

VAMC TAMPA, FL
PO# 673-B20034

Qty	Product Description
Section 1 TrueBeam STx Novalis Package	

1.01 1 TrueBeam STx Package

1.02 1 TrueBeam STx System

TrueBeam STx System

Premium performance image-guided radiosurgery system

FEATURES:

- Performance per RAD 10094
- High speed, real time network control
- Synchronous, high precision motion, imaging, and dose trajectory management
- Patented variable beam energy generation
- Dual independent jaw collimator system, supporting dynamic jaw tracking and dynamic collimator rotation
- Enhanced dynamic wedge
- Electronic Accessory Detection and Verification system
- Treatment couch base with sub-millimetric positioning accuracy to isocenter
- LaserGuard II system, a laser protection zone-based proximity sensor that is used to alert the user of system proximity to the patient, associated immobilization devices, and to other parts of the system and limit motion if necessary
- Full remote motion control with software-selectable motion axis disable
- Autofield sequencing and full treatment delivery automation
- Radiation-hardened digital CCTV camera system for patient and motion monitoring
- 3D motion monitoring and touch detector systems
- Integrated controls with visual action prompts
- Two 27 inch monitors for treatment room viewing of system and patient information
- Soft light illumination and decorative curtain wall design elements
- Two 21 inch high performance monitors
- Integrated audio system, including intercom, respiration coaching, input for music
- Low profile console packaging with optional small footprint stacking
- Software-selectable IEC601 and IEC 1217 scale convention
- Basic quality assurance and performance test kit, including front pointer set and collimator crosshair
- Standard spare parts
- Smart connect remote access ready
- One (1) year full warranty
- Shipping (Shipment is pending regulatory clearance of this product in the ship-to country. Lead times after receipt of order may vary greatly by country.)

NOTE: The TrueBeam STx only supports IEC 601 or IEC 1217 scales. Conical collimator accessories (sometimes called "cones") must not be used for treating patients on this device without also using the Barcode Conical Collimator Verification (BCCV) product. Failure to use BCCV with conical collimators may result in serious injury or death due to a lack of verification that the correct conical

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		collimator and field size for that collimator are in place for that patient's treatment plan.
		PREREQUISITES:
		- ARIA Practice Management, Version 8.8.15, or comparable third party oncology information system.
		- ARIA Rad Onc, including Eclipse, Version 8.9.09.1, or comparable third party oncology information / treatment planning system
1.03	1	Base System Treatment License
		Includes static and arc X-ray treatment delivery license, supports maximum dose per field of 2500 MU for static fields and 7200 MU for intensity modulated fields
1.04	1	Use Existing Varian Baseframe
		Use of existing baseframe may require modification.
1.05	1	INCL ED: TrueBeam Physics and Admin
		The following Education Course is included with the purchase of a TrueBeam.
		- Includes Tuition and Materials for ONE person
		- Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals)
		- Training is non-refundable and non-transferable
		- Offer is valid for 18 months after installation of product
		TrueBeam Physics and Administration
		TrueBeam Physics and Administration course is designed for those personnel responsible for the acceptance, commissioning and QA program development of the TrueBeam in the clinical environment. It is directed primarily towards Medical Physicists. It is recommended that the student attend the TrueBeam Physics and Administration course shortly before the installation of the TrueBeam.
		The course provides instruction of the basic delivery components, basic imaging components and a general overview of the motion management system components. Machine commissioning, calibration, QA and the responsibilities of Customer Acceptance Procedure (CAP) of the machine are included. The course subject matter is presented from a clinical use perspective. The primary emphasis is on the overall commissioning, calibration, and QA of the TrueBeam and its components. Extensive hands-on laboratory exercises are included.
		PREREQUISITES: None
		Length:
		4 days

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1.06	1	<p>STD TRNG: TrueBeam On-Site Support</p> <ul style="list-style-type: none"> - Includes support for TrueBeam - Support is non-refundable and non-transferable - Offer is valid for 18 months after purchase <p>On site follow-up review of the TrueBeam components to include imaging and motion management for support of patient treatment. The emphasis of this support is to ensure that the therapists that attended the TrueBeam Operations (on-site) training are able to operate the TrueBeam in a safe and effective manner in the clinical environment.</p> <p>PREREQUISITES: TrueBeam Operations (on-site) training</p>
1.07	2	<p>INCL ED: TrueBeam Ops</p> <p>The following Education Course is included with the purchase of a TrueBeam:</p> <ul style="list-style-type: none"> - Includes Tuition and Materials for ONE person - Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals) - Training is non-refundable and non-transferable - Offer is valid for 18 months after installation of product <p>TrueBeam Operations is a course designed for those personnel responsible for the routine operation and clinical use of the TrueBeam. It is directed primarily towards Radiation Therapists. It is recommended that both students attend the TrueBeam Operations course shortly before clinical use and the commencement of patient treatments.</p> <p>The course provides instruction of the basic delivery components, basic imaging components and a general overview of the motion management system components. The course subject matter is presented from a clinical use perspective. The primary emphasis is on the overall understanding of the TrueBeam function and operation to include imaging and respiratory gating. Extensive hands-on laboratory exercises are included. The attendees of this class will be provided tools to allow them to instruct other clinical staff upon their return.</p> <p>PREREQUISITES: None</p> <p>Length: 4 days</p>
1.08	1	<p>6/6 MV Energy (per BJR 11/17)</p> <p>40 cm x 40 cm maximum field size, dose rate range 0-600 MU/Min</p>

Item	Qty	Product Description
1.09	1	8/8 MV Energy (per BJR 11/17) 40 cm x 40 cm maximum field size, dose rate range 0-600 MU/Min
1.10	1	10/10 MV Energy (per BJR 11/17) 40 cm x 40 cm maximum field size, dose rate range 0-600 MU/Min
1.11	1	6X High Intensity Mode 40cm x 40cm maximum field size, dose rate range 400-1400 MU/Min
1.12	1	10X High Intensity Mode 40cm x 40cm maximum field size, dose rate range 400-2400 MU/Min
1.13	1	18MV Not available for delivery until 2012 40 cm x 40 cm maximum field size, dose rate range 0-600 MU/Min
1.14	1	Electron Applicator Set 6cm x 6cm, 6cmx10cm, 10cmx10cm, 15cmx15cm, 20cmx20cm, 25cmx25cm Includes electron arc applicator and final defining aperture mold frame set
1.15	1	6 MeV 25 cm x 25 cm maximum field size, dose range range 0-1000 MU/Min
1.16	1	9 MeV 25cm x 25 cm maximum field size, dose rate range 0-1000 MU/Min
1.17	1	12 MeV 25cm x 25cm maximum field size, dose rate range 0-1000 MU/Min
1.18	1	16 MeV 25cm x 25cm maximum field size, dose rate range 0-1000 MU/Min

