

THE INFORMATION IN THIS BOX IS NOT A PART OF THE CONTRACT AND IS FOR COUNTY USE ONLY



Contract Number

24-651

SAP Number

Arrowhead Regional Medical Center

Department Contract Representative	Andrew Goldfrach
Telephone Number	(909) 580-6150
Contractor	Varian Medical Systems, Inc.
Contractor Representative	Jennifer Hunt
Telephone Number	(619) 894-0723
Contract Term	
Original Contract Amount	\$3,760,646
Amendment Amount	N/A
Total Contract Amount	\$3,760,646
Cost Center	7642
Grant Number (if applicable)	N/A

Briefly describe the general nature of the contract: Quotation No. 2024-463459 with Varian Medical Systems, Inc. for the purchase of a TrueBeam Radiotherapy System in the amount of \$3,760,646.

FOR COUNTY USE ONLY

Approved as to Legal Form

► Bonnie Uphold
Bonnie Uphold, Supervising Deputy County Counsel

Date 7/15/2024

Reviewed for Contract Compliance

►

Date

Reviewed/Approved by Department

► Andrew Goldfrach
Andrew Goldfrach, ARMC Chief Executive Officer

Date 7/15/2024



A Siemens Healthineers Company

TrueBeam Proposal

Quotation Number - 2024-463459

This TrueBeam quote includes:

-Removal and disposal of existing Linac H294372, Trade in credit included

*A Varian project manager will confirm the technology configuration, ship to location, rigging dates and customer will issue PO prior to the build and shipment of your systems. The System will be shipped with the most current version available for the items purchased.

*This Quotation Number 2024-463459 is subject to the Master Agreement between San Bernardino County on behalf of Arrowhead Regional Medical Center and Varian Medical Systems, Inc. having an Effective Date of August 24, 2021.

Looking further



*** Confidential - Proposal is intended for Recipient and Recipient's Site Representatives Only ***

San Bernardino County on behalf of Arrowhead
Regional Medical Center ("Customer")
400 N. Pepper Ave
Colton CA 92324-1801 United States

VMS Inc, Oncology Systems

Jennifer Hunt
District Sales Manager
Work From Home
Seattle, WA 99999 United States of America
Tel : 6198940723
Email : jennifer.hunt@varian.com

*** Confidential - Proposal is intended for Recipient and Recipient's Site Representatives Only ***

Quote Information

Quotation Number : 2024-463459

Quotation Valid Until : July 31, 2024

Customer Requested Delivery Date : July 31, 2025

Customer Procurement Contact Name : Needed

Billing Plan

See Quote billing plan Summary on the following pages which is incorporated by reference

Sales

Incoterms : DPU Site Insured

Payment Terms : 45 days net

Sales PO Required : Yes

Quotation Total

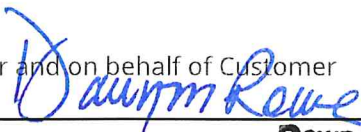
Quotation Total : US \$3,760,646.00

Terms and Conditions

Products and Services: Customer's access to and use of the Products, Support Services and Services (except Software-as-a-Service or Subscription Services) as indicated in this Quotation are subject to and governed by: (a) the Varian Terms and Conditions of Sale (Form RAD 1652) at: https://varian.com/RAD1652V_US_EN_MAR_2024 and (b) any Schedules, Exhibits and/or additional terms (including third party terms) contained, attached, referenced or otherwise indicated in this Quotation. All terms and conditions provided in the website link listed in item (a) above are incorporated by reference and form part of the contract between Varian and Customer.

If there is a separate written agreement (e.g. master agreement) in effect between the parties that expressly provides for and governs the purchase and sale of the specific Products, Support Services, Services, Software-as-a-Service and/or Subscription Service set forth in this Quotation, such written agreement shall govern. Hard copies of the referenced terms and conditions and any additional terms indicated will be provided to Customer upon request.

For and on behalf of Customer



Authorized Representative : **Dawn Rowe**

Title : **Chair, Board of Supervisors**

Date : **JUL 23 2024**

For and on behalf of Varian Medical Systems

Jennifer Hunt

Authorized Representative : **Jennifer Hunt**

Title : **District Sales Manager**

Date : **25/06/24**

This Agreement may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, and such counterparts shall together constitute one and the same Agreement. The parties shall be entitled to sign and transmit an electronic signature of this Agreement (whether by facsimile, PDF or other email transmission), which signature shall be binding on the party whose name is contained therein. Each party providing an electronic signature agrees to promptly execute and deliver to the other party an original signed Agreement upon request.

Billing Summary



Sales Summary	
Value	Billing
0.00%	On Down Payment
80.00%	On Shipment
20.00%	On Acceptance
For orders equal or less than \$100k, 100% upon shipment, net 30.	

Quotation Summary



Offered Products (Sales)

Scalable TrueBeam	Included
Mobius Patient QA	Included
DoseLab Patient QA + Phantoms	Included
Velocity with 2 concurrent licenses	Included
Eclipse Expansion	Included
Eclipse GPU kits for workstations	Included
One GPU FAS	Included
One Physician Desktop License	Included
RapidPlan Adoption and scripting	Included
Applications Training	Included
Additional Course Tuitions	Included
Adhoc	Included
Adhoc	Included

Item	Description	
1.0	Scalable TrueBeam	
1.1	TrueBeam v3.0	1
1.2	<p>TrueBeam Base System 120 MLC</p> <p>Treatment delivery system includes 120 leaf MLC with dual independent jaws, enhanced dynamic wedge, 6 MV X-ray treatment energy, 43 cm x 43 cm MV imager for radiographic, cine, and integrated imaging, Motion View CCTV camera system, treatment console with integrated audio and video systems, back pointer lasers, front pointer set, upper port film graticule to support basic quality assurance, and drum phantom for Machine Performance Check (MPC).</p> <p>Features:</p> <ul style="list-style-type: none"> • Basic X-Ray treatment delivery technique package, including Static Photon, Photon Arc, and Dynamic Conformal Arc treatment delivery techniques • Intensity Modulated Radiotherapy (IMRT) treatment technique, including large field IMRT • Total Body Treatment technique package • 2D MV Radiographic and Cine Image Acquisition, 2D/2D Radiographic Image Review and match, Cine image review • Relative Portal Dosimetry Image and Integrated Image Acquisition • Matching of 2D radiographs to 3D reference images • Online addition of kV and MV imaging protocols to treatment fields, with automated generation of reference images • Online Physician Approval of Images at Treatment Console (compatible with ARIA only) • Automated Machine Performance Check Testing, Online Machine Performance Check Review • Offline Machine Performance Check Review • Image only sessions • Unplanned Treatment Mode up to 5 fractions • Fraction number displayed on in-room monitor • Match environment layout for 2D/2D and 2D/3D layouts default to the 2-panel • Custom DRR templates that are created in Eclipse will be available on the TrueBeam Platform • Online access to a marketing kit that contains a broad range of advertising, educational, promotional, and public relations materials targeted to referring physicians, patients, and the media • Electronic Dynamic Wedges (EDW) • Large field IMRT <p>Prerequisites:</p> <ul style="list-style-type: none"> • ARIA oncology information system for radiation oncology v15.1 through v17.0, or ARIA OIS v18.0 or higher, or compatible third-party oncology information system • Eclipse treatment planning system v15.1 or higher, or compatible third-party treatment planning system • If third-party OIS: <ul style="list-style-type: none"> • Authentication Server for third-party OIS (Hardware and Software) or • Authentication Server for third-party OIS (Software only) <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • Verify compatibility with third-party oncology information systems if applicable • Verify compatibility with third-party treatment planning systems if applicable • If using a scale other than IEC 60601 or IEC 61217 in the rest of the department, it may be necessary to change scales on all other machines. This may require additional purchases. <p>Notes:</p> <ul style="list-style-type: none"> • Multiple patient name in Japan market is applicable for Kanji, Kana and Romaji characters to identify the patient 	1
1.3	<p>Existing Baseframe 52" Fixed Floor</p> <p>Use of existing baseframe may require modification.</p>	1
1.4	<p>SuperFAST Installation - Existing Basefr</p> <p>Accelerated 12-day installation of TrueBeam®, TrueBeam STx, VitalBeam™, or Edge® on existing base frame with prior system rigging and network availability.</p> <p>Features:</p> <ul style="list-style-type: none"> • Completion of installation of all features required for commissioning readiness <p>Prerequisites:</p>	1

