



DEPARTMENT OF HEALTH AND HUMAN SERVICES  
DIVISION OF HEALTH SERVICE REGULATION

ROY COOPER  
GOVERNOR

MANDY COHEN, MD, MPH  
SECRETARY

MARK PAYNE  
DIRECTOR

May 17, 2017

Dee Jay Zerman  
Hedrick Building  
211 Friday Center Drive, Suite G104  
Chapel Hill, NC 27517

**Exempt from Review – Replacement Equipment**

**Record #:** 2262  
**Facility Name:** High Point Regional Health System  
**FID #:** 943251  
**Business Name:** High Point Regional Health System  
**Business #:** 920  
**Project Description:** Replace existing Varian linear accelerator (G-7544-06) with a new Elekta Infinity linear accelerator  
**County:** Guilford

Dear Ms. Zerman:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that based on your letter of May 16, 2017, the above referenced proposal is exempt from certificate of need review in accordance with N.C. Gen. Stat. §131E-184(f). Therefore, you may proceed to acquire without a certificate of need the Elekta Infinity linear accelerator to replace the Varian 21 iX, Serial #3445 (Project ID #G-7544-06). This determination is based on your representations that the existing unit will be sold or otherwise disposed of and will not be used again in the State without first obtaining a certificate of need if one is required.

Moreover, you need to contact the Agency's Construction and Acute and Home Care Licensure and Certification Sections to determine if they have any requirements for development of the proposed project.

**HEALTHCARE PLANNING AND CERTIFICATE OF NEED SECTION**

WWW.NCDHHS.GOV

TELEPHONE 919-855-3873

LOCATION: EDGERTON BUILDING • 809 RUGGLES DRIVE • RALEIGH, NC 27603


MAILING ADDRESS: 2704 MAIL SERVICE CENTER • RALEIGH, NC 27699-2704

AN EQUAL OPPORTUNITY/ AFFIRMATIVE ACTION EMPLOYER

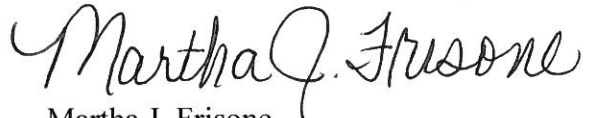


It should be noted that the Agency's position is based solely on the facts represented by you and that any change in facts as represented would require further consideration by this office and a separate determination. If you have any questions concerning this matter, please feel free to contact this office.

Sincerely,



Celia C. Inman  
Project Analyst



Martha J. Frisone  
Assistant Chief, Certificate of Need

cc: Construction Section, DHSR  
Paige Bennett, Assistant Chief, Healthcare Planning, DHSR  
Acute and Home Care Licensure and Certification Section, DHSR

 **HIGH POINT  
REGIONAL**  
UNC HEALTH CARE

Hedrick Building  
211 Friday Center Drive, Suite G014  
Chapel Hill, NC 27517

May 16, 2017

Celia Inman, Project Analyst  
Certificate of Need Section  
Division of Health Service Regulation, DHHS  
Mail Service Center 2704  
Raleigh, NC 27699-2704



RE: Exemption Notice / Replacement of existing linear accelerator pursuant to NCGS §  
131E-184(f) / High Point Regional Hospital / Guilford County

Dear Ms. Inman:

High Point Regional Hospital is planning to replace an existing linear accelerator and is requesting a determination that the replacement of this equipment is exempt from review pursuant to NCGS §131E-184(f). In conformance with NCGS §131E-184(f)(3) and (a)(7), this request also serves as prior written notice of intent to replace the existing Varian iX that was placed in service during 2007, and approaching the end of its useful life.

Since the machine is 10 years old, the frequency of downtime and repairs is increasing. Excessive downtime creates patient delays and exam cancellations, which dissatisfies patients, referring physicians, and staff. Downtime and system limitations also add operational costs to the service and negatively impact departmental staffing patterns. The existing machine does not have kilo voltage (kV) image which is preferable for accurate patient immobilization and target localization for radiation treatment. In comparison, the new Elekta Infinity machine has planar kV CBCT and VMAT capabilities.

This replacement also meets the requirements of NCGS §131E-184(f) as follows:

*(1) the equipment being replaced is located on the main campus.*

The existing equipment is located in the Radiation Therapy Department of the Hayworth Cancer Center, on the main campus of High Point Regional Hospital located at 302 Westwood Avenue in High Point. NCGS §131E-176(14n) defines "Main Campus" as *the site of the main building from which a licensed health service facility provides clinical patient services and exercises financial and administrative control over the entire facility, including the building and grounds adjacent to the main building.*

Exhibit 1 contains a map of the High Point Regional Hospital's main campus and buildings, as

well as a floor plan identifying the Linac vault. The existing linear accelerator is located in the Department of Radiation Therapy, which is called the Phillips Cancer Pavilion, and which is located on the 1<sup>st</sup> floor of the Hayworth Cancer Center. This is where the existing linear accelerator and the treatment planning systems are located, and where the replacement equipment will be located. Both the Hayworth Cancer Center and the Phillips Cancer Pavilion are part of High Point Regional Hospital, which is a licensed health service facility (DHSR Acute Care License No. H0052).

The building from which High Point Regional Hospital provides clinical patient services and exercises financial and administrative control over the entire facility is co-located on the High Point Regional main campus along with the Hayworth Cancer Center. These offices are physically located on the 2<sup>nd</sup> floor of the Carolina Regional Heart Center, immediately adjacent to the Hayworth Cancer Center. The locations of the financial officer and administrative officer are indicated on a map contained in Exhibit 2.

*(2) The Department has previously issued a certificate of need for the equipment being replaced.*

Exhibit 3 contains a copy of the Certificate of Need for CON Project ID # G-7544-06 that was issued on July 18, 2006 to develop the Linac which is planned for replacement.

*(3) The licensed health service facility proposing to purchase the replacement equipment shall provide prior written notice to the Department, along with supporting documentation to demonstrate that it meets the exemption criteria of this subdivision.*

This correspondence serves as prior written notice in accordance with this requirement. Although the existing Varian 21 iX was state-of-the-art when acquired, due to its age it is limited in the ability to offer the technological advances of SBRT and KeV imaging capabilities. These capabilities are not available to this unit as an upgrade. The existing system is difficult to repair and requires significant effort to keep it operational. The downtime creates patient delays and exam cancellations, which dissatisfies patients, as well referring physicians, radiologists and staff. The downtime and system limitations also add operational costs to the service and negatively impact departmental staffing patterns.

Following is the equipment comparison table as required in previous CON replacement requests. Although this replacement will exceed two million dollars, we are supplying the following information that the CON Section previously requested in the past as a part of its general information request for an equipment replacement exemption.

1. *A comparison of the existing and replacement equipment, using the format in the following table:*

*Equipment Comparison*

<b>Linear Accelerator</b>	<b>Existing Equipment</b>	<b>Replacement Equipment</b>
<b>Type of Equipment (List each component)</b>	Linear Accelerator with MeV imager, MLC and couch	Linear Accelerator with KeV, Cone Beam, high dose rate, MLC and couch
<b>Manufacturer of Equipment</b>	Varian	Elekta

project cost also includes \$599,418 for construction up fit costs and A & E costs of \$76,186. See Exhibit 4 for the total project cost sheet. There are no de-installation costs.

*2. A description of the basic technology and functions of the existing and replacement equipment, including the diagnostic and treatment purposes for which the equipment is used or capable of being used.*

*Response:* The machine to be replaced is a Varian 22 iX which was purchased in 2007. The current equipment and the replacement equipment will perform the same general basic functions although the replacement equipment will possess expanded technological capabilities due to technological improvements. See equipment comparison chart above. High Point Regional Hospital does not intend to increase patient charges or current per procedure operating expenses, which is well within the 10% threshold for the first 12 months after its acquisition as contained 10A NCAC 14C .0303 Replacement Equipment. Based on this and other information included in this request, the replacement equipment is comparable medical equipment as defined in 10A NCAC 14C .0303.

*3. Brochures or letters from the vendors describing the capabilities of the existing equipment and the replacement equipment.*

*Response:* A copy of the original brochure and the original quote for the existing Varian 21 iX is not available. A copy of quotes and specifications for the proposed Elekta Infinity and Vision RT are attached as Exhibit 5.

*4. A copy of the purchase order for the existing equipment, including all components and original purchase price.*

*Response:* The original brochure and quote for the existing Varian 21 iX are not available. A copy of quotes for the proposed Elekta Infinity and Vision RT are attached as Exhibit 5.

*5. A copy of the title, if any, for the existing equipment or the capital lease for the existing equipment.*

*Response:* Not applicable. The existing equipment does not have a title and is not leased.