Item	Qty	Product Description
1.19	1	20 MeV 25cm x 25cm maximum field size, dose rate range 0-1000 MU/Min
1.20	1	HD 120 (TM) Multileaf Collimator - Performance per RAD 10094 - High resolution leaf width of 2.5 mm (projected at isocenter) for central 8 cm - Leaf width of 5 mm (projected at isocenter) for outer 14 cm
1.21	1	IMRT Treatment Delivery License Capability to simultaneously modulate aperture shape with dose delivery for a static gantry beam FEATURES: - Simultaneous modulation of MLC aperture shape and dose delivery for a static gantry beam - Supports dynamic jaw tracking and collimator rotation with supporting treatment planning system - Includes large field IMRT
1.22	1	SRS/SBRT High Total Dose License Required for delivery of hypofractionated or radiosurgical X-ray treatments FEATURES: - Provides the capability to deliver high dose fields for any X-ray treatment - Supports delivery of up to 6000 MU for a static aperture beam - Supports delivery of up to 10800 MU for an intensity or volumetric modulated beam NOTE: For total body irradiation treatments, the Total Body Treatment Delivery License is required
1.23	1	RapidArc Treatment Delivery License Capability to simultaneously modulate aperture shape, dose rate, and gantry angle and speed continuously for up to 360 degrees of gantry rotation, with delivery as an arc beam. When coupled with RapidArc Planning and a RapidArc-compatible information system, provides the capability to generate IMRT-quality dose distributions in a single, optimized arc around the patient. When coupled with the Optical Imager, provides the capability for Gated RapidArc. FEATURES:

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		<ul style="list-style-type: none"> - Simultaneous modulation of MLC aperture shape, beam dose rate, and gantry angle and rotation speed during beam delivery - Supports dynamic jaw tracking and collimator rotation with supporting treatment planning system - Provides IMRT-quality dose distributions in a single arc delivery in less than 2 minutes
1.24	1	Total Body Treatment Delivery License <p>Capability to deliver High Dose Total Skin Electron Treatment, Total Body Electron Irradiation, and Total Body X-ray Irradiation treatments</p> <p>FEATURES:</p> <ul style="list-style-type: none"> - Supports delivery of up to 6000 MU for Total Body Irradiation treatments - Supports delivery of up to 9000 MU for High Dose Total Skin Electron treatments
1.25	1	MV Imager <p>MV image acquisition and data analysis for target localization, patient positioning and motion management</p> <p>FEATURES:</p> <ul style="list-style-type: none"> - Performance per RAD 10094 - High precision, isocenter-aligned positioning system - aS1000 detector system for low dose, high resolution imaging - 2D image acquisition before, after, and during treatment delivery - Online image review and analysis
1.26	1	Basic MV Imaging License <p>Provides capability for radiographic and cine imaging and basic imaging matching for treatment verification</p>
1.27	1	Advanced MV Radiographic <p>Provides capability for 2D radiographic imaging, image analysis, and marker match</p>

Item	Qty	Product Description
1.28	1	Dynamic MV Imaging License <p>Provides capability for respiration-synchronized MV radiographic image acquisition</p> <p>PRE-REQUISITE: Optical Imager and accompanying Respiratory Gating Licence</p>
1.29	1	Portal Dose Image Acquisition License <p>Provides capability for portal dose image acquisition</p>
1.30	1	Port Film Graticule <p>Set of upper and lower port film graticules</p>
1.31	1	kV Imager <p>kV Image acquisition and data analysis, analysis for target localization, patient positioning and motion management.</p> <p>FEATURES:</p> <ul style="list-style-type: none"> - Performance per RAD 10094 - High precision, isocenter-aligned positioning system - X-Ray source and detector - 2D image acquisition before, after, or during treatment delivery - Online image review and analysis
1.32	1	Basic 2D kV Imaging License <p>Provides capability for 2D kV radiographic image acquisition and analysis, pretreatment fluoroscopic verification imaging and analysis, 2D marker matching, 2D MV/kV imaging and analysis, fluoroscopic image acquisition during treatment delivery</p>
1.33	1	kV CBCT Imaging License <p>Provides capability to acquire, process, and analyze in 3D a cone-beam volumetric CT dataset</p>
1.34	1	Dynamic kV Imaging License <p>Provides capability for respiratory gating-triggered kV radiographic image acquisition, during, after, and before treatment delivery.</p> <p>PRE-REQUISITE:</p>

Item	Qty	Product Description
		Optical Imager and accompanying Respiratory Gating License
1.35	1	Optical Imager <p>Stereoscopic optical imaging system for monitoring patient respiratory motion and 3D patient position</p> <p>Performance per RAD 10094</p>
1.36	1	Respiratory Gating License <p>Respiratory Gating License</p> <p>FEATURES:</p> <ul style="list-style-type: none"> - Provides the capability to synchronize image acquisition and treatment delivery with respiration - 3D patient position monitoring - Capability for gated arc therapy
1.37	1	INCL ED: Resp.Gating Admin. & Operations <ul style="list-style-type: none"> - Includes Tuition and materials for ONE person. - Attendees will be responsible for their own, airfare, hotel, rental car, meals and other travel incidentals. - Training is non-refundable and non-transferable. - Offer is valid for 18 months after installation of product. <p>The RPM course provides training for physicists, or therapists, to obtain knowledge of the principles and practice of respiratory gating in radiation oncology for clinical implementation.</p> <p>Duration:</p> <p>1 1/2 days</p>
1.38	1	Novalis Program <p>NOVALIS X-RAY POSITIONING</p> <p>B34900 EXACTRAC INFRARED PACKAGE</p> <p>49907 EXACTRAC CEILING MOUNTED MONITOR ARM</p> <p>B34901 EXACTRAC XRAY 6D PACKAGE</p> <p>49951 ET PREINSTALLATION KIT INFRARED / X-RAY</p> <p>49912 EXACTRAC X-RAY FLOOR CASING</p> <p>49100 EXACTRAC AUTOPOSITIONING FOR VARIAN EXACT</p> <p>49601 IMAGING COUCH TOP FOR VARIAN EXACT INCL. FRAMELESS EXTENSION</p> <p>B34340 FRAMELESS SRS PACKAGE</p> <p>49700 EXACTRAC ROBOTICS FOR VARIAN EXACT</p> <p>49577 EXACTRAC VERIFICATION PHANTOM</p> <p>20821 EXACTRAC DATA PUSH TO ARIA/ IMPAC / LANTIS</p> <p>20822 EXACTRAC INTRA-FRACTION SNAP VERIFICATION</p>