Item	Description	
	<ul style="list-style-type: none"> Recently ordered new system that has not yet been installed Eclipse™ Treatment Planning System 24/7 access to the facility All items on pre-installation checklist complete Customer agreement to scope of work <p>Notes:</p> <ul style="list-style-type: none"> Varian will complete installation to a minimum of beam, collimator, and MV imaging system readiness for commissioning activities. Varian will return within 30 days from completion of customer commissioning to complete installation and acceptance of all remaining items that were not required for system commissioning, including kV imaging, Rapid Arc, respiratory motion management system. This service does not include additional construction or commissioning support. 	
1.5	<p>IGRT Couch Top</p> <p>Image Guided RadioTherapy (IGRT) carbon fiber treatment couch top, free of metal or other radiation-opaque materials.</p> <p>Features:</p> <ul style="list-style-type: none"> Indexed Immobilization® for compatible accessories Couch top interface for mounting patient immobilization and quality assurance devices at the head of the couch Lock bar for indexed positioning of equipment or immobilization devices on the couch top Handrail for couch positioning, with hooks for temporary pendant placement during patient set up 	1
1.6	<p>SRS Encompass IMB IGRT Couchtop</p> <p>The SRS Encompass™ Immobilization package from Qfix™ is a dedicated SRS immobilization package specifically tailored for use with the IGRT couch top.</p> <p>Features:</p> <ul style="list-style-type: none"> Encompass Intracranial Standalone Device (quantity: 2) Encompass mask system (quantity: 10) Direct Indexing™ Adapter for Varian IGRT couch top (quantity: 1) Locating bar (quantity: 1) <p>Prerequisites:</p> <ul style="list-style-type: none"> IGRT couch top TrueBeam® v2.0 and higher VitalBeam® v2.5 (China only) and higher <p>Notes:</p> <ul style="list-style-type: none"> Training will be provided by Qfix 	1
1.7	<p>20 MeV, 0-1000 MU/Min</p> <p>25 cm x 25 cm maximum field size, dose rate range 0-1000 MU/Min.</p>	1
1.8	<p>PerfectPitch 6DoF Couch</p> <p>The PerfectPitch™ 6-Degrees of Freedom couch system</p> <p>Features:</p> <ul style="list-style-type: none"> Image-based 6DoF patient positioning <p>Prerequisites:</p> <ul style="list-style-type: none"> TrueBeam® v2.5 MR2 or higher ARIA® oncology information system v11.1 MR1 (11.0.55) and ARIA radiation therapy management v11 MR3 (11.0.47) or higher or compatible third-party oncology information system <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> Verify compatibility of third-party oncology information system 	1

Item	Description	
1.9	6/6 MV (BJR 11/17)	1
	40 cm x 40 cm maximum field size, dose rate range 0-600 MU/Min.	
1.10	10/10 MV (BJR 11/17)	1
	40 cm x 40 cm maximum field size, dose rate range 0-600 MU/Min.	
1.11	18/23 MV (BJR 11/17)	1
	40 cm x 40 cm maximum field size, dose rate range 0-600 MU/Min.	
1.12	6X High Intensity Mode	1
	40 cm x 40 cm maximum field size, dose rate range 400-1400 MU/Min in 200 MU/min steps.	
1.13	10X High Intensity Mode	1
	40 cm x 40 cm maximum field size, dose rate range 400-2400 MU/min in 400 MU/min steps.	
1.14	6 MeV, 0-1000 MU/Min	1
	25 cm x 25 cm maximum field size, dose rate range 0-1000 MU/Min.	
1.15	9 MeV, 0-1000 MU/Min	1
	25 cm x 25 cm maximum field size, dose rate range 0-1000 MU/Min.	
1.16	12 MeV, 0-1000 MU/Min	1
	25 cm x 25 cm maximum field size, dose rate range 0-1000 MU/Min.	
1.17	15 MeV, 0-1000 MU/Min	1
	25 cm x 25 cm maximum field size, dose rate range 0-1000 MU/Min.	
1.18	Delta Couch	1
	Delta Couch supports automated management of treatment plan-based shifts from initial set up mark to treatment isocenter. Features: <ul style="list-style-type: none">• Delta couch shift set-up Prerequisites: <ul style="list-style-type: none">• TrueBeam® v2.7 or higher• ARIA® oncology information system for radiation oncology v11.0 MR4.1 or higher, or compatible third-party oncology information system Customer Responsibilities: <ul style="list-style-type: none">• Verify compatibility with third-party oncology information systems if applicable	
1.19	HyperArc Treatment Delivery Capability	1
	Frameless, MLC-based technique for multiple intracranial SRS targets. Automated non-coplanar treatment delivery with integral intrafraction imaging at specified couch angles. Features: <ul style="list-style-type: none">• HyperArc™ Delivery License Prerequisites: <ul style="list-style-type: none">• TrueBeam™ or Edge® system v2.7 or higher• RapidArc® delivery license or Varian Volumetric Modulated Arc Therapy delivery license• PerfectPitch™ 6-Degrees of Freedom (6DoF) couch• Varian IGRT couch top or QFix kVue™ or kVue Calypso® couch top• Qfix™ Encompass™ SRS immobilization system for Qfix kVue™ or Qfix™ Encompass™ SRS immobilization system for kVue Calypso® or Qfix™ Encompass™ SRS immobilization system for IGRT couch top• Eclipse™ treatment planning system v15.5 or higher• HyperArc treatment planning license	

Item	Description	
	<ul style="list-style-type: none"> Eclipse RapidArc® planning license ARIA® oncology information system for radiation oncology v15.1 through v17.0, or ARIA OIS v18.0 or higher, or compatible third-party oncology information system <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> TrueBeam/Edge system needs to pass isocenter test that is performed by Varian installation/local service team. Use of external devices connected to Motion Management or ADI interfaces with HyperArc are not validated or supported by Varian. Verify compatibility with third-party oncology information systems if applicable <p>Notes:</p> <ul style="list-style-type: none"> It is recommended that the patient CT scan used for treatment planning be acquired at a slice thickness of 1.25 mm or better 	
1.20	<p>RapidArc Treatment Delivery</p> <p>RapidArc® Treatment Delivery is a volumetric modulated arc treatment delivery technique.</p> <p>Features:</p> <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 <p>Prerequisites:</p> <ul style="list-style-type: none"> 120 Multi Leaf Collimator or HD120™ Multi Leaf Collimator Eclipse™ treatment planning system v11.0 or higher RapidArc treatment planning license Compatible server hardware and operating system. For detailed specifications, visit: www.varian.com/hardwarespecs 	1
1.21	<p>kV Imaging System</p> <p>kV Imaging system, providing 2D radiographic and fluoroscopic and 3D CBCT imaging capability</p> <p>Features:</p> <ul style="list-style-type: none"> kV CBCT image acquisition, review, and match to 3D reference image Radiographic image acquisition, with 2D/2D and 2D/3D image matching to reference image Fluoroscopic image acquisition, with structure overlay on fluoroscopic images. kV CBCT image acquisition with a long field of view, provided by merging multiple indexed CBCT images online. <p>Prerequisites:</p> <ul style="list-style-type: none"> ARIA oncology information system for radiation oncology v15.1 through v17.0, or ARIA OIS v18.0 or higher, or compatible third-party oncology information system TrueBeam Platform v3.0 or higher <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> Verify compatibility with third-party oncology information systems if applicable 	1
1.22	<p>Low-X Imaging Energy</p> <p>Low-X imaging energy configuration, providing high soft tissue contrast when imaging in-line with the treatment beam.</p>	1
1.23	<p>Triggered Imaging</p> <p>Automated intrafraction 2D kV radiographic imaging, with images triggered by respiration phase or amplitude, gantry angle, time period, or MU. Automated image-based beam hold on fiducial markers, based on user-defined marker motion thresholds.</p> <p>Features:</p> <ul style="list-style-type: none"> Respiration Triggered Imaging MU Triggered Imaging Gantry Triggered Imaging Time Triggered Imaging Autobeam Hold <p>Prerequisites:</p> <ul style="list-style-type: none"> Respiratory Motion Management System 	1