*6. If the replacement equipment is to be leased, a copy of the proposed lease that transfers substantially all the benefits and risks inherent in the ownership of the equipment to the lessee of the equipment, in accordance with criteria in Generally Accepted Accounting Principles (GAAP).*

*Response:* Not applicable. The replacement equipment will not be leased.

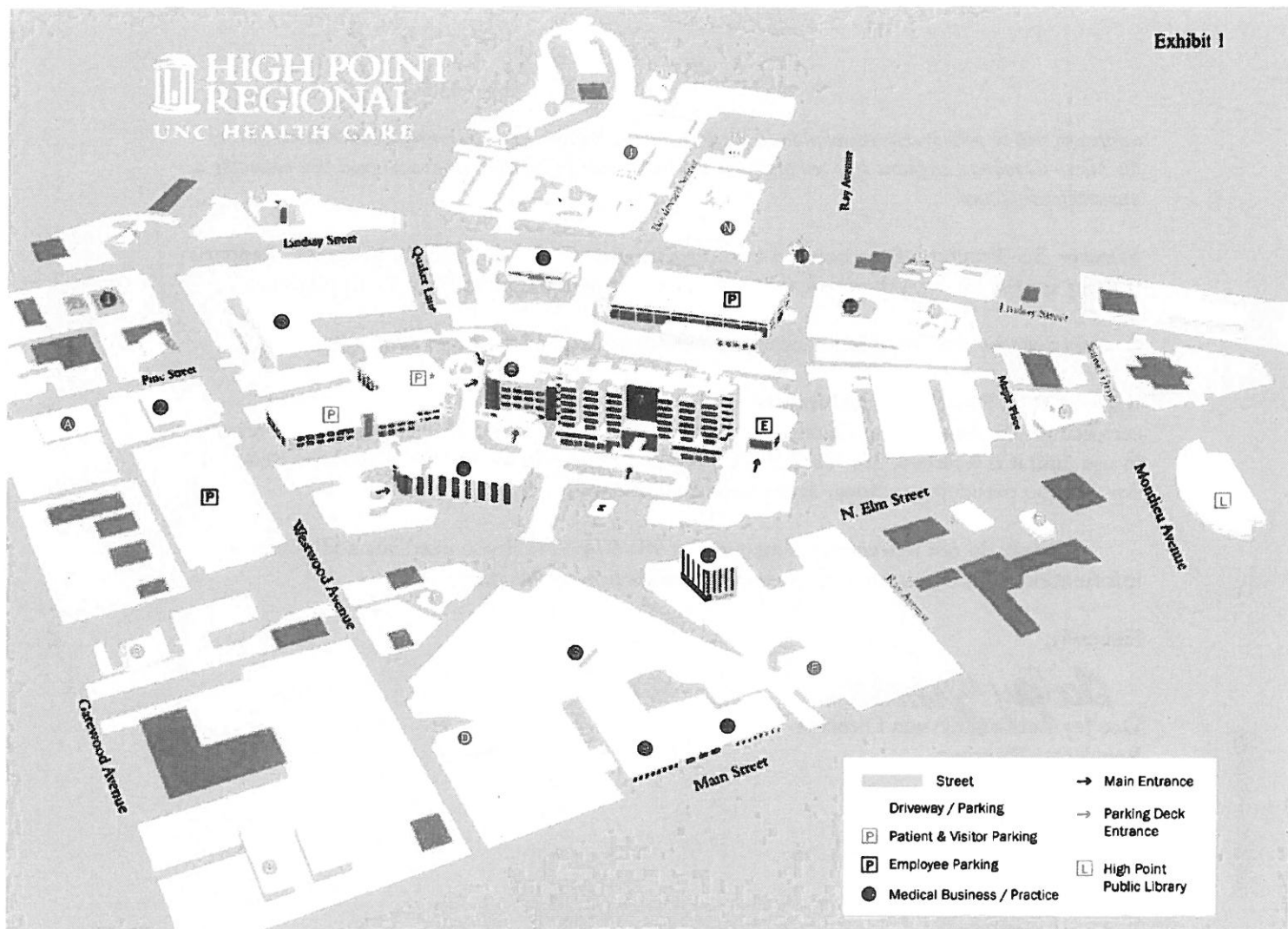
*7. If the replacement equipment is to be purchased, a copy of the proposed purchase order or quotation, including the amount of the purchase price before discounts and trade-in allowance.*

*Response:* A copy of quotes for the proposed Elekta Infinity and Vision RT are attached as Exhibit 5. The existing machine is fully depreciated and the final value of resale parts for the Varian 21 iX is unknown at this time.

*8. A letter from the person taking possession of the existing equipment that acknowledges the existing*

<i>Tesla Rating for MRIs</i>	Not applicable	Not applicable
<i>Model Number</i>	21 iX	Infinity
<i>Serial number</i>	3445	Not yet available
<i>Provider's Method of Identifying Equipment</i>	By model & serial #s	By model & serial #s
<i>Specify if Mobile or Fixed</i>	Fixed	Fixed
<i>Mobile Trailer Serial Number/VIN #</i>	Not applicable	Not applicable
<i>Mobile Tractor Serial Number/VIN #</i>	Not applicable	Not applicable
<i>Date of Acquisition of Each Component</i>	6/30/2007	TBD
<i>Does Provider Hold Title to Equipment or Have a Capital Lease?</i>	Own	Will own
<i>Specify if Equipment Was/Is New or Used When Acquired</i>	New	Will be new
<i>Total Capital Cost of Project (Including Construction, etc.)</i>	\$2,055,962 for "21 iX" individual other costs unable to be located	\$2,889,804 for Elekta Infinity and Vision RT. See Exhibit 4.
<i>Total Cost of Equipment</i>	Linear Accelerator with MeV imager, MLC and couch	\$2,214,200 for Elekta Infinity and Vision RT Exhibit 5 includes quotes.
<i>Fair Market Value of Equipment</i>	Equipment is fully depreciated. Value of resale parts unknown at this time.	\$2,214,200 for Elekta Infinity and Vision RT Exhibit 5 includes quotes.
<i>Net Purchase Price of Equipment</i>	\$2,055,962 for "21 iX" individual other costs unable to be located	\$2,214,200 for Elekta Infinity and Vision RT Exhibit 5 includes quotes.
<i>Locations Where Operated</i>	Phillips Cancer Pavilion, Hayworth Cancer Center, High Point Regional Hospital Main Campus	Phillips Cancer Pavilion, Hayworth Cancer Center, High Point Regional Hospital Main Campus
<i>Number of Days In Use/To be Used in N.C. Per Year</i>	365 days	365 days
<i>Percent of Change in Patient Charges (by Procedure)</i>	Not applicable	Existing procedures will have no change in patient charges. A few new patient charges will result due to new functionality of replacement equipment.
<i>Percent of Change in Per Procedure Operating Expenses (by Procedure)</i>	Not applicable	Existing procedures will have no change in patient charges. A few new types of charges will result due to functionality of replacement equipment.
<i>Type of Procedures Currently performed on Existing Equipment</i>	External Beam Radiation Treatment, MeV Imaging, CBCT	Not applicable
<i>Type of Procedures New Equipment is Capable of Performing</i>	Not applicable	External Beam Radiation Treatment, planar kV and kV Cone Beam CT Imaging, SBRT

As noted in the chart above, the total project cost is approximately \$2,889,804 including equipment and related costs necessary for the installation and operation of the replacement system. Valid quotes are attached as Exhibit 5. In addition to the equipment costs, the total



**High Point Regional Health 7**  
 The Emergency Center [E]  
 Esther R. Culp Women's Center  
 The Piedmont Joint Replacement Center

**Hayworth Cancer Center 4**  
 UNC Hospitals Radiation Oncology at HP  
 UNC Hospitals PET/CT Imaging at HP  
 UNC Hospitals Hematology/Oncology at HP  
 The Cancer Resource Center  
 HPRH Oncology Care Unit  
 Inpatient Rehab Center  
 The Smith Psychiatric Center

**Carolina Regional Heart Center 5**  
 The Fitness Center  
 Medical Staff Relations  
 Women's Imaging Suite  
 Day Hospital  
 Carolina Cardiology [E]  
 Pinewest OB/GYN [P+]  
 UNC Cardiothoracic Surgery Clinic at High Point  
 Women's Resource Center and Classrooms  
 Risk Management

**The Surgery Center 6**

**Public Relations & Marketing 8**  
**Contact Center**

**The Rehab Center 10**  
 Speech Therapy  
 Regional Wound Center

**The Neuroscience Center 11**

**Millis Regional Health Education Center 9**  
 High Point Regional Health Foundation

**404 Westwood Building 3**  
 Central Carolina Dermatology  
 High Point Pediatrics  
 UNC Regional Physicians Internal Medicine  
 UNC Regional Physicians Neurosurgery  
 UNC Regional Physicians Vascular and Wound Care  
 UNC Regional Physicians Women's Health  
 High Point Nephrology  
 UNC Regional Physicians Pediatrics