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NOVALIS PLANNING PLATFORM		
10958		iPLAN WORKSTATION PREMIUM WITH FLATSCREEN AND PRINTER
B33503		DICOM IMPORT
36020		TRANSFER "ANALYZE" NET (fMRI)
30045		DICOM RT STRUCTURE IMPORT
B33501		ADVANCED DICOM RT EXPORT PACKAGE
30034		DICOM QUERY AND RETRIEVE
NOVALIS PLANNING SOFTWARE		
21211		iPLAN RT IMAGE PLATFORM 4.1
21221		iPLAN RT ANGIOGRAPHIC REGISTRATION
21223		iPLAN RT DSA PROCESSING
21340		iPLAN AUTOMATIC IMAGE FUSION SOFTWARE
21220		iPLAN SMART BRUSH AND SMART SHAPER SEGMENTATION SOFTWARE
B32100		iPLAN AUTOMATIC SEGMENTATION PACKAGE
21213		iPLAN RT DOSE PLATFORM 4.1
20630		CIRCULAR ARC SRS/SRT PLANNING
23015		CONFORMAL AND DYNAMIC CONFORMAL SRS / SRT
23060		IMRS/IMRT INVERSE PLANNING
43800		SRT PLANNING FOR VARIAN MLCS
NOVALIS TREATMENT HARDWARE		
40210		NOVALIS TX COUCHMOUNT
41200		STEREOTACTIC HEADRING
41350		CT/X-RAY LOCALIZER & SUPPORT
40700-0		STEREOTACTIC TARGET POSITIONER
40952		NOVALIS TX QA EQUIPMENT
41611		NOVALIS TX CONICAL COLLIMATOR SET
NOVALIS SERVICES		
82993-10		PRE-INSTALLATION VISIT NOVALIS TX
82011-01		iPLAN WORKSTATION CONFIGURATION
82011-02		iPLAN RT SOFTWARE INSTALLATION
82012-01		BRAINLAB ACADEMY : TREATMENT PLANNING AND PHYSICS (1 PERSON/1 WEEK)
82039-01		NOVALIS FREIGHT INSURANCE AND FEES
82020-08		EXACTRAC X-RAY 6D INSTALLATION
82032-01		CASE COVERAGE / CLINICAL TRAINING ON-SITE (1 DAY BRAINLAB CLINICAL TRAINER)
82012-12		BRAINLAB ACADEMY Onsite Applications Training: STEREOTAXY (2 DAYS)
82022-01		BRAINLAB ACADEMY Onsite Applications Training: EXACTRAC (3 DAYS)
82032-01		CASE COVERAGE / CLINICAL TRAINING ON-SITE (1 DAY BRAINLAB CLINICAL TRAINER)

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1.39	1	BrainLAB ExacTrac X-RAY Positioning BL EXACTRAC B34900 EXACTRAC INFRARED PACKAGE 49907 EXACTRAC CEILING MOUNTED MONITOR ARM B34901 EXACTRAC X-RAY PACKAGE 49951 ET PREINSTALLATION KIT INFRARED / X-RAY 49912 EXACTRAC X-RAY FLOOR CASING 1 49100 EXACTRAC AUTOPOSITIONING FOR VARIAN EXACT 49601 IMAGING COUCH TOP FOR VARIAN EXACT INCL. FRAMELESS EXTENSION B34340 FRAMELESS SRS PACKAGE 49700 EXACTRAC ROBOTICS FOR VARIAN EXACT 24400-60 INSTALLATION EXACTRAC ROBOTICS/COUCH RECALIBRATION 49577 EXACTRAC VERIFICATION PHANTOM 1 20821 EXACTRAC DATA PUSH TO ARIA/IMPAC / LANTIS 20822 EXACTRAC INTRA-FRACTION SNAP VERIFICATION B34800 ET DATA/REMOTE/REVIEW/APPROVAL SOFTWARE BL NOVALIS SERVICES 82993-11 PRE-INSTALLATION VISIT 82022-01 BRAINLAB ACADEMY OAT: EXACTRAC (3 DAYS) 82020-08 EXACTRAC XRAY INSTALLATION 82032-01 CASE COVERAGE / CLINICAL TRAINING ON-SITE (1 DAY BRAINLAB CLINICAL TRAINER) 50780 FREIGHT, INSURANCE AND FEES
1.40	1	IGRT Couch Top Carbon fiber treatment couch top, free of metal or other radiation-opaque materials, thereby reducing imaging artifacts FEATURES: - Clinically usable section of 120.0 cm - Supports patients up to 500 lbs (227 kg) - Indexed Immobilization® for compatible accessories - Head extension with interface for alternative patient immobilization and positioning device
1.41	1	Exact IGRT Bar The Exact IGRT bar (set of three) is designed specifically to facilitate increased positive attachment of compatible accessories, such as the Patient Fixation vacuum form cushions. The bar is compatible with the Exact Couch Patient Fixation. While compatible with the vacuum form cushions of Patient Fixation with BF14 Baseplate, the lock bars will not secure the BF14 baseplate to the Exact IGRT couch top.

Item	Qty	Product Description
1.42	1	Body Pro-Lok Deluxe <p>The Body Pro-Lok System aids in providing comfortable patient positioning and immobilization for SBRT, Rapid Arc™, IMRT and Protons. Body Pro-Lok's bridge system provides numerous immobilization options for complex set ups. The platform allows you to use most two-pin indexable positioning devices including Vac-Lok Cushions, head & neck fixation devices and arm supports.</p>
1.43	1	Standard Stand Configuration
1.44	1	Upper Wedge Set <p>4-Way Wedge Set, including 15°, 30°, 45°, 60° wedges</p>
1.45	1	25 Drilled Block Trays <p>Drilled MEDTEC Star trays, 0.635 cm thickness Starting shadow block kit</p>
1.46	1	25 Undrilled Block Trays <p>Undrilled MEDTEC trays, 0.635 cm thickness Starting shadow block kit</p>
1.47	1	Patient/Accessory Verification System <p>Provides the capability of accessory identification through use of a barcode scanning system. Patient verification is not supported.</p> <p>FEATURES:</p> <ul style="list-style-type: none"> - One (1) Bar Code Scanner - One barcode label printer <p>PREREQUISITES:</p> <ul style="list-style-type: none"> - ARIA Practice Management, Version 8.8.15
1.48	1	Motion View <p>CCTV Camera Kit</p> <p>FEATURES:</p> <ul style="list-style-type: none"> - Two pan, tilt, zoom CCTV cameras - Two desktop, 81/4 inch LCD displays with built in camera controls - Adjustable viewing angle for patient privacy - Push button pan, tilt, zoom, and home position control

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1.49	1	Use Site Phantom for Acceptance Use of phantom provided by customer for generation of Clinac Acceptance Beam Profiles
1.50	1	Power Cond., 3phase 50KVA, TrueBeam Transtector 50KVA, 3-phase power conditioning unit, providing transient protection, line power regulation, and Input and Output circuit breakers for over-current protection. UL and IEC/CE certified.
1.51	1	Main Circuit Breaker Panel General Electric Co. main circuit breaker panel, interfacing to a single power input feed from the facility Mains. Circuit breakers provide independent over-current protection for equipment at the console and in the treatment room. UL and IEC/CE certified.
1.52	1	Quad Power Conditioner Transtector Power Conditioner Input: 208V, 240V, 480V or 600V Output: 208/120 V and 480/277 V
1.53	1	Millenium Warranty Three Year Warranty on Klystron, Electron Gun, Standing Wave Guide, Bend Magnet, and Solenoid Energy Switch, provided Varian is sole service provider. The use of non-Varian or third party parts will void the warranty. A minimum of two (2) bi-annual periodic maintenance inspections (PMIs) will be performed by Varian. These PMIs will be invoiced based on current labor rates in effect at the time they are performed unless a Varian service contract or support agreement is in effect. All additional Varian Terms and Conditions apply.