Item	Description	
1.24	<p>4D CBCT Accelerated Reconstruction</p> <p>License and hardware package for 4D CBCT accelerated reconstruction.</p> <p>Features:</p> <ul style="list-style-type: none"> • 4D Accelerated Reconstruction License • 4D CBCT Imaging Package <p>Prerequisites:</p> <ul style="list-style-type: none"> • TrueBeam Platform v3.0 • kV Imaging System • Basic Respiratory Motion Management or Advanced Respiratory Motion Management System 	1
1.25	<p>Gated CBCT</p> <p>Gated Cone-Beam Computed Tomography (CBCT) provides the ability to acquire CBCT images synchronized with patient respiration (free-breathing or breath hold).</p> <p>Features:</p> <ul style="list-style-type: none"> • Gated CBCT Imaging License • Short Arc CBCT Imaging License: CBCT image acquisition using a 120-150-degree arc, image review, and image match to respiratory gated reference image. Short arc CBCT can be used for single breath hold CBCT data acquisition. <p>Prerequisites:</p> <ul style="list-style-type: none"> • TrueBeam®, VitalBeam, or Edge v2.7 or higher • One of the following: <ul style="list-style-type: none"> • Advanced Respiratory Motion Management System • Basic Respiratory Motion Management System • kV Imaging System 	1
1.26	<p>Iterative CBCT</p> <p>Iterative CBCT provides improved detectability of stationary soft tissue anatomy.</p> <p>Features:</p> <ul style="list-style-type: none"> • Iterative CBCT license • Reconstruction computer with GPU hardware <p>Prerequisites:</p> <ul style="list-style-type: none"> • TrueBeam® Platform v2.7 MR3 or higher • kV Imager • kV CBCT imaging license 	1
1.27	<p>Additional MotionView CCTV Camera System</p> <p>Additional set of two Motion View CCTV cameras and displays. Camera placement is at customer discretion.</p> <p>Features:</p> <ul style="list-style-type: none"> • Two pan, tilt, zoom CCTV cameras • Two desktopLCD displays with built in camera controls • Adjustable viewing angle for patient privacy • Push button pan, tilt, zoom, and home position control <p>Prerequisites:</p> <ul style="list-style-type: none"> • Motion View camera system, provided with linac system. 	1
1.28	<p>Advanced Resp Motion Management System</p> <p>Advanced Respiratory Motion Management System is a stereoscopic optical system for managing patient respiration motion during treatment delivery and imaging.</p> <p>Features:</p> <ul style="list-style-type: none"> • Stereoscopic optical imager, including marker block for tracking patient respiration motion • Respiratory gated treatment delivery • Respiratory gated MV image acquisition and online review, respiration synchronized cine image acquisition and online review • Respiratory gated kV image acquisition and online review, respiration synchronized fluoroscopic image acquisition and online review <p>Prerequisites:</p> <ul style="list-style-type: none"> • TrueBeam®, VitalBeam, or Edge v2.7 and higher 	1

Item	Description	
	<ul style="list-style-type: none"> • kV Imaging System 	
1.29	<p>VCD Option, couch mounted</p> <p>Couch-mounted display system provides visual feedback to the patient for respiration stabilization or breath hold position during respiratory gated image acquisition or treatment delivery.</p> <p>Features:</p> <ul style="list-style-type: none"> • 2 rechargeable batteries and charging system • Video interface for optional use of customer-provided video goggles • Wireless display system with adjustable count mount <p>Prerequisites:</p> <ul style="list-style-type: none"> • TrueBeam® v2.7 or higher • One of the following: <ul style="list-style-type: none"> • Advanced Respiratory Motion Management System • Basic Respiratory Motion Management System • Respiratory Motion Management System • Optical Imager 	1
1.30	<p>VCD w/Couch Mount - IGRT</p>	1
1.31	<p>CatPhan Phantom</p> <p>Phantom for measuring CBCT image contrast, spatial resolution, and uniformity.</p> <p>Features:</p> <ul style="list-style-type: none"> • Modules for measuring CBCT image contrast, spatial resolution, and uniformity <p>Prerequisites:</p> <ul style="list-style-type: none"> • kV Imaging system with CBCT 	1
1.32	<p>Supp. Phantom Kit</p> <p>Supplemental imaging phantom kit for measuring resolution and contrast of kV and MV imaging systems.</p> <p>Features:</p> <ul style="list-style-type: none"> • Leeds TOR 18FG phantom for measuring spatial resolution and contrast of kV imaging system • MV contrast phantom for measuring contrast performance of MV imaging system • Geometric phantom, mounted on IGRT couch top-compatible lock bar. Can be used for quality assurance of image guidance workflow. <p>Prerequisites:</p> <ul style="list-style-type: none"> • MV imaging system 	1
1.33	<p>Power Cond., 3phase 50KVA</p> <p>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.</p>	1

Item	Description	
	<p>Notes:</p> <ul style="list-style-type: none"> Supports voltage configurations from 208 to 600 VAC and in 50 or 60 Hz for US and ROW applications. 	
1.34	<p>Main Circuit Breaker Panel</p> <p>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.</p>	1
1.35	<p>Filtrine Water Chiller</p> <p>A closed loop water cooling system, providing clean water at a constant flow, pressure, and temperature for cooling a high energy medical linear accelerator. Ideal for sites where a dependable source of clean water for cooling is not available.</p>	1
1.36	<p>Filtrine Quick Connect Panel</p> <p>See Filtrine Specification sheet for details</p>	1
1.37	<p>NLS: English</p>	1
1.38	<p>STD TRNG: TB Platform On-Site</p> <p>The on-site review of the TrueBeam/Edge/VitalBeam components includes imaging and use cases for support of patient treatment for therapists. This support is to ensure that personnel who attended the classroom training are able to operate the TrueBeam Platform machine in a safe and effective manner in the clinical environment.</p> <p>Features:</p> <ul style="list-style-type: none"> Includes support for TrueBeam/Edge/VitalBeam Offer is valid for 18 months after installation of product <p>Prerequisites:</p> <ul style="list-style-type: none"> TrueBeam Platform classroom trainings <p>Notes:</p> <ul style="list-style-type: none"> Training is non-refundable and non-transferable 	1
1.39	<p>STD TRNG: Two Day Follow Up</p> <p>Two Day Follow Up Training. This follow up training is conducted after the initial training has been completed to ensure safe and efficient use of the product.</p> <p>Features:</p> <ul style="list-style-type: none"> Training plan details will be provided by the training management team as part of your product implementation process Duration and Location: 2 days onsite <p>Prerequisites:</p> <ul style="list-style-type: none"> Initial product training completed <p>Notes:</p> <ul style="list-style-type: none"> Offer is valid for up to 18 months after installation of product Non-transferable to other products and services and non-refundable 	1
1.40	<p>INCL ED: TB201 TB Platform Physicists</p> <p>TrueBeam Physics and Administration: TrueBeam Physics and Administration course is designed for personnel (primarily Medical Physicists) responsible for the acceptance, commissioning, and QA program development of the TrueBeam in the clinical environment. 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, and QA of the machine are included. The course subject matter is presented from a clinical use perspective. Primary emphasis is on the overall commissioning, calibration, and QA of the TrueBeam and its components. Extensive hands-on laboratory exercises are included.</p>	1

Item	Description	
	<p>Features:</p> <ul style="list-style-type: none"> • Includes support for TrueBeam/Edge/VitalBeam • Includes Tuition and Materials for ONE person • Length: 4.5 days • Offer is valid for 18 months after installation of product <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals) <p>Notes:</p> <ul style="list-style-type: none"> • Training is non-refundable and non-transferable 	
1.41	<p>INCL ED: TB101 TB Platform Operations</p> <p>TrueBeam Operations is a course designed for personnel (primarily Radiation Therapists) responsible for the routine operation and clinical use of the TrueBeam. It is recommended that students attend the TrueBeam Operations course shortly before clinical use and the commencement of patient treatments. 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. 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>Features:</p> <ul style="list-style-type: none"> • Includes support for TrueBeam/Edge/VitalBeam • Includes Tuition and Materials for ONE person • Length: 4 days • Offer is valid for 18 months after installation of product <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals) <p>Notes:</p> <ul style="list-style-type: none"> • Training is non-refundable and non-transferable 	1
1.42	<p>INCL ED: CL222 Respiratory Gating</p> <p>The Respiratory Gating course provides training for physicists and therapists, to obtain knowledge of principles and practices of respiratory gating in radiation oncology for clinical implementation.</p> <p>Features:</p> <ul style="list-style-type: none"> • Includes support for TrueBeam Platform • Includes Tuition and Materials for ONE person • Length: 2 days • Offer is valid for 18 months after installation of product <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals) <p>Notes:</p> <ul style="list-style-type: none"> • Training is non-refundable and non-transferable 	1
1.43	<p>Motion Management Interface</p> <p>Motion management interface is an integrated interface for validated external devices that provide patient positioning, patient and target motion monitoring, and/or respiratory gating. The Motion management interface supports connection of up to four external devices, two of which may be used for respiratory motion management or high speed beam hold.</p> <p>Features:</p> <ul style="list-style-type: none"> • 4-DoF or 6-DoF patient positioning capability for compatible validated devices and couch configurations 	1