**319 Westwood Building 2**

**Pathology 12**

**Billing Office 14**  
 Finance / Payroll Office

**Human Resources 13**

**Physician Practices or nearby Businesses**

- [A] UNC Regional Physicians Urology
- [B] UNC Regional Physicians OBGYN
- [C] BMI Nephrology
- [D] Allergy and Asthma Center
- [E] Karen Lanier, DDS
- [F] Community Clinic of High Point
- [G] Bethany Medical Center
- [H] High Point Gastroenterology
- [I] Triad Adult & Pediatric Medicine
- [J] UNC Liver Clinic at High Point
- [K] UNC Regional Physicians Physical Medicine and Rehabilitation
- [L] UNC Regional Physicians Orthopedics & Sports Medicine
- [M] Regional Psychiatric Associates - Workplace Solutions EAP
- [N] Bright Horizons Daycare
- [O] Oral & Maxillofacial Surgeons: Drs. DeSalvo, Rango & Russell
- [P] Emerywood Medical Specialities
- [Q] R. Van Fletcher, MD - Gynecology
- [R] Regional Center for Bariatric Surgery - UNC Regional Physicians Diabetes Health and Wellness

*equipment will be permanently removed from North Carolina, will no longer be exempt from requirements of the North Carolina Certificate of Need law, and will not be used in North Carolina without first obtaining a new certificate of need.*

*Response:* See Exhibit 6 for a copy of a confirmation letter and quote from Radparts. Radparts will pay for the removal therefore there is no de-installation cost to High Point Regional.

*9. Documentation that the existing equipment is currently in use and has not been taken out of service.*

*Response:* High Point Regional Hospital's equipment is currently in use as indicated and certified on the most recent Licensure Renewal Application form. The equipment will remain in use until it is replaced. See Exhibit 7 for copies of pages from the 2017 Licensure Renewal Application pertaining to linear accelerator equipment.

Please do not hesitate to contact me at 984-974-1243 if you need any additional information. Thank you for your prompt consideration of this matter.

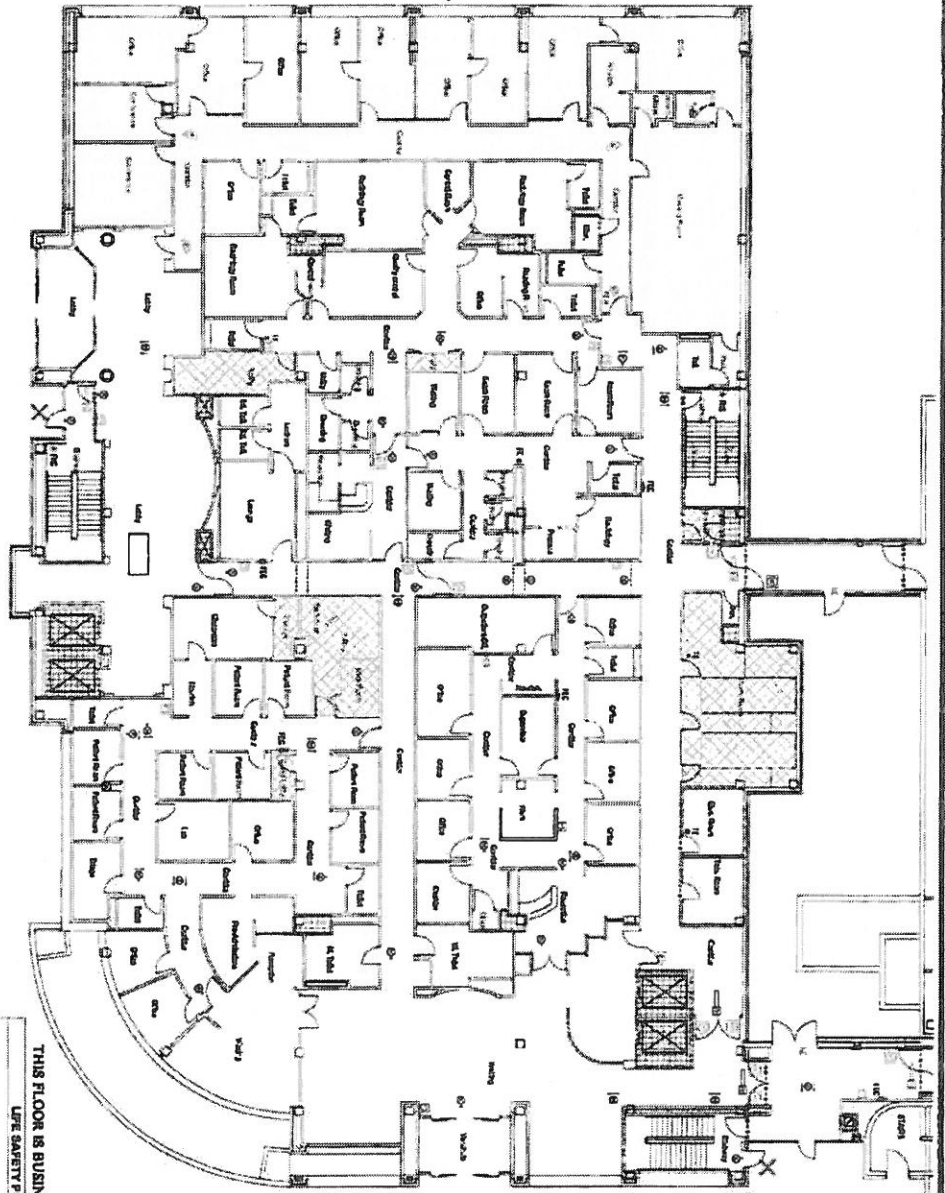
Sincerely,

  
Dee Jay Zerman, System Director  
Regulatory Planning  
UNC HCS





FINANCIAL & ADMIN. OFFICES



SECOND FLOOR LIFE SAFETY PLAN - RATINGS AND DEVICES

THIS FLOOR IS BUSINESS OCCUPANCY

LIFE SAFETY PLAN LEGEND

- 1 HOUR FIRE BARRIER
- 2 HOUR FIRE BARRIER
- 1 HOUR FIRE/SMOKE BARRIER
- 2 HOUR FIRE/SMOKE BARRIER
- SMOKE TIGHT PARTITION
- EXIT DOOR

SYMBOL	DESCRIPTION	NOTED BY	DATE
[Symbol]	1 HOUR FIRE BARRIER		
[Symbol]	2 HOUR FIRE BARRIER		
[Symbol]	1 HOUR FIRE/SMOKE BARRIER		
[Symbol]	2 HOUR FIRE/SMOKE BARRIER		
[Symbol]	SMOKE TIGHT PARTITION		
[Symbol]	EXIT DOOR		

LS-2.1

SECOND FLOOR  
LIFE SAFETY PLAN  
RATINGS AND DEVICES

**HIGH POINT REGIONAL**  
UNC HEALTH CARE  
LIFE SAFETY PLAN UPDATE CARDIOLOGY PAVILLION

MOULTON  
ARCHITECTS  
ARCHITECTS

**STATE OF NORTH CAROLINA**  
 Department of Health and Human Services  
 Division of Facility Services

**CERTIFICATE OF NEED**  
 for  
**Project Identification Number #G-7544-06**  
**FID# 943251**

**ISSUED TO: High Point Regional Health System**  
**601 North Elm Street**  
**High Point, NC 27262**

Pursuant to N.C. Gen. Stat. § 131E-175, et. seq., the North Carolina Department of Health and Human Services hereby authorizes the person or persons named above (the "certificate holder") to develop the certificate of need project identified above. The certificate holder shall develop the project in a manner consistent with the representations in the project application and with the conditions contained herein and shall make good faith efforts to meet the timetable contained herein. The certificate holder shall not exceed the maximum capital expenditure amount specified herein during the development of this project, except as provided by N.C. Gen. Stat. § 131E-176(16)e. The certificate holder shall not transfer or assign this certificate to any other person except as provided in N.C. Gen. Stat. § 131E-189(c). This certificate is valid only for the scope, physical location, and person(s) described herein. The Department may withdraw this certificate pursuant to N.C. Gen. Stat. § 131E-189 for any of the reasons provided in that law.

**SCOPE: High Point Regional Health System shall replace an existing linear accelerator and renovate space to accommodate the replacement equipment/ Guilford County**

**CONDITIONS: See Reverse Side**

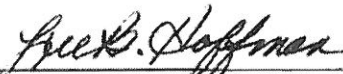
**PHYSICAL LOCATION: High Point Regional Health System**  
**601 North Elm Street**  
**High Point, NC 27262**

**MAXIMUM CAPITAL EXPENDITURE: \$2,426,835**

**TIMETABLE: See Reverse Side**

**FIRST PROGRESS REPORT DUE: September 30, 2006**

This certificate is effective as of the 18<sup>th</sup> day of July, 2006.