Section 2 Eclipse Treatment Planning System w/ AcurosXB

2.01 1 Eclipse Acuros External Beam

Eclipse™ treatment planning with Acuros™ advanced dose calculation

DESCRIPTION: This includes a site license for Acuros External Beam

FEATURE(S):

1. Dose calculation algorithm for photons using a grid-based Boltzmann solution

Item	Qty	Product Description
		<p>to achieve the same accuracy as Monte Carlo with no statistical noise in a fraction of the calculation time.</p> <p>LICENSE(S):</p> <ol style="list-style-type: none"> Acuros External Beam <p>PRE-REQUISITE(S):</p> <ol style="list-style-type: none"> Eclipse version 10.0 or higher must be installed on all Eclipse workstations in the network.
2.02	1	<p>Existing Ecl Single Wkst Config</p> <hr/> <p>Description:</p> <p>Existing Eclipse Single Workstation Configuration.</p>
2.03	1	<p>Upg Single to Serv Lic-3rd Party RV</p> <hr/> <p>Description:</p> <p>Upgrade site configuration from one Eclipse to multiple Eclipse clients with a dedicated server.</p> <p>PRE-REQUISITES:</p> <ol style="list-style-type: none"> Dedicated Server Local Area Network (1 Gb recommended, 100 Mb required) <p>FEATURES:</p> <ol style="list-style-type: none"> Eclipse Database Server License DICOM 3.0 CT/MR Image Import Server License DICOM RT Server License Integrated Health Enterprise Radiation Oncology RTOG DICOM Export DICOM Print <p>CUSTOMER RESPONSIBILITY:</p> <ol style="list-style-type: none"> A properly networked environment (for detailed information on network requirements, refer to the VARiS Network Configuration Guidelines at http://www.varisvision.varian.com).
2.04	1	<p>Planning for Varian Clinac</p> <hr/> <p>Description:</p> <p>This includes a site LMC license for a Varian Clinac</p> <p>FEATURE(S):</p> <ol style="list-style-type: none"> Leaf motion calculation software for multiple-static-segment delivery on a Varian Clinac. <p>LICENSE(S):</p> <ol style="list-style-type: none"> LMC for Varian Clinac

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		<p>PRE-REQUISTE(S):</p> <ol style="list-style-type: none"> 1. Latest software version must be installed on each Eclipse in the network 2. Interactive IMRT Planning and/or Electronic Surface Compensation
2.05	1	<p>Planning for Varian TrueBeam</p> <p>Planning for HET machine</p> <p>Description:</p> <p>This includes a site LMC license for a Varian TrueBeam.</p> <p>FEATURE(S):</p> <ol style="list-style-type: none"> 1. Leaf motion calculation software for multiple-static-segment and sliding window delivery on a Varian TrueBeam. <p>LICENSE(S):</p> <ol style="list-style-type: none"> 1. LMC for Varian Clinac 2. LMC for Varian TrueBeam <p>PRE-REQUISTE(S):</p> <ol style="list-style-type: none"> 1. Latest software version must be installed on each Eclipse in the network 2. Interactive IMRT Planning and/or Electronic Surface Compensation 3. Varian TrueBeam
2.06	6	<p>Eclipse IMX SFW - Additional</p> <p>Description:</p> <p>An additional software package for an Eclipse Integrated Treatment Planning optimized for IMRT planning.</p> <p>FEATURE(S):</p> <ol style="list-style-type: none"> 1. Base treatment planning software which includes multi-modality image support including PET contouring, image registration and blending, clinical protocols, advanced segmentation, virtual simulation, beam placement, plan evaluation, electronic plan approval, electronic chart and configurable printing of plan documentation. 2. 2D and 3D dose calculation on a distributed calculation framework including beam configuration, IRREG, 3D conformal and field in field planning using Anisotropic Analytical Algorithm (AAA) or pencil beam convolution, and electron calculation using Generalized Gaussian Pencil Beam 3. 2D BrachyVision for film based brachytherapy planning 4. IMRT Planning package including beam angle optimization, Interactive IMRT optimization, electronic surface compensation and planar compensation. Support either split carriages or large-field IMRT. Planning for frameless IMRS. 5. Virtual Simulation Laser Interface 6. IMRT Planning support available with a Varian HET includes leaf motion calculation algorithm integrated to the Eclipse Distributed Calculation Framework (DCF) to support both the sliding window (leaves move while radiation is ON) and multiple static segments (leaves move while radiation is paused and are static while radiation is ON). (This is available in v10.0 or higher and with a Varian HET). <p>LICENSE(S):</p>

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		<p>One (1) set of license of the above features</p> <p>PRE-REQUISITE(S):</p> <ol style="list-style-type: none"> 1. An Eclipse Calculation Workstation must be on order with this package (this workstation must be purchased from Varian Medical Systems). <p>OTHER(S):</p> <ol style="list-style-type: none"> 1. User and Configuration Manuals on CD (1 set) 2. One-year initial software support per RAD2750A
2.07	2	<p>Eclipse SV SFW - Additional</p> <p>Description:</p> <p>An additional software package for an Eclipse Integrated Treatment Planning optimized for the physician's desktop.</p> <p>FEATURE(S):</p> <ol style="list-style-type: none"> 1. Base treatment planning software which includes multi-modality image support including PET contouring, image registration and blending, clinical protocols, advanced segmentation, virtual simulation, beam placement, plan evaluation, electronic plan approval, electronic chart and configurable printing of plan documentation. 2. Virtual Simulation Laser Interface <p>LICENSE(S):</p> <p>One (1) set of license of the above features</p> <p>PRE-REQUISITE(S):</p> <ol style="list-style-type: none"> 1. An Eclipse Calculation or Non-Calculation Workstation must be on order along with this package (this workstation must be purchased from Varian Medical Systems). <p>OTHER(S):</p> <ol style="list-style-type: none"> 1. User and Configuration Manuals on CD (1 set) 2. One-year initial software support per RAD2750A
2.08	1	<p>4D Planning</p> <p>Description:</p> <p>This includes ONE (1) 4D Planning license.</p> <p>FEATURE(S):</p> <ol style="list-style-type: none"> 1. Import, export and management of 4D CT and PET image sets 2. Automatically register phase- or amplitude-binned image series together with any corresponding derived image series such as MIP, Min-IP, Average-IP or Free Breathing images. 3. View and assess the motion by displaying the 4D image series as movie loops and as blended (or "blinking") images for contouring, field setup and plan review 4. Display 4D image sets in 2D, 3D and digitally reconstructed radiograph (DRR) views. 5. Automatically create ITV's (Internal Target Volumes)

