

Penny Lanzisera  
Senior Health Physicist  
Medical Branch  
Division of Nuclear Materials Safety  
Nuclear Regulatory Commission

December 3, 2004

45-23003-01  
03020158

Dear Ms. Lanzisera:

This letter is to request the addition of Gilbert D. Glennie as an Authorized Medical Physicist to the Materials License of Martha Jefferson Hospital (License number 45-23003-01).

Mr. Glennie is a Ph.D. medical physicist and was previously designated an Authorized Medical Physicist at his prior place of employment at the University of Virginia under Byproduct License No. 45-00034-26 (see attachment). He is certified in Radiation Oncology Physics by the American Board of Medical Physics. He received vendor training in the GammaMed system at the University of Virginia and gained several years of experience planning and performing HDR treatments and doing the associated QA.

At Martha Jefferson Hospital Mr. Glennie has received training in the Varian HDR system from the Authorized Medical Physicist, Moira Lumley-Chan, M.S. Ms. Lumley-Chan is also to remain an Authorized Medical Physicist on license 45-23003-01. Mr. Glennie has had 3 days of vendor training on the VariSource treatment planning system software (March 15 – 17, 2004), as well as emergency training (see attachment).

In regards to item c. of your letter of October 8, 2004, Mr. Glennie has also received training and experience in the use of unsealed licensed material at the University of Virginia. He has had several years of experience with I-131 thyroid therapies, Sr-89 for bone metastases, and P-32 for brain cysts.

If you require any further information, please contact Gilbert D. Glennie, Radiation Oncology, Martha Jefferson Hospital, 459 Locust Avenue, Charlottesville, VA 22902. Telephone (434) 982-8134, e-mail [gilbert.glennie@mjh.org](mailto:gilbert.glennie@mjh.org).

Sincerely,

*Gilbert D. Glennie*

Gilbert D. Glennie

RECEIVED  
REGION 1  
DEC 10 P2:14

136109

NMSS/RGNI MATERIALS-002



## MEMO

Date: March 3, 2004

To: Radiation Safety Committee

From: Ralph Allen

During our last license amendment, the NRC incorporated wording from the new Part 35 regarding Authorized Medical Physicists. Item 11B. of our license states that "The Authorized Medical Physicist for this license shall meet the training and experience criteria specified in 10 CFR Part 35 and be designated in writing by the licensee's Radiation Safety Committee (RSC).

As Chair of the Radiation Safety Committee and with the approval of its members, the following individuals have been designated as Authorized Medical Physicists in accordance with the University of Virginia's Broad Byproduct License No.45-00034-26.

Gilbert D. Glennie

Certification: American Board of Medical Physics/Radiation Oncology Physics

Janelle A. Malloy

Certification: American Board of Medical Physics/Radiation Oncology

Alan Aqualino

Certification: American Board of Radiology/Therapeutic Radiological Physics

Harold Berk

Certification: American Board of Radiology/Therapeutic Physics

American Board of Medical Physics/Radiation Therapy Physics- Charter member

Suresh Agarwal

Certification: American Board of Medical Physics/Radiation Therapy Physics - Charter member

American Board of Radiology/Radiological Physics

A handwritten signature in cursive script that reads "Ralph Allen".

Dr. Ralph O. Allen, Chairman, Radiation Safety Committee

A handwritten date "3/10/4" in cursive script.

Date

## 1 Introduction

The following information is to be presented to the site Radiation Safety Officer (RSO), authorized user and the medical physicist and provides an overview of the VariSource safety features and emergency responses. This training does not represent clinical or applications training.



### US ONLY:

**During all patient treatments, the authorized user and either a medical physicist or the site Radiation Safety Officer must be physically present (see U.S. NRC Bulletin 93-01, April 20, 1993).**

The site Radiation Safety Officer shall be responsible for the formal radiation safety training as required by site policy and local regulatory requirements.

For the VariSource 200t model, this course shall be conducted with relevant personnel at all operational sites.

## 2 Regulatory Compliance / Site Specific Issues

It is the responsibility of the site to ensure regulatory compliance through the provision, maintenance and adequate testing of safety equipment and facilities.

### Feature

### Available

Independent Treatment Room Radiation Monitor	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Slave Radiation Monitor in Console Area	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Beam on lamps	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Calibrated Survey Meter	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Patient Video Monitoring	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Patient Audio Monitoring	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Emergency Lighting in Treatment Room	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Emergency Lighting in console Area	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
VariSource Emergency Procedures on Display	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
VariSource 24hr. Emergency Dispatch or Regional Service Office Phone Number Displayed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

## 3 VariSource Safety Features

Confirm that the location of the following features and the correct operation where required.