  
 Chief, Certificate of Need Section  
 Division of Facility Services

**Project I.D. #G-7544-06  
High Point Regional Health System**

**Conditions**

1. High Point Regional Health System shall materially comply with all representations made in the certificate of need application.
2. Upon completion of the project, High Point Regional Health System shall be licensed for no more than two linear accelerators.
3. High Point Regional Health System shall not acquire, as part of this project, any equipment that is not included in the project's proposed capital expenditure in Section VIII of the application or that would otherwise require a certificate of need.
4. High Point Regional Health System shall acknowledge acceptance of and agree to comply with all conditions stated herein to the Certificate of Need Section in writing prior to issuance of the certificate of need.

A letter acknowledging acceptance of and agreeing to comply with the conditions was received by the Certificate of Need Section on June 26, 2006.

**Timetable**

Operation of replacement equipment.....October 1, 2007

## PROPOSED TOTAL CAPITAL COST OF PROJECT

<b>A. Site Costs</b>			
(1) Full purchase price of land		\$	0
Acres _____ Price per Acre \$ _____			
(2) Closing costs		\$	0
(3) Site Inspection and Survey		\$	0
(4) Legal fees and subsoil investigation		\$	0
(5) Site Preparation Costs			
Soil Borings	\$	0	
Clearing - Earthwork	\$	0	
Fine Grade for Slab	\$	0	
Roads - Paving	\$	0	
Concrete Sidewalks	\$	0	
Water and Sewer	\$	0	
Footing Excavation	\$	0	
Footing Backfill	\$	0	
Termite Treatment	\$	0	
Other (Specify)	\$	0	
Sub-Total Site Preparation Costs		\$	0
(6) Other (Specify)		\$	0
(7) Sub-Total Site Costs		\$	0
<b>B. Construction Contract</b>			
(8) Cost of Materials			
General Requirements	\$	206,000	
Concrete/Masonry	\$	0	
Woods/Doors & Windows/Finishes	\$	0	
Thermal & Moisture Protection	\$	0	
Equipment/Specialty Items	\$	23,000	
Mechanical/Electrical	\$	0	
Other ()	\$	0	
Sub-Total Cost of Materials		\$	229,000
(9) Cost of Labor		\$	309,000
(10) Other: Construction Contingency		\$	61,418
(11) Sub-Total Construction Contract		\$	599,418
<b>C. Miscellaneous Project Costs</b>			
(12) Building Purchase		\$	0
(13) Fixed Equipment Purchase		\$	2,214,200
(14) Movable Equipment Purchase		\$	0
(15) Furniture		\$	0
(16) Landscaping		\$	0
(17) Consultant Fees			
Architect and Engineering Fees	\$	76,186	
Legal Fees	\$	0	
Market Analysis	\$	0	
Sub-Total Consultant Fees		\$	0
(18) Financing Costs (e.g. Bond, Loan, etc.)		\$	0
(19) Interest During Construction		\$	0
(20) Other: Project Contingency		\$	0
(21) Sub-Total Miscellaneous		\$	2,889,804
(22) Total Capital Cost of Project (Sum A-C above)			

I certify that, to the best of my knowledge, the above construction related costs of the proposed project named above are complete and correct.

\_\_\_\_\_  
Signature of Licensed Architect or Engineer

100 Queens Road  
Suite 200  
Charlotte, NC 28204  
704/372-2740  
www.McCullochEngland.com



May 3, 2017  
H1727/17

Mr. David Murray  
Director, Facilities Management  
High Point Regional Health System  
601 North Elm Street  
High Point, NC 27261

Re: Linear Accelerator #2 Equipment Replacement  
High Point Regional UNC Health Care  
High Point, NC

Dear David,

This letter shall certify to the best of our knowledge, that the construction costs shown below are the costs which might be expected for this scope of work.

**Preliminary Construction Cost Estimate**

**Linear Accelerator #2 Equipment Replacement**

Estimated Construction Cost: .....	\$ 538,000.00
Construction Contingency: .....	\$ 61,418.00
Total: .....	\$ 599,418.00

Estimated Architectural/Engineering Fee: .....\$ 76,186.00

**Preliminary Estimated Construction Schedule**

- (1) Phase = (4) Months

The Preliminary Construction Cost Estimate and Schedule duration is based on similar construction and equipment replacement in the High Point Regional Linear Accelerator #1 Equipment Replacement project completed and occupied in January 2016 (with additional contingency and escalation taken into consideration).

Richard A. Menly AIA  
William D. England AIA  
Larry E. May, Jr. AIA  
Grace O. Murray AIA  
Michael D. Rowell AIA  
Ellen S. Standish AIA  
Richard B. Butler AIA  
James M. Wiley AIA  
Jack L. Gill AIA  
Michael K. Satterfield AIA  
Steve A. Assante AIA  
Daniel A. Kinken AIA  
Garrett M. Olin AIA

*An Architectural Corporation*

Page 2  
May 3, 2017  
H1727/17

McCULLOCH  
ENGLAND  
ASSOCIATES  
ARCHITECTS

This estimate is for construction costs and Architectural/Engineering fees only. The above estimate does not include equipment, furniture, financing costs, security system costs, IT system costs, or other costs generally attributable to a project of this nature.

If you should require any additional information, please do not hesitate to give me a call.

Sincerely,

McCULLOCH ENGLAND ASSOCIATES ARCHITECTS



Richard A. Henly, AIA LEED AP  
President

CC: Arnold Clark  
Larry May



# Elekta Infinity™

Digital accelerator for advanced treatments



*Redefining treatment precision,  
speed and control*

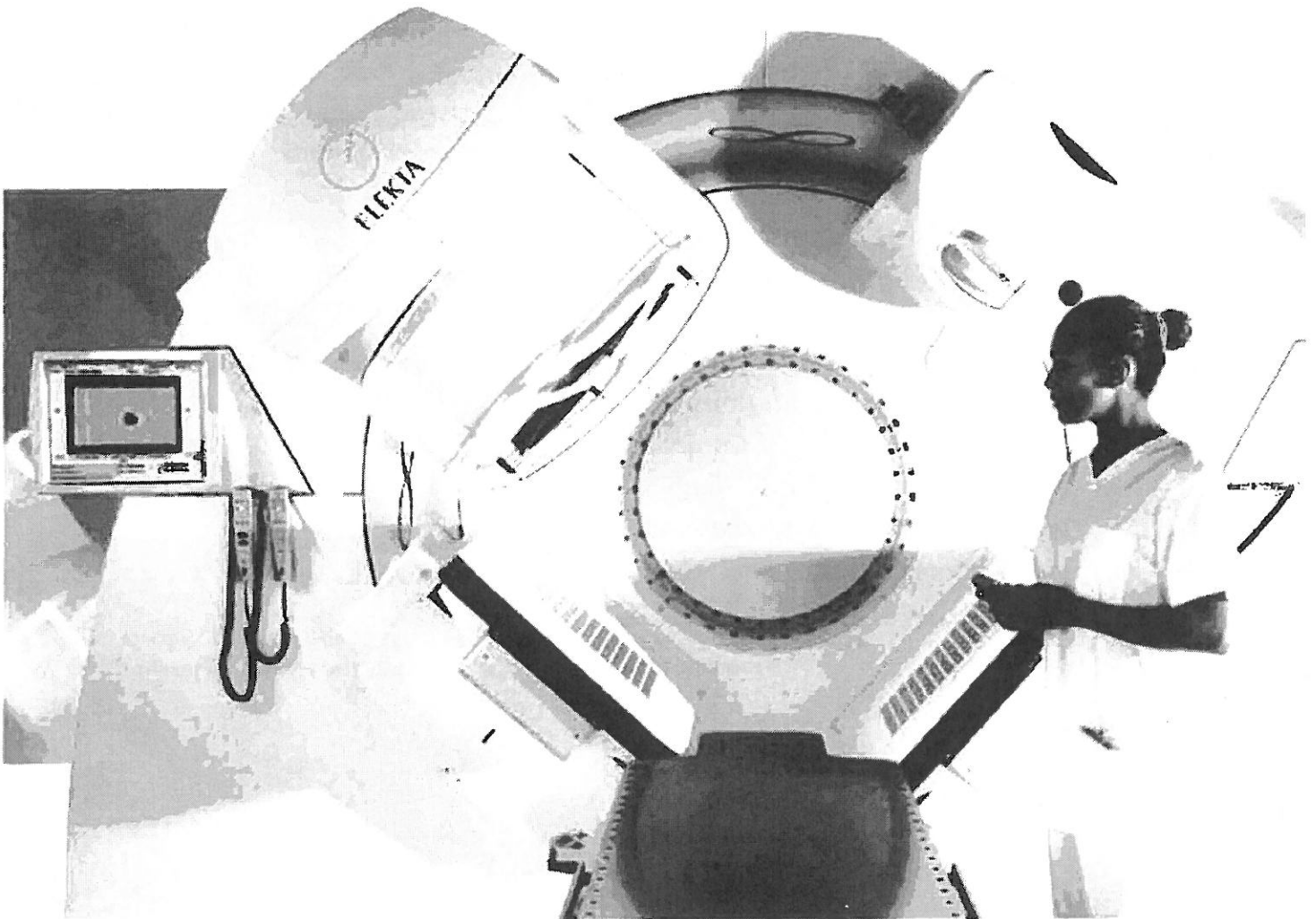




# Do you have the confidence to increase conformance and speed without compromising target coverage?

Set yourself apart with comprehensive radiation therapy treatment capabilities from Elekta, the innovator in oncology solutions. Built on market-proven, seventh generation digital technology, Elekta Infinity™ redefines treatment precision, speed and control. It is a fully integrated treatment system that allows you to personalize your imaging and treatment

workflows. For your patients, Elekta Infinity delivers precision dose conformance, fast treatment speed and ultra-low dose safeguards. For your treatment team, this highly responsive, intuitive treatment system frees you to focus on patients and benefit from efficient workflow. Using Elekta Infinity, the freedom to deliver superior treatment results is now in your hands.



