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	<b>Varian Brachytherapy</b>
	AL25244000 - <b>VariSource 200 Series Customer Emergency Training Course</b>

## 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 of, 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 type="checkbox"/>	No <input checked="" 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"/>

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### 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"/>
Emergency Stop Switch	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 checked="" type="checkbox"/>
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**

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personnel are advised that the source may continue moving back into the Afterloader anytime that the hand wheel is turning.

**4.3 Active Source Wire Manual Retract Handwheel**

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

- Active Source Wire Only (Not for Dummy Wire Manual Retract) Confirmed
- Maximum of 1 2 Turns or until Radiation Detector is silenced Confirmed

**5 Emergency Procedures**



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

Refer to the VariSource 200 Series User Manual and relevant User Manual Amendment sheets 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

VBT North America Customer Support Manager  
Charlottesville, VA  
Ph: 434-977-8495, Extension 239

VBT Radiation Safety Officer  
Varian Brachytherapy  
Charlottesville, VA  
Ph: 434-977-8495, Extension 275

Confirmed

<b>VARIAN</b> medical systems	<b>Varian Brachytherapy</b> AL25244000 - <i>Varisource</i> 200 Series Customer Emergency Training Course
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**International Sites Contact:**

The Regional Service Office as applicable.

Confirmed

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**7 Acknowledgment of course demonstration**

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

Institution Name VIRGINIA HOSPITAL CENTER - ARLINGTON

Address 1701 N. GEORGE MASON

VariSource Afterloader Serial Number 600306

Date on which training completed 7-29-08

VariSource Representative

Print

MICHAEL HASKELL

Sign

Michael Haskell

Customer Representative(s):

Arnold M. Able  
Print

[Signature]  
Sign

Physicist  
Position

Donald A. McRae  
Print

[Signature]  
Sign

Physicist  
Position

ROBERT HONU  
Print

[Signature]  
Sign

Radiation Oncologist  
Position

Michael [Signature]  
Print

[Signature]  
Sign

Physicist  
Position

Timothy A. Jamieson  
Print

[Signature]  
Sign

Radiation Oncologist  
Position

Cynthia Rocca  
Print

[Signature]  
Sign

Therapist  
Position

Marie Meier  
Print

[Signature]  
Sign

RTT  
Position

Suzanne Milne  
Print

[Signature]  
Sign

RN  
Position

Janet Vo  
Print

[Signature]  
Sign

RTT  
Position

[Signature]  
Print

[Signature]  
Sign

RTT  
Position

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Address 1701 N. GEORGE MASON

VariSource Afterloader Serial Number 600306

Date on which training completed 7-29-08

VariSource Representative

Print MICHAEL HASKELL

Sign *Michael Haskell*

Customer Representative(s):

Donna J McCoy  
Print

*Donna J McCoy*  
Sign

Oncology Nurse  
Position

Iy-Tze Chen  
Print

*Iy-Tze Chen*  
Sign

Senior Therapist  
Position

Donna King  
Print

*Donna King*  
Sign

Administrator  
Position

\_\_\_\_\_  
Print

\_\_\_\_\_  
Sign

\_\_\_\_\_  
Position

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**Amendment Record**

Issue#	ncorp. by	Date	Pages affected	ECO No.
1	C Leak	04/2002	New Document, was previously TM59493000	EC9806
2	C Leak	11/2004	3. Emergency Stop Switch test added 4.3 Manual Retract – clarification of use age 5. Removed reference to AL25240000 – Emergency and Safety Instructions For VS2000 Source Wires Used In VariSource HDR Afterloaders 6. Updated contact details	EC12004