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		<p>LICENSE(S):</p> <ol style="list-style-type: none"> 1. 4D Planning License <p>PRE-REQUISITE(S):</p> <ol style="list-style-type: none"> 1. Software version 8.5 or higher must be installed on all Eclipse in the network.
2.09	1	<p>STD TRNG: 4D Planning</p> <hr/> <p>Training is included with the purchase of 4D Planning. Training plan details will be provided by the training management team as part of your product implementation process.</p>
2.10	1	<p>Electron Monte Carlo</p> <hr/> <p>Description:</p> <p>Site license for a fast Monte Carlo algorithm.</p> <p>FEATURE(S):</p> <ol style="list-style-type: none"> 1. Algorithm for calculation of dose for electron fields on Varian accelerators. <p>LICENSE(S):</p> <ol style="list-style-type: none"> 1. Electron Monte Carlo <p>PRE-REQUISITE(S):</p> <ol style="list-style-type: none"> 1. Latest software version must be installed on all Eclipse in the network. 2. Varian accelerator
2.11	1	<p>Portal Dosimetry Package</p> <hr/> <p>Portal Dosimetry Package</p> <p>Description:</p> <p>This includes one (1) each of Dose Image Acquisition and Dosimetry Review licenses and an additional Eclipse Dose Calculation license.</p> <p>FEATURES:</p> <ol style="list-style-type: none"> 1. Provides capability to perform pre-treatment IMRT QA. 2. Provides the ability to generate dose prediction images with the Eclipse planning system, to acquire dose images with the PortalVision electronic imager, and the ability to view and evaluate the correlation between images. 3. Provides automatic calculation of dose images for RapidArc® radiotherapy technology or conformal-arc IMRT treatment fields, which become part of the verification plan for a treatment. (This is available in v10.0 or higher and Eclipse RapidArc Planning License is present.) <p>LICENSE(S):</p> <ol style="list-style-type: none"> 1. One (1) Portal Dosimetry license (Dose Image Acquisition at one PortalVision, and one Varian Dosimetry Review license) 2. One (1) Eclipse Portal Dose Calculation license <p>PRE-REQUISITES:</p>

Item	Qty	Product Description
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1. Eclipse 3D Treatment Planning System (not including Eclipse SV)
2. PortalVision amorphous silicon imaging system
3. Compatible version of Varian Information Management system, or
4. Compatible version of Varian Image Management system
5. Dedicated Varian Image management server hardware.

2.12 1 INCL ED: Portal Dosimetry

- Includes Tuition and Materials for ONE person.
- Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals), unless otherwise stated.
- Course is non-refundable and non-transferable.
- Offer is valid for 18 months after installation.

The Portal Dosimetry course will cover commissioning, calibration and operation of Portal Dosimetry system. Course intended for the Physicist.

Topics covered include introduction to Portal Dosimetry system covering hardware and software, Portal Dosimetry calibration, acquisition of portal dose images for dynamic delivery, analysis of portal dose images and recommended QA tests. Course curriculum includes practical exercises with live beam using aSi1000 Portal imager.

Prerequisites:

- User of Varian PortalVision system, basic knowledge of Vision system
- Attendance in the Eclipse Administration and Physics course
- Recommend attendance in the Eclipse IMRT Administration and Physics course
- Clinical IMRT experience

Length

2 Days

For detailed course information and on-line registration, visit the Varian website at <http://www.varian.com/index.html>.

2.13 1 Eclipse RapidArc Planning License 1st

DESCRIPTION: This includes one (1) Eclipse Dose Dynamic Arc module for RapidArc planning

FEATURE(S):

1. Eclipse Dose Dynamic Arc option for RapidArc planning supports dynamic arc treatments produced through volumetric dose optimization.
2. This option uses Dynamic MLC, variable dose rate, and variable gantry speed to generate intensity modulated dose distributions in optimized arcs.
3. Supports coplanar and non-coplanar arcs.
4. Supports full arcs, partial arcs and avoidance sectors.
5. Automated determination of number of arcs and number of isocenters for large targets. (This is available in v10.0 or higher.)
6. Simple collision detection rules. (This is available for v10.0 or higher.)
7. Automatic Normal Tissue Objective. (This is available for v10.0 or

Item	Qty	Product Description
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higher.)

8. Mean dose objective. (This is available for v10.0 or higher.)

LICENSE(S):

1. Eclipse Dose Dynamic Arc software option and license
2. Conformal Arc for dMLC

PRE-REQUISITE(S):

1. Eclipse version 8.6 or higher must be installed on all Eclipse workstations in the network
2. Interactive IMRT Planning on Eclipse workstations
3. Varian Linear Accelerator with RapidArc Delivery
4. Minimum hardware requirements as per http://www.varian.com/us/oncology/services_and_support/hardware_specifications/

2.14 1 INCL ED: Rapid Arc Operations

- Includes Tuition and materials for ONE person.
- Attendees will be responsible for their own, airfare, hotel, rental car, meals and other travel incidentals.
- Training is non-refundable and non-transferable.
- Offer is valid for 18 months after installation of product.

The Rapid Arc course provides instruction on Rapid Arc planning.

The target audience for the class is anyone involved with treatment planning, specifically Dosimetrists.

The course will provide instruction in the treatment planning principles and knowledge to support planning in Rapid Arc. The lab portion will provide hands-on Rapid Arc planning experience under the guidance of a Varian instructor.

Prerequisites:

- Must observe prerecorded Rapid Arc Operations Live Meeting prior to class attendance
- Experience with and knowledge of Eclipse IMRT treatment planning
- Basic knowledge of computers and the Windows Operating system

Length & Location:

1 1/2 days

Varian Education Center, Las Vegas, NV

2.15 2 Eclipse RapidArc Planning License Addl

DESCRIPTION: This includes one (1) additional Eclipse Dose Dynamic Arc module for RapidArc planning license

FEATURE(S):

1. Eclipse Dose Dynamic Arc option for RapidArc planning supports dynamic arc treatments produced through volumetric dose optimization.
2. This option uses Dynamic MLC, variable dose rate, and variable gantry speed to generate intensity modulated dose distributions in optimized arcs.