## Why Elekta Infinity?

Volumetric intensity modulated arc therapy (VMAT) delivery with single or multiple arcs for efficient dose distributions

Improve conformance and speed without compromising target coverage

Advanced 2D, 3D and 4D X-ray volume imaging (XVI) tools

High-resolution beam shaping, with seamless field delivery and rapid leaf-speeds

Scalability for easy migration to next-generation treatment planning systems

SYNERGISTIQ™ – an intelligent single point option which aids IGRT workflow

Seventh generation integrated digital control system with proven performance and safety

Real-time assurance that the intended dose is delivered as precisely as it was planned

Guaranteed up-time and performance with a 20-year waveguide warranty.

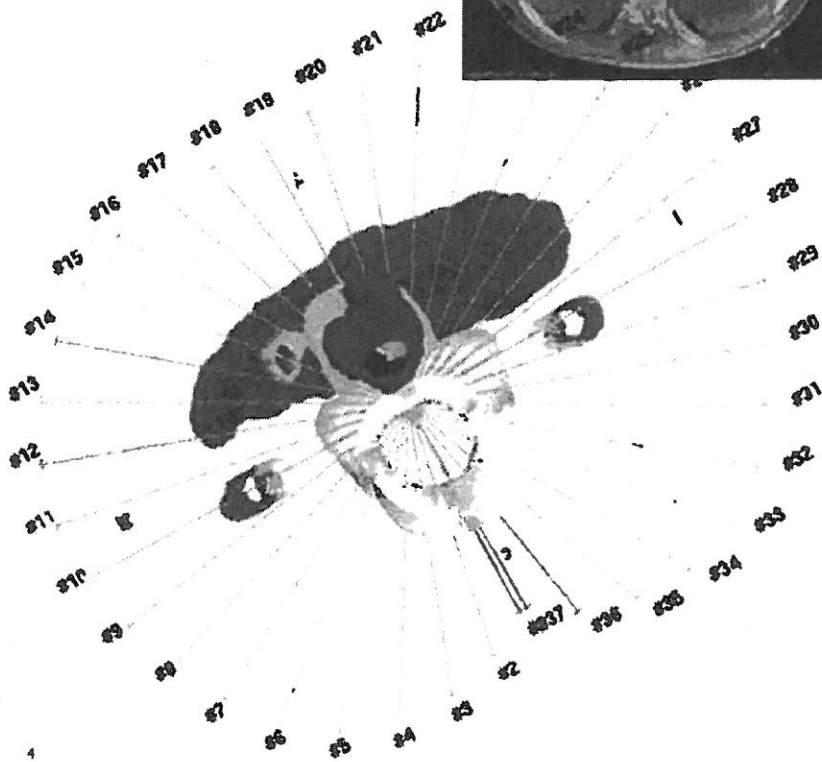
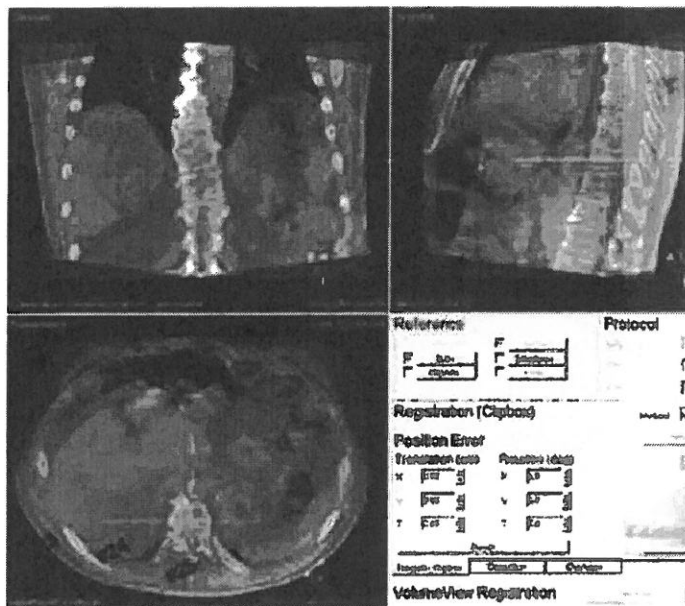
*Treatment was delivered perfectly with Elekta Infinity. I can tell you the therapists were absolutely thrilled and immediately had numerous recommendations of patients they thought would benefit from VMAT, and that was based primarily on the time efficiency of delivery.*

David R. Asche, MS, Director of Physics and Engineering  
RAS Radiation Oncology Centers  
Sacramento, CA USA



# Outstanding flexibility

Elekta Infinity™ with VMAT gives you the flexibility to dynamically control multiple treatment parameters while the beam is on and rotating. For the first time, you can tailor treatment plans to optimize the dose around a tumor. Elekta Infinity achieves helical-like target coverage with better sparing of surrounding healthy tissue. Elekta Infinity can optimize the accuracy and speed of delivery by simultaneously manipulating the gantry position, gantry speed, MLC leaves, dose rate and collimator angle.

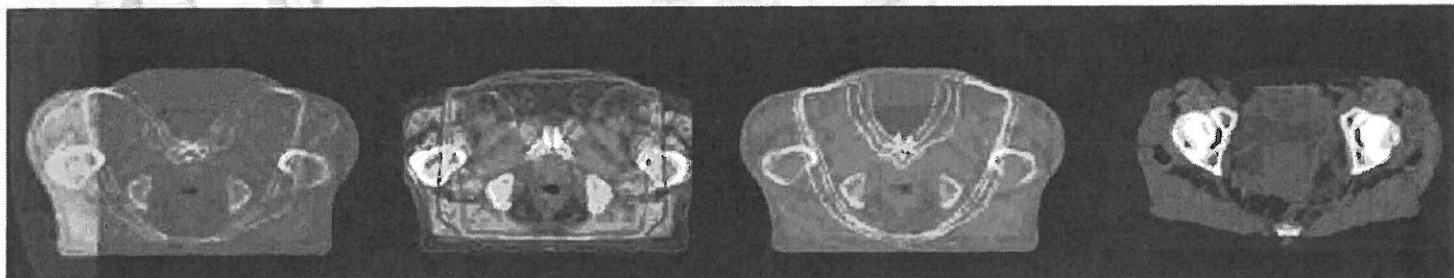


## See Before Treating

Elekta VolumeView™ imaging is integrated into Elekta Infinity, enabling you to routinely confirm target and organ at risk positions immediately before treatment. You can quickly confirm size, shape and position of the target volume compared to plan, as well as the position of critical adjacent structures.

*Elekta Infinity will give us a competitive advantage over other centers in our area, additionally, the ability to treat with the highest degree of accuracy will benefit our patients tremendously.*

Kyle Antes, MS, Director and Chief Physicist  
Presbyterian Cancer Center  
Dallas, TX, USA



**Choose Your Approach**

Elekta Infinity offers you a choice – use a single arc or choose multiple arcs to optimize the VMAT plan. For many cases a single-arc VMAT plan may be sufficient to achieve the desired dose distribution.