Item	Description	
	<ul style="list-style-type: none"> Integrated external device beam hold and image-based patient repositioning workflow Patient-specific external device activation and patient plan verification 	
1.44	<p>INCL ED: UPMC TrueBeam Clinical School</p> <p>The SRS/SABR clinical school covers Stereotactic Radiosurgery and/or Stereotactic Ablative Radiotherapy (also known as SBRT - Stereotactic Body Radiotherapy) for radiosurgical ablative treatment of intracranial as well as extracranial tumors and/or lesions. This multidisciplinary course is modeled after the mock tumor board method that involves multiple surgical disciplines, radiation oncologists and physicists from UPMC. Each course will be tailored to the surgical discipline(s) in attendance and will utilize both lectures and a hands-on lab environment. This course is designed for surgeons (neurosurgeons, thoracic surgeons, head & neck surgeons), radiation oncologists and medical physicists.</p> <p>Features:</p> <ul style="list-style-type: none"> Topics covered include: <ul style="list-style-type: none"> SRS clinical considerations and patient immobilization 4DCT and pre-treatment QA of SRS Hands-on lab session for both dosimetric QA of SRS plans and the pre-treatment QA Students will have the opportunity to observe 1 to 2 clinical SRS/SRT cases, including immobilization, imaging, treatment planning, pre-treatment QA and treatment delivery Review of the following types of tumors include: <ul style="list-style-type: none"> Brain lesions & targets including primary benign & malignant tumors, metastatic tumors from extracranial sites, and non-cancerous targets such as arteriovenous malformations & trigeminal neuralgia Head & neck tumors such as squamous cell tumors and glomus tumors. Spine tumors such as metastatic lesions to vertebral bodies and primary spine tumors Thoracic lesions that are primarily non-small cell lung cancer and cancers of the mediastinum Upper and lower GI lesions including pancreas, primary and metastatic liver, adrenals and lymph nodes Duration and Location: 3 days at UPMC Cancer Center in Shadyside, Pennsylvania <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> All travel expenses (airfare, hotel, rental car, meals and travel incidentals) <p>Notes:</p> <ul style="list-style-type: none"> Offer is valid for up to 18 months after installation of product Non-transferable to other products and services and non-refundable Includes tuition and materials for ONE person If the clinical school is not available, Varian will make all reasonable efforts to find a suitable replacement This course is offered and exclusively controlled by UPMC; Varian is not responsible for and has not reviewed the course topic, content or materials. The student will be required to sign an agreement that disclaims all liability for Varian with respect to the content and training Continuing Education Accreditation -Not Eligible 	3
1.45	<p>Vertical LAP Apollo Green Room Laser Kit</p> <p>LAP Apollo Green Room Laser Kit for patient alignment with Vertical Remote-Controlled Sagittal Line Laser.</p> <p>Features:</p> <ul style="list-style-type: none"> 1 Apollo Green Remote-controlled Ceiling Crosshair Laser 2 Apollo Green Remote-controlled Lateral Crosshair Lasers 1 Apollo Green Vertical Remote-Controlled Sagittal Line Laser 	1
2.0 Mobius Patient QA		
2.1	Primary Linac, Varian TB Plat	1
2.2	<p>STD TRNG: Mobius Remote Training</p> <p>Standard remote training for Mobius3D® for new customers.</p> <p>Features:</p> <ul style="list-style-type: none"> Question and answer session to review information learned in the VarianThink e-learning course Training Type and Location: One remote training session <p>Prerequisites:</p> <ul style="list-style-type: none"> Mobius3D license installed and accepted <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> Remote access to the customer Mobius3D software required All videos are viewed before the remote session 	1

Item	Description	
	<p>Notes:</p> <ul style="list-style-type: none"> • Remote session should be scheduled within 30 days of completing the video learning modules • Offer is valid for up to 18 months after installation of product • Non-transferable to other products and services and non-refundable 	
2.3	<p>INCL VT: Mobius VarianThink</p> <p>This Mobius3D® VarianThink online course is designed to provide the staff knowledge and understanding required to effectively commission and use the Mobius3D software. Intended audience includes medical physicists.</p> <p>Features:</p> <ul style="list-style-type: none"> • Review of Mobius3D software • Review of commissioning • Training Type: e-learning modules via the VarianThink™ online platform <p>Prerequisites:</p> <ul style="list-style-type: none"> • Basic knowledge of computers and the Windows operating system • Must have a medical physicist education <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • Must have a computer or device with internet access to view online content <p>Notes:</p> <ul style="list-style-type: none"> • Offer is valid for up to 18 months after installation of product • Access to course content is valid for up to 90 days from initial access of the course on the VarianThink™ online platform • Non-transferable to other users, products, and services and non-refundable 	1
2.4	<p>MOBIUS3D v4.0</p>	1
2.5	<p>Mobius3D Patient QA PKG, 1st Linac</p> <p>Mobius3D® patient-specific quality assurance (QA) software platform and supplementary Mobius Verification Phantom (MVP).</p> <p>Features:</p> <ul style="list-style-type: none"> • One (1) Mobius3D Patient QA MobiusCalc License for one (1) physical linear accelerator <ul style="list-style-type: none"> • Patient treatment plan dose verification • One (1) Mobius3D Patient QA MobiusFX License for one (1) physical linear accelerator <ul style="list-style-type: none"> • Patient treatment delivery verification • One (1) Mobius3D Patient QA MobiusCB License for one (1) physical linear accelerator <ul style="list-style-type: none"> • Patient cone-beam CT verification • One (1) Mobius Verification Phantom (MVP) <ul style="list-style-type: none"> • Phantom for patient-specific QA measurements <p>Prerequisites:</p> <ul style="list-style-type: none"> • Varian C Series, Trilogy Tx™, Novalis Tx™, TrueBeam®, VitalBeam™, Edge®, TrueBeam STx®, Halcyon™, or any compatible third-party linear accelerator • Mobius3D Patient QA Standard server or Mega server • Eclipse™ treatment planning system, or third-party treatment planning system capable of DICOM-RT export • ARIA® oncology information system for radiation oncology or any compatible third-party oncology information system <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • Network configuration of Mobius3D Patient QA Standard server or Mega server • Configuration of shared network folders for automatic processing • Validation testing of dose calculation and beam modeling • Configuration of patient CBCT exports from third-party oncology information systems • Verify compatibility with third-party linear accelerators, treatment planning systems, and oncology information systems • Supported ionization chamber 	1
2.6	<p>Mobius3D Patient QA Mega Server</p> <p>The Mobius3D® patient-specific quality assurance (QA) mega server supports the operation of all Mobius3D modules (MobiusCalc, MobiusFX, MobiusCB)</p> <p>Features:</p> <ul style="list-style-type: none"> • 2U Rack mount server • (4) 8-TB Hard disk drives in RAID 10 configuration • Redundant power supply • Dell iDRAC 	1

Item	Description
	<ul style="list-style-type: none"> • Ubuntu operating system • CouchDB database • ClamAV antivirus • Apache HTTP webserver with HTTPS support • At-rest patient data encryption <p>Prerequisites:</p> <ul style="list-style-type: none"> • Mobius3D v3.1 or higher • Trilogy Tx™, Novalis Tx™, TrueBeam®, TrueBeam STx®, VitalBeam™, Edge®, Halcyon™, or compatible third-party linear accelerator <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • Network speed: 100 Mbps required, 1 Gbps recommended • Data archive, or records of quality assurance must be retained elsewhere as per the local regulatory requirements • Verify compatibility with third-party linear accelerator <p>Notes:</p> <ul style="list-style-type: none"> • Maximum capacity when using the MobiusCalc module only: Twenty-five (25) linear accelerators • Maximum capacity when using all Mobius3D modules (MobiusCalc, MobiusFX, MobiusCB): Fifteen (15) linear accelerators

3.0 DoseLab Patient QA + Phantoms

3.1 DoseLab Machine QA SW, Perpetual 1

DoseLab® software provides a suite of tools for linear accelerator quality assurance (QA) analysis, a linear accelerator QA database, and film dosimetry.