Three position key switch on Console (Lock, On, Treat)	Confirmed	<input checked="" type="checkbox"/>
Two position key switch on Afterloader (Lock, Treat)	Confirmed	<input checked="" type="checkbox"/>
STOP switch on Afterloader, Wall Box and Console Box	Confirmed	<input checked="" type="checkbox"/>
Treatment Room Door Interlock Switch	Confirmed	<input checked="" type="checkbox"/>
Last Man Out Switch	Confirmed	<input checked="" type="checkbox"/>
UPS for Afterloader and Console	Confirmed	<input checked="" type="checkbox"/>
Afterloader self-contained Emergency Retract Batteries	Confirmed	<input checked="" type="checkbox"/>
User mode Passwords (System access and Physics mode)	Confirmed	<input checked="" type="checkbox"/>
Unique 5 digit Password to deliver patient treatment	Confirmed	<input checked="" type="checkbox"/>
Afterloader Radiation Detector (with battery back-up)	Confirmed	<input checked="" type="checkbox"/>
Afterloader Active Wire Lock and status indicator (200t only)	Confirmed	<input type="checkbox"/> N/A
Closed-end catheters and applicators	Confirmed	<input checked="" type="checkbox"/>
Importance Of Containment Issues Discussed	Confirmed	<input checked="" type="checkbox"/>

#### 4 Retract Operations / Conditions

There are three separate levels of Active Wire retract condition on the *Varisource 200 Series* Afterloader.

##### 4.1 Main (Normal) Retract

A Stepper Motor retract occurs due to treatment completion, treatment interruption, or as a result of a non-emergency error.

Confirmed ☒

##### 4.2 D.C. Motor Emergency Retract

Engagement of the Emergency Retract Motor is initiated by a self-detected emergency condition or as a result of Main (Normal) Retract failure, such as failing to park the Active Source wire.

Confirmed ☒



The Emergency Retract Motor will operate until the Active wire reaches the parked position or until the Afterloader Retract Battery is drained. Site personnel are advised that the source may continue moving back into the Afterloader anytime that the hand wheel is turning.

##### 4.3 Manual Retract Handwheel

The manually operated Emergency Retract Handwheel is provided in the event that the Afterloader fails to retract the Active wire to the parked position.

Confirmed ☒

## 5 Emergency Procedures



**It is essential that the user familiarize themselves with and regularly rehearse the procedures outlined below.**

Refer to the document 'Emergency & Safety Instructions For SL777V & VS2000 Source Wires Used In VariSource HDR Afterloaders' (shipped with all source wires) for relevant Emergency Procedures

Confirmed ☒

With an **Inactive** wire installed, VariSource personnel will disconnect the Emergency Retract Batteries extend the Inactive wire to 150.0cm under Diagnostic Mode, and remove A/C power, leaving the **Inactive** wire extended.

Each site-designated person will perform a manual retract of the wire by turning the Emergency Handwheel until the wire is in the safe and parked position.

Confirmed ☒

## 6 Emergency Procedures

Varian Oncology Systems must be immediately notified by phone and provide a written account of the occurrence as soon as possible when any activity related emergency is encountered during the use VariSource equipment.

### **U.S. contact:**

24 Hours VariSource Dispatch (800) 864-1672

VariSource Service Manager  
Varian Oncology Systems  
596 Alder Drive  
Milpitas, California 95035  
Ph: 408-321-4494  
Fax: 408-321-4430

Confirmed ☒

### **International sites contact:**

The Regional Service Office as applicable.

Confirmed ☒



## Varian Brachytherapy

AL25244000 - VariSource 200 Series Customer Emergency  
Training Course

### 7 Acknowledgment of course demonstration

To be copied to each member of site personnel attending training course.

Institution Name Martha Jefferson  
Address 459 Locust Ave. Charlottesville VA  
VariSource Afterloader Serial Number VS304  
Date on which training completed 12-1-04

VariSource Representative

Print

Sign

Michael Haskell  
MH

Customer Representative(s):

Gil Glennie  
Print

Gil Glennie  
Sign

Medical Physicist  
Position

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This is to acknowledge the receipt of your letter/application dated

12/3/2004, and to inform you that the initial processing which includes an administrative review has been performed.

☒ AMEND, 45-23008-C1  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 136109.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.

BETWEEN: : (FOR LFMS USE)  
 : INFORMATION FROM LTS  
 : -----  
 :  
 License Fee Management Branch, ARM : Program Code: 02230  
 and : Status Code: 0  
 Regional Licensing Sections : Fee Category: 7C  
 : Exp. Date: 20140731  
 : Fee Comments: CODE 23  
 : Decom Fin Assur Req'd: N  
 : ::::::::::::::::::::::::::::::::::::::

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: MARTHA JEFFERSON HOSPITAL  
Received Date: 20041210  
Docket No: 3020158  
Control No.: 136109  
License No.: 45-23003-01  
Action Type: Amendment

2. FEE ATTACHED

Amount: /  
Check No.: /

3. COMMENTS

Signed M.A. Perkins  
Date 12/13/2004

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /\_\_ /)

1. Fee Category and Amount: \_\_\_\_\_

2. Correct Fee Paid. Application may be processed for:

Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

3. OTHER \_\_\_\_\_  
\_\_\_\_\_

Signed \_\_\_\_\_  
Date \_\_\_\_\_