Item	Qty	Product Description
3.		Supports coplanar and non-coplanar arcs.
4.		Supports full arcs, partial arcs and avoidance sectors.
5.		Automated optimization of multiple isocenter plans. (This is available in v10.0 or higher.)
6.		Simple collision detection rules. (This is available for v10.0 or higher.)
7.		Automatic Normal Tissue Objective. (This is available for v10.0 or higher.)
8.		Mean dose objective. (This is available for v10.0 or higher.)

LICENSE(S):

1. Eclipse Dose Dynamic Arc software option and license
2. Conformal Arc for dMLC

PRE-REQUISITE(S):

1. Eclipse version 8.6 or higher must be installed on all Eclipse workstations in the network
2. Interactive IMRT Planning on Eclipse workstations
3. Varian Linear Accelerator with RapidArc Delivery
4. Minimum hardware requirements as per http://www.varian.com/us/oncology/services_and_support/hardware_specifications/

ARO:

The current best estimate for installation lead time is 150 days.

2.16 1 Eclipse Smart Seg Auto Contouring

Description:

The Smart Segmentation system expands Eclipse's suite of single-organ automatic image segmentation algorithms to include the automatic delineation of multiple organs or regions of interest.

FEATURE(S):

1. Smart Segmentation contours body and bone in all CT datasets and other organs of interest in the thorax and male pelvis. The system is implemented in such a way that DICOM CT formatted image data can be transferred to the Smart Segmentation system. The CT images are automatically segmented and made available for subsequent DICOM transfer to treatment planning and management systems.

Available in v8.9 or higher:

2. Bones of female pelvis will be segmented
3. Segmentation of thorax and pelvis Structures in full body images is supported as well
4. Improved segmentation of bones (pelvis and femur and others), external head contour and the thoracic spinal canal
5. Introduction of new structures such as seminal vesicles and gold markers
6. New user definable structure margins
7. Improved artifact correction and handling of calcifications
8. The Smart Segmentation can also be accessed from the SmartAdapt 1.1 application
9. Multiple Services per site may be installed and managed with the Segmentation Monitor

Item	Qty	Product Description
		<p>LICENSE(S):</p> <ol style="list-style-type: none"> 1. Domain license for the pelvis (All Eclipse workstations in one network domain can access the Smart Segmentation service) <p>Domain license for the thorax</p> <p>PRE-REQUISITE(S)</p> <ol style="list-style-type: none"> 1. Eclipse Treatment Planning System version 8.0 or higher <p>OTHER(S):</p> <ol style="list-style-type: none"> 1. Installation 2. User documentation on CD.
2.17	1	<p>INCL ED: Eclipse Upgrade E-Learning</p> <p>The Eclipse Upgrade v8.1 E-Learning module reviews the differences in the feature set from Eclipse v8.0 to Eclipse v8.1. The module discusses the new image handling features and changes in the handling of structures. Also included are explanations of the improvements in the calculation framework, opening multiple instances of Eclipse, using templates to batch print plan reports and mandatory planning approval. New features controlled by purchased licenses are also presented: new beam angle optimization feature, creation of 4D plans and the Smart Segmentation Service.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> - Eclipse Upgrade to v8.1 <p>Length & Location:</p> <ul style="list-style-type: none"> - Self-study via the Internet <p>Course details available at http://www.varian.com/classroomtraining</p>
2.18	7	<p>Framework Agent Server</p> <p>Framework Agent Server (FAS)</p> <p>Description:</p> <p>The Framework Agent Server (or FAS) is a high performance server dedicated exclusively to running Varian's Eclipse Distributed Calculation Framework (DCF). FAS with DCF leverages specialized Grid Clustering power (network-based parallel processing) to optimize throughput for Eclipse planning and dose calculation in both native client/server topologies and Citrix environments. Multiple Framework Agent Servers may be configured from what is known as a "FAS Array."</p> <p>Pre-Requisites:</p> <ol style="list-style-type: none"> 1. Customer must have at least one (1) Calculation license (e.g. Eclipse EX, Eclipse IMX and Eclipse DX) <p>Customer Responsibility:</p> <ol style="list-style-type: none"> 1. A properly networked environment connected at 1Gbps. It is recommended that all FAS, DB and if possible Eclipse clients be connected to the same network

Item	Qty	Product Description
		<p>switch.</p> <ol style="list-style-type: none"> 2. Varian shall be provided with remote access to the intended FAS. 3. A domain account including credentials with local administrator privileges for each intended FAS shall be made available to Varian. 4. Installation of the server into a pre-existing or Varian provided Rack with 1U space per server: <ol style="list-style-type: none"> a. Rack configuration (i.e. wire management, power, networking, cooling, etc); b. Addition of server to an existing customer domain. <p>Notes:</p> <ol style="list-style-type: none"> 1. In a Citrix Environment running Eclipse, FAS will be required equipment if Calculation is to be leveraged and there are no existing Eclipse Calculation Workstations in the network. FAS can also be added to the "traditional environment" (without Citrix) where there are native Eclipse Clients such as, EX, IMX, and DX Workstations. In this setup, FAS can be added as an enhancement but not as a requirement. There can also be a mix of both Citrix and "traditional" setup leveraging FAS for calculation. 2. The server hardware does not come with installation and it is considered "customer installable" by the customer's IT Dept. If installation is required, it will be at a billable rate. 3. The DCF Agent software is the only software to be installed on the FAS and may be configured remotely or on site by Varian Software Support or Installations.

2.19 1 Small / Medium TPS Rack Server Package

This hardware meets the recommended specification for v10.0 or higher.

The Medium Rack TPS Server Package consists of the following: (2U) Rack Mount Chassis

Varian currently provides state-of-the-art Intel® Multi-Core Xeon® Processors with this DELL® server. Redundancy is achieved with RAID 1 (OS & APP), RAID 5 (DB & DB LOG), and RAID 5 (DB Dumps and Image Directory).

LTO external tape autoloader, tapes, and software are included for backup. – 2U Rack mount chassis

Full Height Server Rack

Varian currently provides the Dell™ PowerEdge™ 42U Server Rack with KVM switch, UPS, monitor, keyboard and mouse.

NOTES:

Varian reserves the right to upgrade this server's hardware to the then current model available at time of shipment.

Varian will not be responsible for service or support for any customer purchased computer hardware or software.

For a detailed description of our hardware recommendations, please refer to the Varian website: <http://www.varian.com/hardware Specs>.