Features:

- Built-in modules for linear accelerator QA
 - MV/kV image analysis
 - Flatness/Symmetry and Radiation Field/Light Field Coincidence
 - Depth Dose
 - Starshot
 - MLC Strip Test
 - Winston-Lutz (2D and 3D)
 - VMAT/Dynamic MLC
 - CT/CBCT image analysis
 - FractionLab log file analysis
- AutoQA module for automatic analysis of QA images
- Integrated machine QA database
 - Trend analysis
- Film Dosimetry
 - Uniformity correction
 - Manual and EDW film calibrations
- Dose Comparison Interface

Prerequisites:

- Varian C Series, Trilogy Tx™, Novalis Tx™, TrueBeam®, VitalBeam™, Edge®, TrueBeam STx®, Halcyon™, Ethos™, or any compatible third-party linear accelerator

Customer Responsibilities:

- Verify third-party linear accelerator compatibility
- Client computer with Windows XP or later, Microsoft Excel, 32-bit video card, 1024 x 768 minimum display, 2GB RAM, and 1GB hard drive space

3.2 SRS End-to-End Phantom 1

None

Features:

- One (1) anthropomorphic phantom shell
 - Holds the exchangeable inserts
 - Laser markings
 - Anthropomorphic design for patient workflow simulation
- One (1) insert base
 - Attaches the individual phantom inserts to the shell
- Four (4) phantom inserts
 - One (1) CT/MR imaging insert
 - One (1) film-capable dosimetry insert
 - One (1) embedded BB mechanical insert

Item	Description	
	<ul style="list-style-type: none"> One (1) ion chamber dosimetry insert [choice of one (1) of: Exradin A16, CC01, PTW 31014, PTW 31015] One (1) ion chamber plug <ul style="list-style-type: none"> Fits into the ion chamber dosimetry insert and matches the choice of the ion chamber insert One (1) assembly tray One (1) travel case <ul style="list-style-type: none"> Holds the phantom shell and all peripherals One (1) set of radiochromic film <ul style="list-style-type: none"> Custom-cut film set to fit into film insert <p>Prerequisites:</p> <ul style="list-style-type: none"> Varian Edge™, TrueBeam™, VitalBeam™, Clinac®, Halcyon™ or Ethos™ or compatible third-party linear accelerator Eclipse™ treatment planning system, or third-party treatment planning system capable of DICOM-RT export ARIA® oncology information system for radiation oncology or any compatible third-party oncology information system <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> Valid ion chamber Film scanner Verify compatibility of third-party linear accelerator Verify compatibility of third-party treatment planning system Verify compatibility of third-party oncology information system 	
3.3	<p>DoseLab Machine QA Phantom PKG</p> <p>DoseLab® Phantom Package provides a suite of phantoms designed for linear accelerator quality assurance (QA) tests.</p> <p>Features:</p> <ul style="list-style-type: none"> MC2 Phantom <ul style="list-style-type: none"> Used for MV/kV image analysis RLf Phantom <ul style="list-style-type: none"> Used for Flatness/Symmetry tests and Radiation Field/Light Field coincidence tests WL³ Phantom <ul style="list-style-type: none"> Used to verify isocentric accuracy via the Winston-Lutz test 	1
3.4	<p>INCL VT: Doselab VarianThink</p> <p>This DoseLab® VarianThink online course is designed to provide the staff knowledge and understanding required to effectively commission and use the DoseLab software. Intended audience includes medical physicists.</p> <p>Features:</p> <ul style="list-style-type: none"> Review of DoseLab software Review of Doselab phantoms Training Type: e-learning modules via the VarianThink™ online platform <p>Prerequisites:</p> <ul style="list-style-type: none"> Basic knowledge of computers and the Windows operating system Must have a medical physicist education <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> Must have a computer or device with internet access to view online content <p>Notes:</p> <ul style="list-style-type: none"> Offer is valid for up to 18 months after installation of product Access to course content is valid for up to 90 days from initial access of the course on the VarianThink™ online platform Non-transferable to other users, products, and services and non-refundable 	1
3.5	<p>STD TRNG: Doselab Remote Training</p> <p>Standard remote training for DoseLab® for new customers.</p> <p>Features:</p>	1

Item	Description	
	<ul style="list-style-type: none"> • Question and answer session to review information learned in the VarianThink e-learning course • Training Type and Location: One remote training session <p>Prerequisites:</p> <ul style="list-style-type: none"> • DoseLab installed and accepted <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • Remote access to the customer DoseLab software required • All videos are viewed before the remote session <p>Notes:</p> <ul style="list-style-type: none"> • Remote session should be scheduled within 30 days of completing the video learning modules • Offer is valid for up to 18 months after installation of product • Non-transferable to other products and services and non-refundable 	
4.0	Velocity with 2 concurrent licenses	
4.1	<p>Velocity 2 User GRID</p> <p>The Velocity™ Grid-2 Concurrent User Grid includes the Grid software license and two (2) concurrent user Velocity software licenses. This package allows for two users in a department to simultaneously perform Velocity functions with all data being stored centrally on the Velocity Grid server.</p> <p>Features:</p> <ul style="list-style-type: none"> • Velocity GRID Server includes features for data storage and archiving data (including DICOM and non DICOM). • The server features include: <ul style="list-style-type: none"> • Store both DICOM and non-DICOM data in Velocity GRID • DICOM Auto-Importer automatically parses and associate data • Query-Retrieve Engine can pull data from other DICOM locations (C-FIND, C-MOVE, C-STORE) • Auto-Import CDs or other file data from workstations • Velocity GRID uses centralized encrypted data store • Velocity Concurrent User License(s) include the following client features: <ul style="list-style-type: none"> • Multi-modality deformable image registration - Advanced contouring tools • RT plan review • Dose tracking and accumulation • 4D tools • Response assessment workflows • License(s): <ul style="list-style-type: none"> • One (1) GRID Software Server License that runs on a Windows server hardware and software. GRID server has a central database for storing data and a licensing manager for regulating the number of concurrent users logged into the GRID. GRID Software also provides Oncology PACS features for storing, sharing, and moving data around the oncology department. • Two (2) Concurrent User Licenses to be actively logged into the GRID server using Velocity functionality on any workstation in the department that has access to the GRID server and meets minimum specifications for Velocity hardware requirements. <p>Prerequisites:</p> <ul style="list-style-type: none"> • Dedicated Server that meets minimum hardware requirements as per https://www.myvarian.com. <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • A properly networked environment (for detailed information on network requirements, refer to the Oncology Systems Network Configuration Guidelines at https://www.myvarian.com) <p>Notes:</p> <ul style="list-style-type: none"> • No hardware included. 	1
4.2	<p>STD TRNG: VELOCITY</p> <p>Training is included with the purchase of Velocity. Training plan details will be provided by the training management team as part of your product implementation process.</p> <ul style="list-style-type: none"> • Offer is valid for 18 months after installation. Training is not transferable with other products and services 	1

5.0	Eclipse Expansion
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5.1	<p>RapidPlan™ Knowledge Based Planning Core</p> <p>RapidPlan™ Knowledge-Based Planning Core Software leverages a machine learning approach and provides Dose Volume Histogram (DVH) estimation models for various disease sites.</p> <p>Features:</p> <ul style="list-style-type: none"> • RapidPlan interface for one (1) user • DVH estimation models from Varian • Model Configuration interface for user defined DVH estimation models <p>Prerequisites:</p>	1
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Item	Description	
	<ul style="list-style-type: none"> Interactive IMRT Planning 	
5.2	<p>Multi-Criteria Optimization (MCO)</p> <p>Eclipse™ MCO is a decision support tool incorporated within the existing IMRT or VMAT optimization workflow. MCO allows the end user to explore the impact that changing dose to a specific structure has on plan quality, target coverage, or organ at risk sparing.</p> <p>Features:</p> <ul style="list-style-type: none"> MCO license for one user <p>Prerequisites:</p> <ul style="list-style-type: none"> IMRT or VMAT planning license One of the following hardware configurations <ul style="list-style-type: none"> A GPU (Graphics Processing Unit) enabled Eclipse calculation workstation or An Eclipse Framework agent server (FAS) 	1
5.3	<p>Acuros External Beam</p> <p>Acuros® External Beam (Acuros XB) is a photon algorithm that provides dose calculation with the equivalent accuracy as the Monte Carlo algorithm.</p> <p>Features:</p> <ul style="list-style-type: none"> Acuros XB algorithm <p>Prerequisites:</p> <ul style="list-style-type: none"> Eclipse Planner Desktop or Eclipse Advanced Planner Desktop 	1
5.4	<p>HyperArc Planning</p> <p>Eclipse external beam planning for frameless, MLC-based delivery technique for single or multiple intracranial SRS targets in support of HyperArc™ delivery.</p> <p>Features:</p> <ul style="list-style-type: none"> HyperArc™ Planning License for one user <p>Prerequisites:</p> <ul style="list-style-type: none"> HyperArc delivery license TrueBeam® or EDGE™ system software v2.7 or higher Eclipse RapidArc Planning License 	1
5.5	<p>STD TRNG: MCO-Remote</p> <p>Standard Training for Multi-Criteria Optimization (also known as Trade-off Analysis). Intended audience includes physicists, dosimetrist/treatment planners and other staff as appropriate.</p> <p>Features:</p> <ul style="list-style-type: none"> Training Plan details will be provided by the training management team as part of your product implementation process. Topics covered can include: <ul style="list-style-type: none"> Workflow Plan Generation Trade off exploration Duration and Location: 2 hour remote session <p>Prerequisites:</p> <ul style="list-style-type: none"> Multi-Criteria Optimizatin installed <p>Notes:</p> <ul style="list-style-type: none"> Offer is valid for up to 18 months after installation of product Non-transferable to other products and services and non-refundable 	1
5.6	<p>INCL ED: RP201 RapidPlan Implementation</p>	1