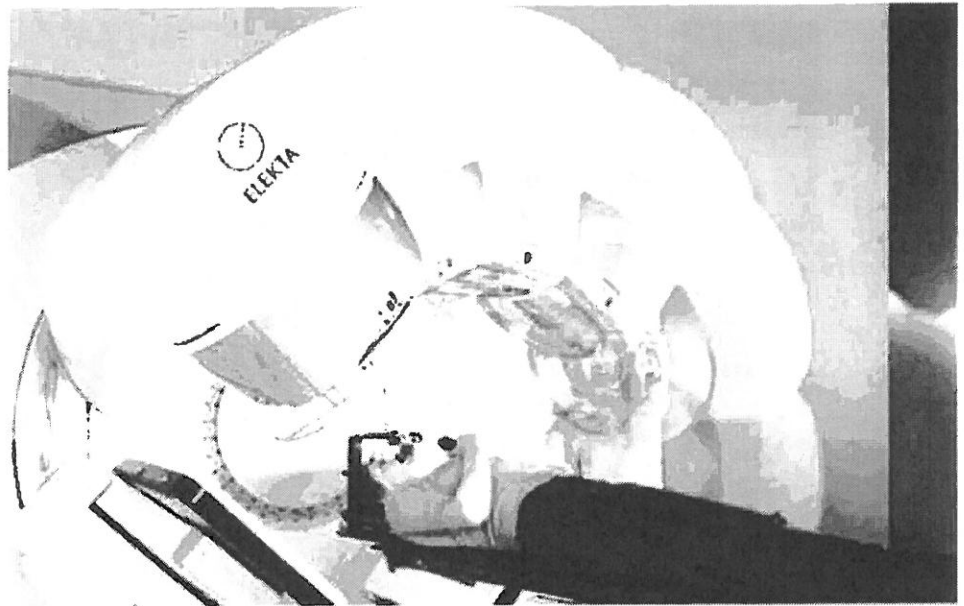
For complex anatomical sites a multiple-arc VMAT plan can deliver superior target coverage while sparing healthy tissue and adjacent critical structures. The clinical advantages of either multiple- or single-arc VMAT deliveries are enhanced by the use of non-coplanar treatment techniques.

**Less Overall Radiation**

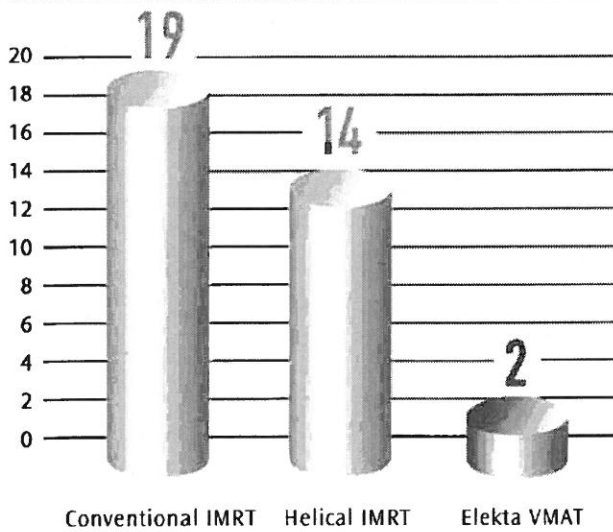
Elekta Infinity with VMAT requires significantly fewer MUs than conventional techniques, reducing total MU delivery by up to 50%. VolumeView™ imaging also delivers high precision localization at ultra-low doses, allowing you to confidently image every day without fear of unnecessary risk to patients.

# More quality time

The less time a patient spends on the treatment table, the better. Shorter treatment times not only improve patient comfort, but also reduce the inaccuracies resulting from patient movement during treatment delivery – speed is an essential element of accurate treatment.



**Typical complex treatment time (minutes)**



## Totally Targeted Minutes

Elekta Infinity™ dramatically reduces treatment delivery time – to less than two minutes in some cases and with integrated imaging and highly conformal VMAT delivery, you can perform most treatment sessions in five minutes or less.

*Elekta Infinity™ equipped with Agility™ makes it possible to perform state-of-the-art image-guided treatment for a large variety of patients. The high performance of Agility and VMAT at CVDR not only offers reduced treatment times, minimizing the uncertainties due to interfractional motion, but is also a benefit for increasing patient flow at the accelerator. Patients will also benefit from the more precise adaptation to target volumes and thus increased sparing of organs-at-risk.*

Bjarke Mortensen, M.Sc., Head of Medical Physics  
Vejle Hospital  
Denmark



#### **Fast and Accurate**

Volumetric imaging delivers high-quality images at ultra-low doses, so you can quickly and confidently image every day before treatment. In three minutes or less, you can verify patient position, pinpoint the target and visualize adjacent critical structures. With quick, efficient treatment delivery, patients are less likely to move, which improves accuracy while limiting the whole-body dose of radiation they receive over time.

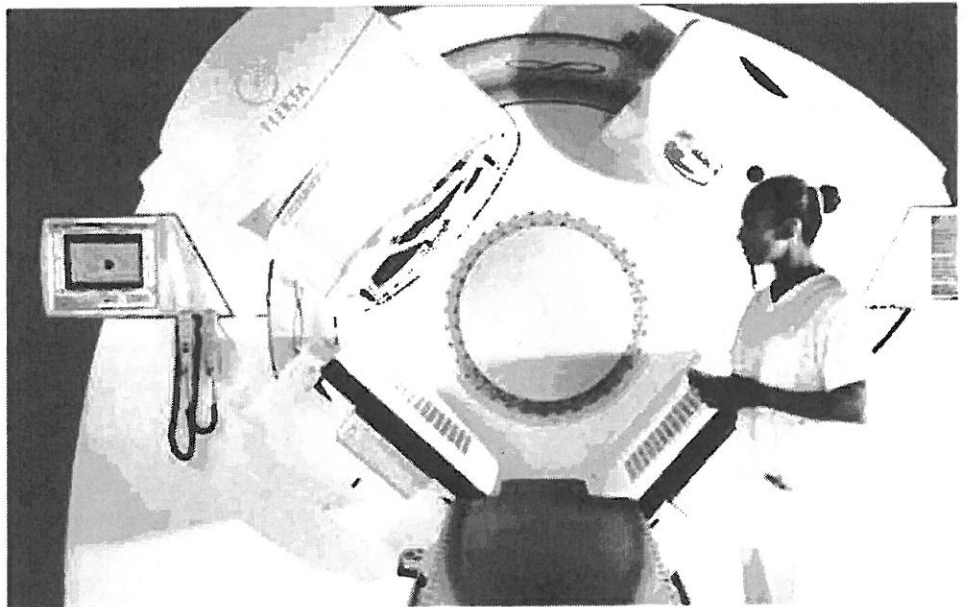
#### **More Flexible Time**

Reducing the time each patient spends in the treatment room increases the opportunity to treat more patients per day. Elekta Infinity gives you the opportunity to bring flexibility to your clinical schedule.

\*Agility is not available in all markets

# Every step enhanced

With ultra-low dose and rapid beam shaping, Elekta Infinity™ delivers radiation only where you place it. And Elekta Infinity protects patients with real-time, point-to-point monitoring. You can be confident of safeguarding surrounding tissue and reducing the risks associated with radiation. Elekta has always focused on optimizing every step of the care process so that you can focus on what matters most - patient care.

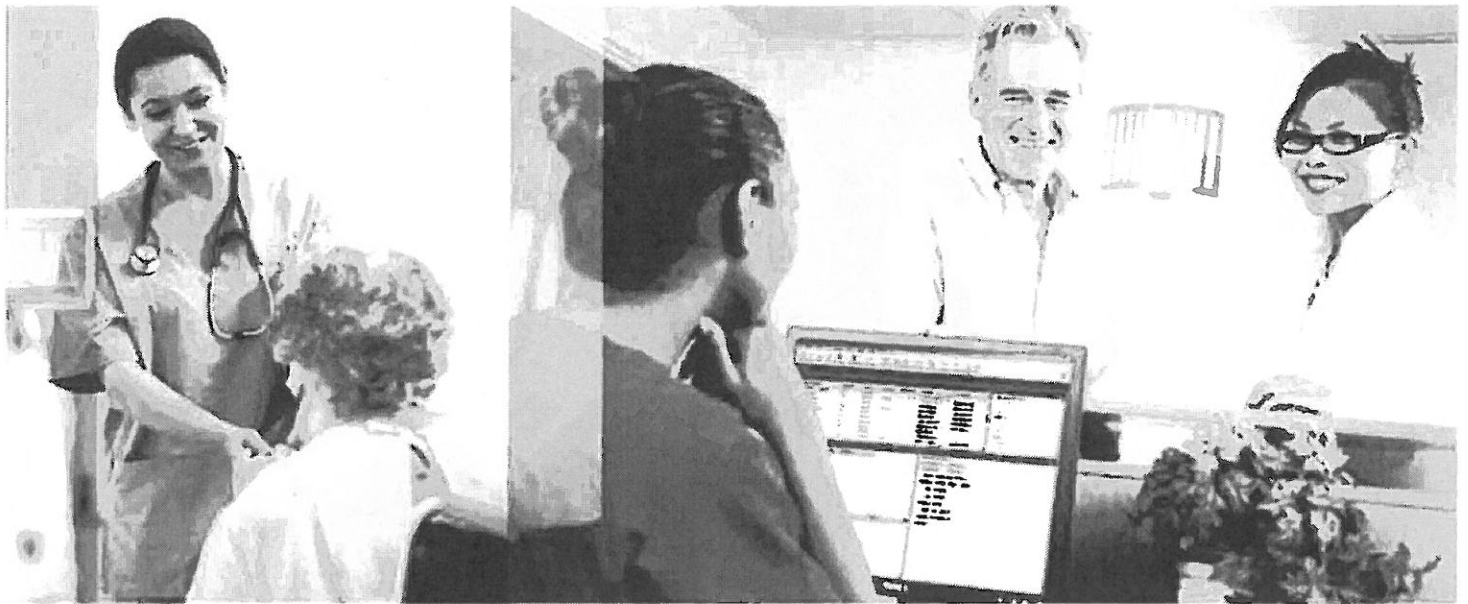


*We have found that for complex cases the use of multiple arcs allows us to achieve a more uniform dose in the target and enables improved sparing of critical structures.*