Item	Qty	Product Description
2.20	2	<p>Citrix Server-Rack not included</p> <p>This hardware meets the recommended specifications for ARIA v.10.0 and higher.</p> <p>Citrix Server - (1U) Rack Mount Chassis</p> <p>Varian currently provides state-of-the-art Intel® Multi-Core Xeon® Processors with DELL® servers. Redundancy is achieved via RAID 1.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. No internal or external backup unit is included with this server. 2. Varian reserves the right to upgrade this server's hardware to the then current model available at time of shipment. 3. Varian will not be responsible for service and support for any customer purchased computer hardware or software. 4. For a detailed description of our hardware recommendations, please refer to the Varian website: http://www.varian.com/hardwarespecs. <p>CUSTOMER RESPONSIBILITY:</p> <ol style="list-style-type: none"> 1. A properly networked environment; 100 Mbps (1 Gbits recommended) for LAN and T1 or faster for WAN (T3 is highly recommended); (For detailed information on network requirements, refer to the Network Configuration Guidelines at http://www.varian.com/hardwarespecs); and 2. Customer to purchase in advance appropriate quantities of Citrix licenses; and 3. Varian shall be provided with remote access to the intended Citrix Server(s) 4. A domain account including credentials with local administrator privileges for each intended Citrix server shall be made available to Varian 5. Customer shall self-maintain all aspects of the Citrix environment such as but not only limited to the following: <ol style="list-style-type: none"> (1) Adding additional Citrix licenses, Terminal Server CALs, Operating System CALs and (2) Adding additional users, and (3) Adding additional Citrix server hardware, and (4) Adding Citrix server(s) to your domain, and (5) Citrix software updates and upgrades, and (6) Maintenance and Support agreements with Citrix Systems, Inc., and
2.21	1	<p>Citrix SW Install New Normal Bus Hours</p> <p>Citrix® Software Installation (New) During Normal Business Hours</p> <p>Citrix XenApp™ (or Presentation Server®) Software Installation for Windows® Server Operating Systems</p> <p>DESCRIPTION:</p> <p>Citrix XenApp (or Presentation Server) Software is an application delivery system that virtualizes client side applications over one or more servers. Users are typically able to access the virtualized applications securely over any network.</p> <p>ARIA Client applications if purchased under Practice Management and Radiation</p>

Item	Qty	Product Description
		<p>Oncology will be published in a Citrix environment. Eclipse Treatment Planning Client application if purchased will be published in a Citrix environment. Review the then-current Citrix Customer Release Notes to understand a) what limitations exist with ARIA or Eclipse client applications or features when published in a Citrix farm, b) what editions of Citrix have been qualified for ARIA and Eclipse, and c) what support exists for national languages.</p> <p>One (1) XenApp (or Presentation Server) will be created whereas additional servers may be joined to this farm afterwards. XenApp (or Presentation Server) software can be installed onto multiple servers intended for a Citrix Farm. The XenApp (or Presentation Server) that hosts the Citrix IMA database shall be the single licensing and authentication entity while remaining servers in the Citrix farm will make pass-through requests. Neither Citrix licenses nor any hardware for this environment are included.</p> <p>PREREQUISITES:</p> <ol style="list-style-type: none"> Compatible Citrix XenApp (or Presentation Server) licenses with adequate quantities shall be procured by the customer <ol style="list-style-type: none"> Review the then-current Citrix Customer Release Note for qualified Citrix editions Windows Server CALs and Windows Terminal Server CALs with adequate quantities shall be procured by the customer Hardware compatible for a Citrix installation shall be installed in a networked environment by the customer Network requirements for Citrix Server; 100 Mbps (1 Gbps recommended) for LAN and T1 or faster for WAN (T3 is highly recommended) <p>SINGLE SERVER OR FIRST SERVER IN FARM HARDWARE REQUIREMENTS:</p> <ol style="list-style-type: none"> For a detailed description of our current hardware recommendations, please refer to the Varian website: http://www.varian.com/hardwarespecs Varian will not be responsible for service or support for any customer purchased computer hardware or software. <p>ADDITIONAL SERVERS IN FARM HARDWARE REQUIREMENTS (sold separately):</p> <ol style="list-style-type: none"> For a detailed description of our current hardware recommendations, please refer to the Varian website: http://www.varian.com/hardwarespecs Varian will not be responsible for service or support for any customer purchased computer hardware or software. <p>3. CUSTOMER RESPONSIBILITY:</p> <ol style="list-style-type: none"> Citrix compatible hardware purchased by customer (for detailed information on hardware requirements, refer to http://www.varian.com/hardwarespecs; and A properly networked environment (For detailed information on network requirements, refer to the Network Configuration Guidelines at http://www.varian.com/hardwarespecs) Customer to purchase in advance appropriate quantities of Citrix XenApp (or Presentation Server) licenses, Windows Server Client Access Licenses (CAL), and Windows Terminal Server (CAL) for the Citrix environment Varian shall be provided with remote access to the intended Citrix Server(s) A domain account including credentials with local administrator privileges for each intended Citrix server shall be made available to Varian

Item	Qty	Product Description
		<p>9. Customer shall self-maintain all aspects of the Citrix environment post VARIAN's initial installation such as but not only limited to the following:</p> <ul style="list-style-type: none"> a. Adding additional Citrix licenses, and b. Adding additional users, and c. Adding additional Citrix server hardware, and d. Adding Citrix server(s) to your domain, and e. Citrix software updates and upgrades, and f. Maintenance and Support agreements with Citrix Systems, Inc., and g. Maintain a silo environment for ARIA and/or Eclipse clients over Citrix. <p>INSTALLATION AND SUPPORT:</p> <p>The following items are included with this project:</p> <p>Organize and attend meetings with IT/S personnel regarding</p> <ul style="list-style-type: none"> (1) Hardware for Citrix Server(s) (a) Citrix XenApp (or Presentation Server) Software (b) Operating System needs (c) Citrix licensing needs (d) Terminal Server licensing needs (e) SQL 2005 Express Edition or SQL Server Full Edition needs (f) Collect pertinent data required for the Citrix install (g) Domain or Active Directory needs (2) Install Citrix XenApp (or Presentation Server) software onto a single or first server of a Citrix Farm (a) Install and Configure IMA Database (3) Create Website and Verify Website Configuration(s) (4) Create Citrix Administrative Accounts (5) Create and Apply Citrix Policies (6) Create Application Isolation Environment (AIE) for ARIA or Eclipse clients (a) AIE is not required with ARIA and / or Eclipse version 10.0 and later (b) Refer to the then-current Citrix Customer Release Notes (7) Install ARIA and/or Eclipse client application(s) (8) Publish ARIA and/or Eclipse client application(s) (9) Provide basic fundamental training for users to access ARIA or Eclipse clients over Citrix <p>Installation of Citrix and Varian client applications onto any additional server(s) after the initial Citrix server with IMA database, licensing, and website portal will be based separately and are not included in this line item.</p> <p>Citrix XenApp (or Presentation Server) installation and support will not be covered as part of any of VARIAN service agreement.</p> <p>Installer will train the hospital IT/IS staff on the basic fundamentals as part of the installation process.</p> <p>Onsite Citrix installations will be subject to any and all additional charges related to travel on behalf of Varian at cost.</p> <p>NOTES:</p> <ul style="list-style-type: none"> 1. If the customer requires work to be completed during non-normal business hours, then do not quote this item; instead a quote is needed for Citrix SW Install

Item	Qty	Product Description
		New Non-Normal Bus Hours.