Item	Description	
	<p>The RapidPlan® knowledge-based planning Implementation course enables participants to implement RapidPlan and make it part of the clinical routine. The training is designed to enable users to be competent and confident in using RapidPlan functionality within the Eclipse™ treatment planning system. Users will be provided the knowledge to help them gain mastery of knowledge-based planning concepts as well as experience using and creating DVH estimation models, including the ability to verify and validate models. Users will learn and practice strategies for leveraging Varian-provided and other shared models for a quick ramp-up with RapidPlan.</p> <p>Features:</p> <ul style="list-style-type: none"> Topics covered include: <ul style="list-style-type: none"> Introduction to RapidPlan Applying RapidPlan models Model configuration workspace Varian models and validation process Creating a prostate and head-neck models Training Type: Virtual Instructor-Led Training (VILT). Additional course information will be provided at registration <p>Prerequisites:</p> <ul style="list-style-type: none"> Eclipse™ treatment planning system installed and accepted Eclipse v13.6 or above Completion of Varian education courses EC101 and EC102 Access to Model Analytics <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> Must have access to a telephone and computer with an internet connection <p>Notes:</p> <ul style="list-style-type: none"> Includes tuition and materials for one person Offer is valid for up to 18 months after installation of product Non-transferable to other users, products, and services and non-refundable 	
5.7	<p>STD TRNG: RapidPlan Onsite</p> <p>Standard Onsite Training for RapidPlan™ knowledge-based planning. Customers will be trained in the process of validating and modifying shared RapidPlan models for their clinical Practice.</p> <p>Features:</p> <ul style="list-style-type: none"> Topics include: <ul style="list-style-type: none"> Creating custom models Process of verifying and validating models Training plan details will be provided by the training management team as part of your product implementation process Duration and Location: 2 days onsite <p>Prerequisites:</p> <ul style="list-style-type: none"> RapidPlan™ installed and accepted <p>Notes:</p> <ul style="list-style-type: none"> Offer is valid for up to 18 months after installation of product Non-transferable to other products and services and non-refundable 	1
5.8	<p>Non-Clinical Multi-Criteria Optimization</p> <p>Eclipse™ MCO is a decision support tool incorporated within the existing IMRT or VMAT optimization workflow. Trade-off exploration with MCO allows the end user to explore the impact that changing dose to a specific structure has on plan quality, target coverage, or organ at risk sparing.</p> <p>Features:</p> <ul style="list-style-type: none"> MCO license for one (1) user <p>Prerequisites:</p> <ul style="list-style-type: none"> Eclipse T-Box Software Package or Eclipse Educational/Research SFW Package Non-Clinical RapidArc Planning Workstation graphics processing unit (GPU) algorithm license or a framework agent server graphics processing unit (GPU) algorithm license 	1
5.9	<p>Non-Clinical RapidPlan</p> <p>Non-Clinical RapidPlan™ Knowledge-Based Planning Software leverages a machine learning approach and provides Dose Volume Histogram (DVH) estimation models for various disease sites.</p> <p>Features:</p> <ul style="list-style-type: none"> Non-Clinical RapidPlan interface for one (1) user Non-Clinical DVH estimation models from Varian Non-Clinical Model Configuration interface for user defined DVH estimation models <p>Prerequisites:</p>	1

Item	Description	
	<ul style="list-style-type: none"> Eclipse T-Box Software Package or Eclipse Educational/Research SFW Package 	
5.10	<p>Non-Clinical Acuros External Beam</p> <p>Acuros® External Beam (Acuros XB) is a photon algorithm that provides dose calculation with the equivalent accuracy as the Monte Carlo algorithm.</p> <p>Features:</p> <ul style="list-style-type: none"> Non-Clinical Acuros XB algorithm <p>Prerequisites:</p> <ul style="list-style-type: none"> Non-Clinical T-Box Software Package or Non-Clinical Educational/Research Software Package <p>Notes:</p> <ul style="list-style-type: none"> GPU dose calculation support 	1
5.11	<p>STD TRNG: HyperArc Consultant Suprt</p> <p>Standard Training HyperArc™ Consultant Support</p> <p>Features:</p> <ul style="list-style-type: none"> Consultant will provide clinical support to establish a Stereotactic Radiosurgery (SRS) Program at customer site. The consultant will cover the necessary workflow for the following: <ul style="list-style-type: none"> patient selection positioning and imaging treatment planning dose prescriptions and organ at risk sparing quality assurance treatment imaging and delivery patient follow up Duration and Location: 2 days at customer site plus 4 hours of remote support <p>Prerequisites:</p> <ul style="list-style-type: none"> HyperArc v15.5 or higher installed Truebeam v2.7 or higher installed <p>Notes:</p> <ul style="list-style-type: none"> Offer is valid for up to 18 months after installation of product Non-transferable to other products and services and non-refundable This entitled training is for up to 3 users. The intended audience includes physicists, physicians, dosimetrists, treatment planners and other staff as appropriate 	1
5.12	<p>STD TRNG: HyperArc- Onsite</p> <p>Standard Training for HyperArc™ Planning. Intended audience includes physicists, dosimetrist/treatment planners and other staff as appropriate.</p> <p>Features:</p> <ul style="list-style-type: none"> Training Plan details will be provided by the training management team as part of your product implementation process. Topics covered can include: <ul style="list-style-type: none"> Workflow treatment planning from CT protocol Plan generation Fixation device Optimization Plan preparation for imaging and treatment Duration and Location: 1 day at customer site <p>Prerequisites:</p> <ul style="list-style-type: none"> HyperArc installed <p>Notes:</p> <ul style="list-style-type: none"> This entitled training is for up to 3 users Offer is valid for up to 18 months after installation of product Non-transferable to other products and services and non-refundable 	1
5.13	<p>STD TRNG: HyperArc Follow Up Trng</p> <p>Standard Training HyperArc™ Follow Up Training Onsite</p> <p>Features:</p> <ul style="list-style-type: none"> Applications trainer will provide on-site follow up visit to answer questions related to use of the system Duration and Location: 1 day at customer site <p>Prerequisites:</p> <ul style="list-style-type: none"> Customer must have already treated patients using the HyperArc system Customer must have completed the HyperArc Consultant Support standard training <p>Notes:</p>	1

Item	Description	
	<ul style="list-style-type: none"> • Offer is valid for up to 18 months after installation of product • Non-transferable to other products and services and non-refundable • This entitled training is for up to 3 users. The intended audience includes physicists, physicians, dosimetrists, treatment planners and other staff as appropriate • This training will optimally occur approximately 4 weeks after HyperArc go live. 	
5.14	<p>Non-Clinical HyperArc</p> <p>Eclipse™ external beam planning for frameless, MLC-based delivery technique for single or multiple intracranial SRS targets in support of HyperArc™ delivery.</p> <p>Features:</p> <ul style="list-style-type: none"> • Non-Clinical HyperArc Planning License for one (1) user <p>Prerequisites:</p> <ul style="list-style-type: none"> • Eclipse T-Box Software Package or Eclipse Educational/Research SFW Package • Non-Clinical RapidArc Planning 	1
5.15	<p>STD TRNG: MCO- Onsite</p> <p>Standard Training for Multi-Criteria Optimization (also known as Trade-off Analysis). Intended audience includes physicists, dosimetrist/treatment planners and other staff as appropriate..</p> <p>Features:</p> <ul style="list-style-type: none"> • Training Plan details will be provided by the training management team as part of your product implementation process. Topics covered can include: <ul style="list-style-type: none"> • Workflow • Plan Generation • Trade off exploration • Duration and Location:1 day at customer site <p>Prerequisites:</p> <ul style="list-style-type: none"> • Multi-Criteria Optimizatin installed <p>Notes:</p> <ul style="list-style-type: none"> • Offer is valid for up to 18 months after installation of product • Non-transferable to other products and services and non-refundable 	1
5.16	<p>STD TRNG: Remote Training</p> <p>Standard remote training</p> <p>Features:</p> <ul style="list-style-type: none"> • Customized training plan details will be provided by the training management team after the initial discussion of customer needs • Training Type and Location: One remote training session up to 2 (two) hours with a clinical applications specialist <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • Remote access to the customer software may be required • Review all product documentation available on MyVarian.com in advance <ul style="list-style-type: none"> • Customer Release Notes • Instruction for Use • Must have access to a phone and computer with internet connection <p>Notes:</p> <ul style="list-style-type: none"> • Remote session should be scheduled within 30 (thirty) days of completing any applicable video learning modules • Offer is valid for up to 18 months after purchase • Non-transferable to other users, products, and services and non-refundable 	1
5.17	<p>INCL VT: HP101 HyperArc TPD VarianThink</p>	1

Item	Description
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This HyperArc Treatment Planning and Delivery VarianThink course is designed to provide the staff knowledge and understanding required to effectively commission and use the HyperArc software.