David Shepard, PhD, Director of Medical Physics  
Swedish Cancer Institute  
Seattle, Washington

## **Above All Else – Safety**

The integrated beam shaping of Infinity is designed for the needs of modern treatment techniques such as VMAT. It limits interleaf and overall patient plane leakage for lower dose volumes to critical structures. In addition, advanced digital monitoring technology in the Elekta Infinity control system constantly tracks all delivery parameters during treatment. Combined with completely machine-independent verification through MOSAIQ® image-integrated oncology information system (OIS), you can be confident that treatments are delivered exactly as planned.



**On Time – Not Overtime**

The speed and precision of Elekta Infinity help you complete scheduled treatments on time. All imaging, planning, treatment and OIS capabilities are integrated with Elekta Infinity, enabling your team to quickly and easily move from one step to the next. A built-in workflow manager streamlines treatment sessions, enabling everyone on your team to focus on the patient and treatment – instead of the technology. Now you can go home on time and minimize overtime requirements.

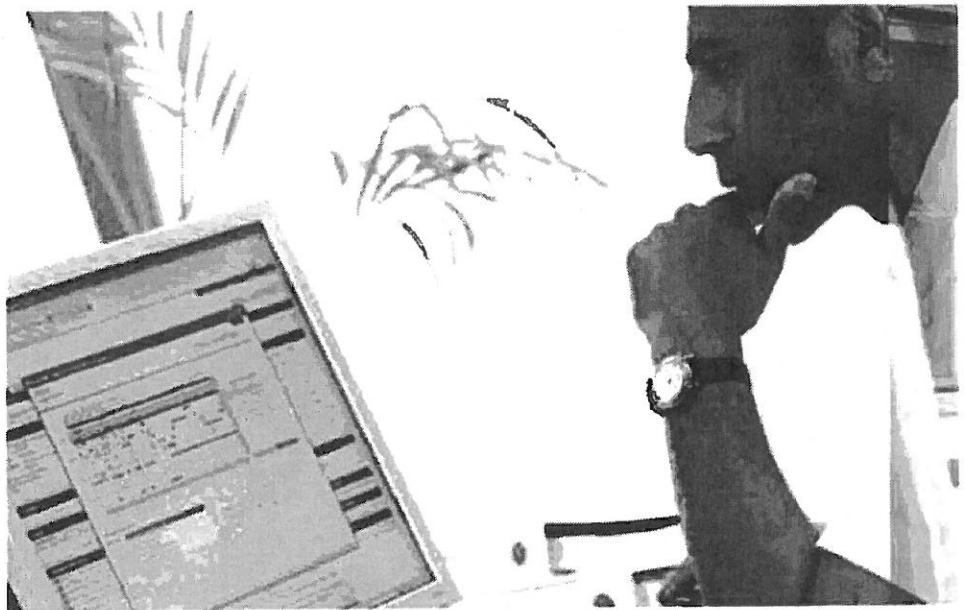
**Integrated from Start to Finish**

The powerful OIS fully integrates workflow for the entire clinical and administrative staff. This includes comprehensive EMR systems that facilitate communication, increase productivity and elevate efficiency to an entirely new level – from start to finish.



# Elekta Services

At Elekta, we believe our job doesn't end with your selection of our products. We are committed to help you in the fight against cancer by providing comprehensive service support packages, upgrade opportunities and a broad range of Training and Education Programs tailored to your organization's needs both now and in the future.



## **Education and Training - Learning for Life**

Harnessing innovative, blended learning solutions, Elekta offers flexible, comprehensive programs that support clinical practice, specifically aligned and customized to the needs of your department.

- Over 30 years of global collaborative experience with expert training support teams, clinical consultants and partner sites provides complete clinical confidence
- Strategic, targeted training brings outstanding clinical availability, greater efficiency, competence and quality to patient care
- Understanding your needs and requirements ensures offering you the right training, in the right format, at the right time
- Access to Elekta technical expertise via either our help desks or Elekta IntelliMax™

Some Services may not be available in all markets. Please contact your local Elekta office for more details.

- **Implementation Services** – innovative installation support and commissioning
- **Service & Support Packages** – comprehensive packages tailored to your requirements
- **Remote Services** – increasing clinical availability
- **Quality Assurance** – integrated solutions enhance confidence throughout treatment workflow
- **Upgrades and Accessories** – rapid technology acquisition to extend clinical practice
- **Consulting Services** – audit and advice for improved operational outcomes
- **Financial Solutions** – simplify access and procurement of latest technologies



### **Enhanced Clinical Availability**

Through combining innovative technology solutions with effective collaborative programs and expertise clinical availability is increased.

- **Implementation Services** rapidly get your unit to clinical readiness.
- **Elekta Remote Services**, powered by Elekta IntelliMax, increase servicing efficiency through secure remote access, monitoring, diagnosis and online fix capabilities. Clinical availability is increased without compromising patient confidentiality.
- **Planned Maintenance programs**, established in collaboration with customers, release significant amounts of machine time, potentially halving the time equipment is offline. More patients can be treated or other activities can be undertaken during clinic hours, thereby best utilizing stretched financial resources.

A human care company, Elekta pioneers significant innovations and clinical solutions for treating cancer and brain disorders. Elekta provides intelligent and resource-efficient technologies that improve, prolong and save patient lives. We go beyond collaboration seeking long-term relationships built on trust with a shared vision, offering confidence to healthcare providers and their patients.

[www.elekta.com](http://www.elekta.com)

*Human Care Makes the Future Possible*

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Quotation:2014-66488-SC  
April 19, 2017



Oncology | Brachytherapy | Neuroscience | Software | Services

Elekta is pioneering significant innovations and clinical solutions for treating cancer and brain disorders.

We provide intelligent and resource-efficient technologies that improve, prolong and save patient lives.





Quotation Number: 2014-66488-SC

Quotation Date: August 29, 2014

Valid Until: July 31, 2017

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Elekta is pleased to submit the following Quotation for the products, software licenses, and/or services described herein at the prices and terms stated.

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**Total Offer Price:** \$1,950,000.00

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*The price under this Quotation reflects a discount of \$5,058,959.13 USD. For U.S. customers, this purchase is subject to the discount provisions of the federal anti-kickback statute, 42 U.S.C. § 1320a-7b(b), and the discount safe harbor regulations at 42 C.F.R. § 1001.952(h). In accordance with such provisions, Customer shall fully and accurately report all prices paid net of discounts where appropriate, and as appropriate, in the costs claimed or charges made under any Federal or State healthcare program, and provide information upon request to Medicare, Medicaid and other applicable federal and state health care programs on all discounts and price reductions received from Supplier.*

Subject to Elekta, Inc. Terms and Conditions or those previously negotiated.

