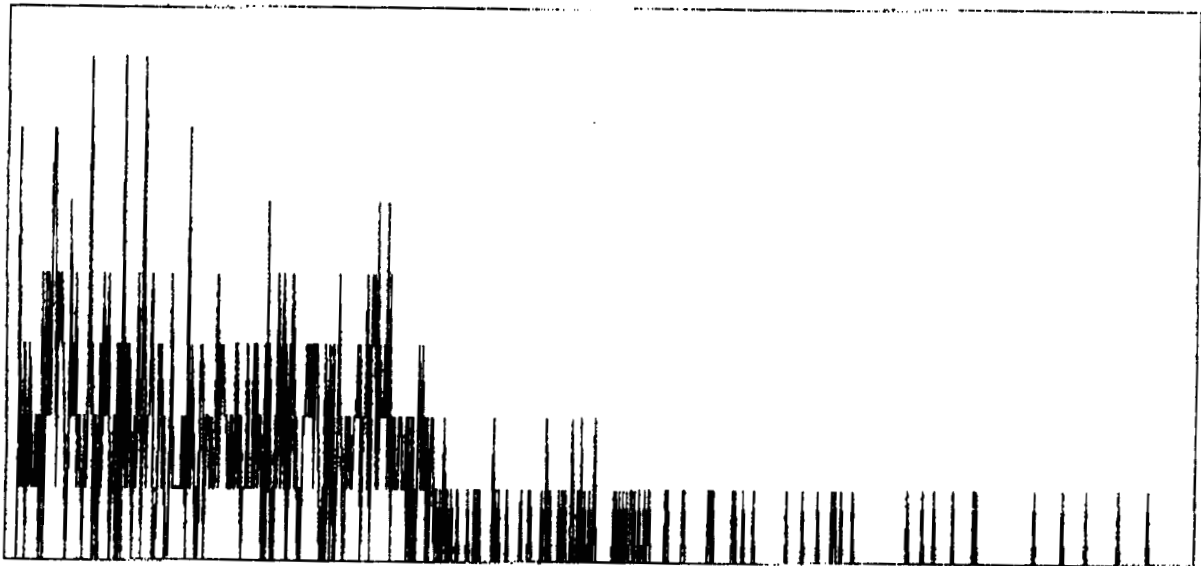
1234 Napier Avenue  
St. Joseph, MI 49085

S/N CNV-037

#### WIFE TEST ANALYSIS

Jul 17, 2006 13:43:23

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Wipe Location: Sr-90 pig surface  
 Trigger Level: 200 dpm  
 Count Time: 60 seconds

Energy (keV)	Net Counts (cpm)	Region of Interest (min) (max)	Isotope	Activity (dpm)
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Full Spectrum Total Counts (cpm) = 736.0  
 Full Spectrum Net Counts (cpm) = 63.00 at Efficiency of 37.00 %  
 Gives Activity of 170.0 (dpm)

Full Spectrum Background Counts (cpm) = 673.0

\*\* Indicates Trigger Level Exceeded

Signature \_\_\_\_\_

### Lakeland Medical Center

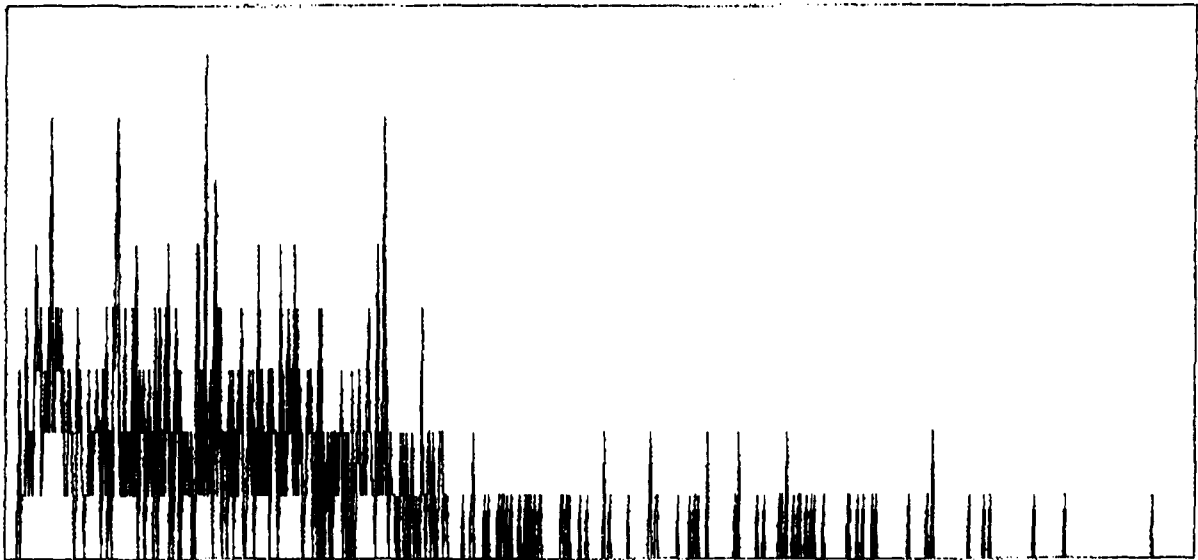
1234 Napier Avenue  
St. Joseph, MI 49085

S/N CNV-037

#### WIPE TEST ANALYSIS

Jul 17, 2006 13:40:51

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Wipe Location: Sr-90 Exit Wipe Surface  
Trigger Level: 200 dpm  
Count Time: 60 seconds

Energy (keV)	Net Counts (cpm)	Region of Interest (min) (max)	Isotope	Activity (dpm)
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Full Spectrum Total Counts (cpm) = 740.0  
Full Spectrum Net Counts (cpm) = 67.00 at Efficiency of 37.00 %  
Gives Activity of 181.0 (dpm)

Full Spectrum Background Counts (cpm) = 673.0

\*\* Indicates Trigger Level Exceeded

Signature \_\_\_\_\_

CAPINTEC, INC.

CAPTUS 2000 THIN LAYER UPTAKE SYSTEM

Version 3.06