Features:

- Topics covered include:
 - Review of the software
 - Encompass Device
 - Simulation Procedure
 - Creating a HyperArc Treatment Plan
 - Quality Assurance
 - Treatment Delivery
- Training Type: e-learning modules via the VarianThink™ online platform

Prerequisites:

- Basic knowledge of computers and the Windows operating system
- Eclipse™ treatment planning v15.5 or above
- ARIA® oncology information system v15.1 above
- TrueBeam® system / Edge® radiosurgery system v2.7 or above
- Completion of the HyperArc Quality Assurance -- State of the Art and Future Directions Webinar by Richard Popple on MyVarian.com
- Must have Encompass device from QFix and completed Pre-Onsite Encompass Support and Fabrication of Immobilization Device training from QFix

Customer Responsibilities:

- Must have a computer or device with internet access to view online content

Notes:

- This entitlement includes system access for one user per licensed account
- Offer is valid for up to 18 months after installation of product
- Access to course content is valid for up to 90 days from initial access of the course on the VarianThink online platform
- Non-transferable to other users, products, and services and non-refundable

6.0 Eclipse GPU kits for workstations

6.1 Eclipse GPU Workstation Kit

3

An Eclipse GPU (Graphics Processing Unit) kit enables the upgrade of an Eclipse Calculation Workstation to an Eclipse GPU Calculation Workstation.

Features:

- 1 GPU card

Prerequisites:

- An existing Eclipse GPU upgradable Calculation Workstation must be on site with the minimum hardware requirements. For detailed information on hardware requirements, refer to the Hardware Specifications at: www.varian.com/oncology/products/software/treatment-planning/eclipse-treatment-planning-system?cat=resources

7.0 One GPU FAS

7.1 GPU Enabled Framework Agent Server (FAS)

1

A Framework Agent Server (FAS) that includes the necessary GPU (Graphics Processing Unit) cards required to support the Framework Agent Server GPU Algorithm license. The 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 to create a FAS Array.

Features:

- Includes GPU cards

Prerequisites:

- Eclipse 15.5 and higher

Customer Responsibilities:

- A properly networked environment connected at 1Gbps
- Server rack equipped with power supply input voltage 208V/240V AC @50/60Hz 10A
- Power Distribution Unit (PDU) or supply rail which outputs 208V/240V (1600W)

Item	Description	
	<ul style="list-style-type: none"> • Computer Uninterruptible Power Supply (UPS) 220V • Installation of the server into the rack • Installation of server into existing customer domain <p>Notes:</p> <ul style="list-style-type: none"> • Server will not run on low-line 110V/120V AC • Does not support Windows Server 2008R2 	
8.0	One Physician Desktop License	
8.1	<p>Eclipse Physicians Desktop</p> <p>Feature(s):</p> <ul style="list-style-type: none"> • Contouring and Image Registration Tools • 4D Planning and Image Support • Deformable Image Registration • Eclipse Scripting API • DICOM RT <p>Prerequisites:</p> <ul style="list-style-type: none"> • Eclipse Non-Calculation Workstation 	1
8.2	<p>Eclipse Non-Calculation Workstation</p> <p>Features:</p> <ul style="list-style-type: none"> • Eclipse non-calculation workstation <p>Prerequisites:</p> <ul style="list-style-type: none"> • Eclipse Physician's Desktop Package <p>Notes:</p> <ul style="list-style-type: none"> • Monitor not included 	1
8.3	27" LCD Monitor (16.9)	1
9.0	RapidPlan Adoption and scripting	
9.1	<p>CTS RapidPlan Implementation with Auto Plan Scripts</p> <p>CTSI will bring its expertise on RapidPlan modeling and peer review to ensure that the RapidPlan program is implemented appropriately and effectively to improve plan quality and consistency for each treatment site. Each program will include 3 phases: initial assessment and data collection (performed remotely), onsite training and remote support post-training Auto-planning scripts will be provided and developed for 2 disease sites as outlined below.</p> <p>Scope of Work:</p> <p>RapidPlan:Auto Planning: Write the auto planning script on-site according to the customers clinical protocol for (2) two of the disease site models.</p> <ul style="list-style-type: none"> • Takes the plan from contours, copies the plan, adds a default beam set • Matches structure names to standard, defined names • Adds the RapidPlan model to the plan • Optimize and calculate based on their protocol • Calculate the trade-off explorations • Save plan with a custom naming convention chosen by the customer • Score the resulting plans for quality based on accepted clinical guidelines <p>Deliverables:</p> <ul style="list-style-type: none"> • One RapidPlan model (one disease site) validated for clinical use • Executable binary scripts for auto-planning sites <p>Prerequisites:</p> <ul style="list-style-type: none"> • RapidPlan licenses • Eclipse v15 with MCO minimum configured for the photon algorithms <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> • Allow CTSI to provide data mining to collect the patients needed for plan review, verification, and validation • Customer must provide their current clinical constraints/protocols used for disease site/model • Remote IT interface must be established and working 2 weeks prior to start • Customer on site Physicians, Physicists, and Dosimetrists must be available and engaged during the service • Identify validation plans for the (2) two treatment sites and the (2) two auto-planning scripts • Site physicist must be present for deliverables and approvals 	1

Item	Description
Notes: <ul style="list-style-type: none"> CTSI and Varian are not responsible for the treatment plans used for treating patient 	
10.0	Applications Training
10.1	<p>Advantage Contract Credits</p> <p>Advantage Credits can be utilized for Varian's Professional Services, such as on-site applications training, education, consulting (in applicable regions), and third-party services including clinical schools that are purchased through Varian. For further details, please reference the attached Terms and Conditions.</p> <p>Notes:</p> <ul style="list-style-type: none"> Offer is valid for 24 months after purchase
10.2	<p>Product Applications TrueBeam (per hour) 32.0</p> <p>(Qty : 32, Credit per Qty : 1.0) Additional TrueBeam onsite training is available for previously trained Varian products. Sold and delivered by hours.</p>
10.3	<p>Product Applications Eclipse (per hour) 56.0</p> <p>(Qty : 56, Credit per Qty : 1.0) Additional Eclipse onsite training is available for previously trained Varian products. Sold and delivered by hours.</p>
10.4	<p>Product Apps Sp ARIA RadONC (per hour) 88.0</p> <p>(Qty : 88, Credit per Qty : 1.0) Additional ARIA Radiation Oncology onsite training is available for previously trained Varian products. Sold and delivered by hours.</p>
10.5	<p>Product Applications Velocity (per hour) 16.0</p> <p>(Qty : 16, Credit per Qty : 1.0) Additional Velocity onsite training is available for previously trained Varian products. Sold and delivered by hours.</p>
11.0	Additional Course Tuitions
11.1	<p>Advantage Contract Credits</p> <p>Advantage Credits can be utilized for Varian's Professional Services, such as on-site applications training, education, consulting (in applicable regions), and third-party services including clinical schools that are purchased through Varian. For further details, please reference the attached Terms and Conditions.</p> <p>Notes:</p> <ul style="list-style-type: none"> Offer is valid for 24 months after purchase
11.2	<p>Travel and Lodging</p> <p>Travel and Lodging that is purchased through Varian can only be used for attendance of education courses at a Varian Education Center and Varian clinical schools. Travel and Lodging cannot be used to attend tradeshows or any event not related to Varian education and training courses.</p> <p>Allowance is applied only to the travel and lodging expenses, including airfare, hotel accommodations at a Varian preferred hotel, and a rental car. The customer is responsible for any expenses outside of the allowance.</p> <p>Travel and lodging charges will be direct billed and are not reimbursable if travel is booked outside of Balboa Travel or the travel agents used by Varian Medical Systems only. The customer should contact Balboa Travel Agency at 877-593-7220 to make the necessary travel arrangements once the customer has confirmed their course registration. The customer must provide Balboa their Varian sales order number.</p>