Section 3 Eclipse Education

3.01 2 ED: TrueBeam Physics and Admin

- Includes Tuition and Materials for ONE person
- Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals)
- Offer is valid for 18 months

TrueBeam Physics and Administration course is designed for those personnel responsible for the acceptance, commissioning and QA program development of the TrueBeam in the clinical environment. It is directed primarily towards Medical Physicists. It is recommended that the student attend the TrueBeam Physics and Administration course shortly before the installation of the TrueBeam.

The course provides instruction of the basic delivery components, basic imaging components and a general overview of the motion management system components. Machine commissioning, calibration, QA and the responsibilities of Customer Acceptance Procedure (CAP) of the machine are included. The course subject matter is presented from a clinical use perspective. The primary emphasis is on the overall commissioning, calibration, and QA of the TrueBeam and its components. Extensive hands-on laboratory exercises are included.

PREREQUISITES: None

Length:
4 days

Varian's obligation to provide training is valid up to 18 months after product or order acceptance as applicable

3.02 2 ED: Eclipse Operations

- Includes Tuition and Materials for one person.
- Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals), unless otherwise stated.

The Eclipse Operations course provides an initial training for Dosimetrist, Physicists and others responsible for daily use of the treatment planning system in the clinical environment. The course will provide an overview of Eclipse structure, graphical user interface, different workspaces and tasks.

The focus will be on the import of CT data, image registration, structure segmentation, creation and edits of plans, fields and beam modifiers and evaluation of plans. Other topics include 2D planning using the digitizer and irregular field planning, simply brachytherapy and export to the record and verify

Item	Qty	Product Description
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system. 3rd party software is also covered.

Prerequisites:

- Experience with and knowledge of treatment planning
- Basic knowledge of computers and the Windows Operating system

Length & Location:

5 days

Varian Education Center

For detailed course information and on-line registration, visit the Varian website at <http://www.varian.com/index.html>.

Varian's obligation to provide training is valid up to 18 months after product or order acceptance as applicable

3.03 2 **ED: Eclipse Administration and Physics**

- Includes Tuition and Materials for one person.
- Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals), unless otherwise stated.

Prerequisites: New user

Location: Varian Education Center

Time: 4.5 Days

Students: Physicists, Dosimetrist interested in system configuration

The Eclipse Administration and Physics course is offered to provide initial training for the individual responsible for initial system configuration and routine administration of Eclipse.

The administration component of the course will focus on networking, system structure, OSP server, management of user accounts and routine data backup. Physics part of the course will cover beam data measurement, transfer, configuration and validation for the Eclipse treatment planning system. It will also include sections on photon and electron beam algorithms. A portion of the instruction time will be devoted to an overview of basic operation of Eclipse external beam planning workspace. RT Chart will also be covered as well as plan revisions.

Course details and registration are available at <http://www.varian.com/index.html>.

Varian's obligation to provide training is valid up to 18 months after product or order acceptance as applicable

3.04 2 **ED: Eclipse IMRT Admin Physics**

- Includes Tuition and Materials for one person.
- Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals), unless otherwise stated.

Item	Qty	Product Description
		<p>The course will cover IMRT planning with the Eclipse System and the delivery of IMRT using Varian dMLC. The Varian IMRT solution will be presented during the course, including the integration into the ARIA system. Course designed for the Physicist.</p> <p>Part ONE will cover the use of the Eclipse IMRT software encompassing the full treatment planning process with typical clinical case demonstration. Topics include IMRT planning algorithms, interfacing with other devices, definition of optimization parameters, QA parameters, and system commissioning. Part of the training course is reserved for hands-on training to covers typical clinical cases. A guest speaker will present on the use of IMRT planning in the clinical environment, clinical outcomes of IMRT, and radiobiological considerations (DVH, partial DVH, dose volume constraints).</p> <p>Part TWO covers delivery methods. Topics covered include a detailed description of the MLC hardware, the MLC and Clinac control systems for dynamic dose delivery, dMLC QA issues, and patient related QA procedures.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> - Attendance of Eclipse Administration and Physics Course and/or Eclipse Operations Course; - 2-3 month routine clinical use of Eclipse recommended <p>Length & Location:</p> <p>5 days</p> <p>Varian Education Center</p> <p>For detailed course information and on-line registration, visit the Varian website at http://www.varian.com/index.html. Course is approved for Category "A" ASRT and MDCB continuing education credits.</p> <p>Varian's obligation to provide training is valid up to 18 months after product or order acceptance as applicable</p>

3.05 2 ED: Eclipse IMRT Ops

- Includes Tuition and Materials for one person.
- Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals), unless otherwise stated.

The Eclipse IMRT Operations course provides instruction on inverse treatment planning with the Eclipse System. Course is designed for the Physicist and Dosimetrist.

Course will cover the entire IMRT treatment planning process demonstrated on clinical cases such as prostate, breast and head and neck. Other topics covered are theory behind IMRT, contouring for IMRT, objectives and constraints, verification plan, data export and image registration. Majority of the course is reserved for hands-on application.

Item	Qty	Product Description
		<p>Prerequisites:</p> <ul style="list-style-type: none"> - Attendance in the Eclipse Operations course - Recommend 2-3 month routine clinical use of Eclipse prior to course attendance. <p>Length & Location:</p> <p>4 days</p> <p>Varian Education Center</p> <p>For detailed course information and on-line registration, visit the Varian website at http://www.varian.com/index.html. Course is approved for Category "A" ASRT and MDCB continuing education credits.</p> <p>Varian's obligation to provide training is valid up to 18 months after product or order acceptance as applicable</p>
3.06	2	<p>ED: Rapid Arc Operations</p> <ul style="list-style-type: none"> - Includes Tuition and Materials for one person. - Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals), unless otherwise stated. <p>The Rapid Arc course provides instruction on Rapid Arc planning.</p> <p>The target audience for the class is anyone involved with treatment planning, specifically Dosimetrists.</p> <p>The course will provide instruction in the treatment planning principles and knowledge to support planning in Rapid Arc. The lab portion will provide hands-on Rapid Arc planning experience under the guidance of a Varian instructor.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> - Must observe prerecorded Rapid Arc Operations Live Meeting prior to class attendance - Experience with and knowledge of Eclipse IMRT treatment planning - Basic knowledge of computers and the Windows Operating system <p>Length & Location:</p> <p>1 1/2 days</p> <p>Varian Education Center</p> <p>Varian's obligation to provide training is valid up to 18 months after product or order acceptance as applicable</p>