Item	Description	
	<p>The Travel and Lodging allowance expires 24 months from the acceptance date of the equipment. Any remaining balance is non-refundable and cannot be traded for other products or services.</p>	
11.3	<p>ED:CL222 Respiratory Gating</p> <p>(Qty : 1, Credit per Qty : 6.0) Includes Tuition and Materials for ONE Person</p> <p>The goal this course is to provide participants the principles and practice of respiratory gating in radiation oncology for clinical implementation. The Respiratory Gating course will cover the following topics: rationale for respiratory gating, clinical application of respiratory gating, general overview of respiratory-gated CT simulation, respiration-synchronized conventional simulation, and respiratory-gated treatment delivery for both Conformal Radiotherapy and IMRT/VMAT. The course also covers QA procedures for Respiratory gating consistency/functionality. PLEASE NOTE: This course is suitable for Clinac and TrueBeam users. Respiratory Gating will be demonstrated on both machines during this course</p> <p>Designed for Radiation Therapists and Medical Physicists</p> <p>Pre-Requisites: None</p> <p>Duration and Location:</p> <p>2.0 days</p> <p>Varian Education Center</p> <p>Las Vegas, Nevada, USA</p> <p>Application has been made to CAMPEP for MPCEC credits</p> <p>Advantage Credits Eligible</p> <p>Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals), unless otherwise stated.</p>	6.0
11.4	<p>ED: TB201 TrueBeam Platform Physicists</p> <p>(Qty : 1, Credit per Qty : 16.0) Includes Tuition and Materials for ONE Person</p> <p>This course provides training for Medical Physicists responsible for commissioning and administration of the TrueBeam machine. The course consists of combination of lectures, demonstrations, and hands-on exercises carried out in a lab equipped with fully functioning TrueBeam system. The course provides an overview of TrueBeam hardware, software and control system, to a depth sufficient for the user to prepare the system for clinical use. The course also includes demonstration of common IGRT, Motion Management and treatment plan delivery techniques. PLEASE NOTE: For more in-depth calibration and maintenance training, see TrueBeam Technical Maintenance I & II.</p> <p>Designed for Medical Physicists</p> <p>Pre-Requisites: Masters degree in Medical Physics, or equivalent</p>	16.0

Item	Description	
	<p>Duration and Location:</p> <p>4.0 days</p> <p>Varian Education Center</p> <p>Las Vegas, Nevada, USA</p> <p>Application has been made to CAMPEP credits</p> <p>Advantage Credits Eligible</p> <p>Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals), unless otherwise stated.</p>	
11.5	<p>ED: RP201 RapidPlan Implementation</p> <p>(Qty : 1, Credit per Qty : 11.0)</p> <p>The RapidPlan® knowledge-based planning Implementation course enables participants to implement RapidPlan and make it part of the clinical routine. The training is designed to enable users to be competent and confident in using RapidPlan functionality within the Eclipse™ treatment planning system. Users will be provided the knowledge to help them gain mastery of knowledge-based planning concepts as well as experience using and creating DVH estimation models, including the ability to verify and validate models. Users will learn and practice strategies for leveraging Varian-provided and other shared models for a quick ramp-up with RapidPlan.</p> <p>Features:</p> <ul style="list-style-type: none"> Topics covered include: <ul style="list-style-type: none"> Introduction to RapidPlan Applying RapidPlan models Model configuration workspace Varian models and validation process Creating a prostate and head-neck models Training Type: Virtual Instructor Led Training (VILT) <p>Prerequisites:</p> <ul style="list-style-type: none"> Eclipse™ Treatment Planning System installed and accepted Eclipse v13.6 or higher Completion of Varian courses EC101 and EC102 (or equivalent) courses Access to Model Analytics <p>Customer Responsibilities:</p> <ul style="list-style-type: none"> Must have access to a telephone and computer with an internet connection <p>Notes:</p> <ul style="list-style-type: none"> Offer is valid for up to 24 months after purchase Includes tuition and materials for one person 	11.0
11.6	<p>ED: TB101 TrueBeam Platform Operations</p> <p>(Qty : 1, Credit per Qty : 16.0)</p> <p>Includes Tuition and Materials for ONE Person</p> <p>This course provides training for Radiation Therapists responsible for the operation of the TrueBeam, providing an overview of the TrueBeam system, hands-on training to include: system components, shutdown procedure, startup with basic morning QA procedures, startup after an emergency shutdown and power failure, basic administrative information and treatment and imaging scenarios to include: basic 2D and 2D-2D imaging, treatment with automation, LaserGuard II and Machine Protection, imaging and treatment with custom blocks, Cone-Beam CT , gated imaging and treatment with intra-fraction motion review, auto-beam hold and emergency treatment.</p> <p>Designed for Radiation Therapists who will treat patients on a daily basis and will be able to teach TrueBeam others users in the department</p> <p>Pre-Requisites: Clinical training in Radiation Therapy. Clinical experience if treating patients on Varian machines. Clinical experience of IGRT, OBI and Cone-Beam CT.</p>	16.0

Item	Description	
	Application has been made for MPCEC credits	
	Duration and Location:	
	4.0 days	
	Varian Education Center	
	Las Vegas, Nevada, USA	
	Advantage Credits Eligible	
	Customer is responsible for all travel expenses (airfare, hotel, rental car, meals and travel incidentals), unless otherwise stated.	
12.0	Adhoc	
12.1	Remove/Dispose Existing Equipment	1
	Removal and Disposal of H294372	
13.0	Adhoc	
13.1	Trade-In Discount	1
	Trade in discount for H294372	

Summary of Advantage Contract Credits Quoted Above

Section 10.0

Year 1 Total	192.0
Total Credits	192.0

Section 11.0

Year 1 Total	49.0
Total Credits	49.0

Sales Price Table

TradeIn-Cancellations	US \$-50,000.00
Sales Total	US \$3,760,646.00
Quotation Total	US \$3,760,646.00

Advantage Credits Supplemental Terms and Conditions

(Form RAD 10442)

These Advantage Credits Supplemental Terms and Conditions ("**Supplemental Terms**") modify and supplement the Varian Terms and Conditions of Sale (Form RAD 1652, current version issued with the Quotation) (the "**Terms and Conditions of Sale**"). The terms of the applicable Varian Quotation ("**Quotation**"), its attachments, including the Terms and Conditions of Sale, are incorporated herein by this reference, and together with these Supplemental Terms and any applicable Third Party Terms (as defined in the Quotation) (collectively referred to as the "**Agreement**") will apply and govern the use by Customer of Advantage Credits.

1. General

The Varian Advantage Credit Program (the "**Program**") offers customers the ability to purchase Advantage Credits in advance that can be applied toward designated Varian Professional Services including certain consulting (e.g. specified and limited implementation and optimization services), on-site training, educational courses and a limited number of services provided by designated third party service providers, including clinical schools and physics commissioning services. Advantage Credits provide flexibility for the Customer to apply them interchangeably for those designated services available under the Program without having to modify the underlying Quotation and related purchase order. However, Varian must be notified in advance and in writing of any requested changes to selected services.

2. Expiration Schedule

Advantage Credits expire according to the following schedule:

Type of Order	Expiration Date
Advantage Credits only (no Varian products)	24 months from date of order
Advantage Credits with one or more Varian products	24 months from first date of product/service acceptance
Multiyear agreement	End of the term of agreement

3. Scopes of Work

Varian or its third party service providers may, at their discretion, set forth in a written Scope of Work (SOW) a description of the services to be provided by Varian or the third party service provider. If the services that will be purchased with Advantage Credits are defined within the Quotation, Varian will offer the specific services listed for the amount of Advantage Credits indicated. If Advantage Credits in the Quotation are "**Undefined**", Varian will indicate the number of Advantage Credits required for a particular service at the time the Customer wants to use them.

4. Third Party Service Providers

4.1 Certain services are provided by and through third party service providers that are not affiliated with Varian, namely clinical schools and physics services (e.g. commissioning). Varian disclaims any warranty or performance obligations related to any third party service provider and will act solely as a pay agent, to collect fees for services from Customer and to pay fees for such services to the third party service provider. Customer has the final decision to purchase services through Varian third party service providers or to select another service provider outside of the Quotation and Varian does not make any recommendations to use third party service providers.

4.2 **Changes to Third Party Service Providers by Customer.** Customer shall have a one-time right to request in writing that a third party service provider be replaced with an alternate provider that is participating in the Program. If Varian, at its sole discretion, approves the request, Customer shall be subject to any related termination fees and additional costs incurred by Varian or the third party service provider and other terms and conditions indicated in the

SOW and/or Quotation. Customer, the third party service provider, and if applicable, its subcontractors, shall have full responsibility for services as defined in the Quotation or SOW, as applicable, and Varian shall have no responsibility, obligation and/or liability whatsoever for those services. The third party service provider shall not be construed to be a subcontractor, employee, or agent of Varian. Varian will forward any requests for warranty work that it receives from Customer to the third party service provider. Except as otherwise provided in this section of the Quotation, the Terms and Conditions of Sale shall apply to this section just as it applies to all other parts of the Quotation.

- 4.3 **Changes to Third Party Service Providers by Varian.** Varian reserves the right, at its sole discretion, to change, from time to time, its list of third party providers that participate in the Program.

5. Performance of Services

All services shall be performed by Varian or the third-party service provider under permits, licenses, authority, supervision, and control of Customer and its staff, including licensed physicists, physicians, and other qualified healthcare professionals. Customer and its staff shall have the requisite permits (including applicable certificates of need), licenses, and authority to oversee and have such services performed on Customer's behalf.

6. Service Offerings

Varian reserves the right, at its sole discretion, to change the designated services which are offered under the Program at any time without prior notice. Varian will work with Customer to offer a mutually acceptable alternative or apply affected credits toward other offerings within the Program.

Quotation Total

Quotation Total

US \$3,760,646.00