State, local, VAT and other taxes, and import/export licenses are not included in this Quotation



Quotation Number: 2014-66488-SC

Quotation Date: August 29, 2014

Valid Until: July 31, 2017

## Scope of Supply

Qty	Description	License Term
49	Customer consulting services	NA

Qty	Description	License Term
1	Connectivity kit including the RTD and Elekta delivery platform, interface to Elekta MLC/IMRT, interface to ViewGT electronic portal imaging device and connectivity to the XVI including volumetric imaging.	Perpetual
1	Interface license that supports VMAT	Perpetual
1	Consolidates and synchronizes MOSAIQ and XVI.	Perpetual
1	DUAL MONITOR OPTION FOR SYNERGISTIQ PC	NA
1	DICOM Object Management Tool  Core module MOSAIQ Data Director. Provides standards based, full fidelity storage for all DICOM objects + DICOM RT. Provides non-DICOM storage support for many file formats + highly configurable data storage, migration and organization rules for both.	Perpetual
1	Access to data from DICOM sources (5 Per Core DICOM License)  DICOM Data Connectivity including access to imaging devices, treatment planning systems, DICOM-based data generation devices.	Perpetual
1	Contract pass-through 3rd party product. Includes: 1 x ACS4001A-R2      Black Box ServSwitch Single DVI-D CATx KVM Extender, USB 1 x A3L980-150-BLUS      Belkin CAT6 150' patch cable, RJ45 1 x 26911      Cables to Go DVI-D M/M Display Cable - 6.6 ft	NA
1	Contract pass-through 3rd party product. Includes: 1 x C9V76A8#ABA      HP EliteDisplay E221 21.5-inch LED Backlit Monitor	NA
1	Contract pass-through 3rd party product. Includes: 1 x KF885AA#ABA      HP USB MOUSE AND KEYBOARD KIT	NA



Qty	Description
1	<p><b>Elekta Synergy Site Marketing Guide</b> Elekta's Synergy Site Marketing Guide provides a comprehensive array of marketing support and resource materials to help you cultivate your investment. Following is a content overview of the guide:</p> <p>I. Binder Elekta Synergy® Site Marketing Guide Contains a comprehensive description of activities and suggestions to develop, implement and manage a marketing campaign for your new Elekta Synergy® system, as well as sample materials that can be easily customized by a center.</p> <p>II. CD-ROMs CD-ROM #1 - 3 Elekta Synergy® Site Marketing Templates &amp; Materials The CD-ROMs contains PowerPoint Presentations, brochures and advertisement templates to help your center market to the patient populations as well as direct mail templates and press release templates to assist in marketing to referring physicians and product photos which can be used to produce brochures, patient education pieces, advertising, etc.</p> <p>III. Folders Folder # 1 - Welcome to Elekta, includes basic information about the Site Marketing Guide, Elekta Synergy® Image Guided Radiation Therapy, and background information on Elekta. Folder # 2 - Education and Training and Users Meetings, includes up-to-the-minute information on the biannual Elekta Oncology Users' Conference and information on Elekta's extensive training and education courses. Folder #3 - Customer Marketing Samples, containing samples from existing centers to help spur creativity or provide background information for your center's informational materials.</p>
1	<p><b>Power Distribution Unit for Elekta® Linear Accelerator - 480 Volt Input</b> The PDCU incorporates a transformer, output circuit breakers, filtering for high frequency noise, distortion, and transient pulse suppression, in one cabinet. This reduces site preparation costs and complexity for the customer.</p>
1	<p><b>Medical Gases SF6 for Installation and Service</b> Includes: - 44-liter cylinder for SF6 gas - 115 lbs of SF6 gas - Regulator - Delivery</p>
1	<p><b>Medical Gases Nitrogen for Installation and Service</b> Includes: - 16-liter cylinder for Nitrogen (N2) gas - Nitrogen (N2) gas - Regulator - Delivery</p>
1	<p><b>Close Circuit TV System-Color</b></p>
1	<p><b>Intercom system for patient and radiographer communication</b> The MP-S Aiphone System consists of : 1. Single Master Station located in the Treatment control station room for the Radiation Therapist use.</p>



Quotation Number: 2014-66488-SC

Quotation Date: August 29, 2014

Valid Until: July 31, 2017

2. Substation - This will be mounted on the wall in the Treatment room. The substation is hands free and will carry the patient's voice back to the Master Station.

3. A power supply, 24V transformer, and 100 feet of shielded cable

1 **Electron Beam Field Shaping System**

For use with Electron applicators from Elekta and allows the user to easily provide Electron Beam field shaping. The system comprises:

- A Universal leveling template with an adjustable arm for securing styro-foam inserts- Set of five (5) rubber molds compatible with Elekta Electron applicators
- 6cm x 6cm
- 10cm x 10cm
- 14cm x 14cm
- 20cm x 20cm
- 25cm x 25cm
- Provided as part of the system is one (1) Hot Wire Cutter.

1 **Hook and Latch Magnification Graticule**

Solid Frame Port Film magnification graticule that attaches directly to the linac, taking the place of the coded shadow tray, thus providing more clearance between the patient and the accessory.

Used in treatment verification for situations where simultaneous fitment of blocking tray is not required.

1 **Open Air Graticule**

The Open Air Graticule is intended to be used for Radiation Therapy to project a scale of defined increments on port film images which can aid in treatment setup and verification.

The Open Air Graticule does not require the use of a shadow tray holder and can be attached directly to the head of the Precise Treatment System or SL Linac. It consists of two wires delineating the X & Y axis of the treatment field. This model of graticule is ideal for MLC customers and especially those using Elekta's iView & iViewGTTM. Because the open air graticule has a minimal transmission factor, with Physic's approval, the customer does not have to re-enter the treatment room after the port film to deliver the treatment. Please see product User manual for specific treatment information.

1 **Elekta® - IGRT Clinical Training Course**

To provide clinical understanding of the use of 4D image guided radiation therapy and give practical guidelines in the use of Elekta linac.

Content

- Introduction to IGRT - clinical experience and benefits
- General clinical workflows
- Image acquisition - calibration and basic QA
- Data communications (TP-XVI)
- Image registration
- Set-up deviation handling - decision rule - table correction
- Protocol - correction of error
- Practical workflows (on/off-line)
- Lectures on different clinical indications (pelvis, lung, head & neck and breast)
- Practical hands-on
- QA sessions and planning

Pricing Includes:

- Tuition for one user

Pricing Does Not Include:





Quotation Number: 2014-66488-5C

Quotation Date: August 29, 2014

Valid Until: July 31, 2017

- Airfare
- Hotel
- Travel related expenses

Training centers and duration 2-3 day course at:

- The Netherlands Cancer Institute (NKI/AVL), Amsterdam, the Netherlands
- Princess Margaret Hospital, Department of Radiation Oncology, Toronto, Canada
- Swedish Cancer Institute, Seattle, Washington, USA
- Or an alternate collaborating training hospital.

Target group

- Radiation Oncologists
- Physicists
- Radiation Therapists/Radiographers

Pre-requisite: None

For further information please contact: [info.education@elekta.com](mailto:info.education@elekta.com)

Courses are available for twenty-four (24) months after Acceptance or first clinical use, whichever occurs first.

**1 Clinical academic course: SBRT**

**Objective:**

This advanced clinical training program is designed to present the processes required to implement Stereotactic Radiation Therapy (SRT) / Radiosurgery (SRS) utilizing Elekta Axesse™ and other Elekta linear accelerators stereotactic capabilities.

**Target groups**

Radiation Therapists/Radiographers  
Dosimetrist  
Radiation Oncologists  
Physicists

**Content:**

Understand dose selection, fractionation and planning techniques  
Become familiar with imaging requirements (pre/post treatment)  
Practice setup and verification  
Observe and discuss delivery of SRT/SRS  
Increase confidence to implement SRT/SRS into routine clinical practice  
Provide theoretical background to Stereotaxy and dose escalation/ hypofractionation  
Demonstrate the use of Elekta SRT systems for target localization  
Practical session in patient setup, positioning and immobilization  
Dose selection, fractionation and planning techniques

**Training centres**

2-day course held at European centre in collaboration with Elekta.  
2-day course held at: Wake Forest School of Medicine, Winston Salem, NC , USA  
Course Director:

Faculty: Dr. Jim Urbanic & William Hinson PhD

**1 Elekta Oncology Engineer Technical Training (EOE) 1**

**Objective**

Basic understanding of both electrical and mechanical operation of:

- Linear Accelerator
- iViewGT & XVI
- Precise Table
- MLCi & Beam Modulator
- Computer Systems



Quotation Number: 2014-66488-SC

Quotation Date: August 29, 2014

Valid Until: July 31, 2017

Linear Accelerator

- Course introduction
- Patient Workflow and Clinical Operation
- Pre-Course Learning Modules
- Machine Geography
- Control Systems
- Interlocks & Supplies
- Isocenter Checking
- Services
- External Systems Overview (including MOSAIQ)
- Machine calibration
- Fault Finding

iViewGT and XVI

- Service support of iViewGT and XVI mechanical systems
- Panel position calibration on iViewGT and XVI

Precise Table

- Safety and Geography
- Calibration and ASU setup
- Principles of Operation
- Corrective and Planned Maintenance
- Trouble Shooting

MLC and Beam Modulator

- Control Systems
- MLC Mechanical Systems
- Beam Modulator Mechanical Systems
- Component Exchange and Fault Finding
- MLC Calibration
- Beam Modulator Calibration
- ACAL Image Based Calibration

Computer Systems Overview and Principles of Operation of:

- Linac Control System
- iViewGT Control System
- XVI Control System

Pricing Includes:

- Tuition for one user

Pricing Does Not Include:

- Airfare
- Hotel
- Travel related expenses

Assessment Three (3) theory assessments

Training center and duration 15-day course at training center in Europe or USA. Target group

- Hospital physicists
- Hospital engineers
- Elekta and distributors

Pre-requisite:

- None

Further information: Contact the local Elekta business unit or representative.

Courses are available for twenty-four (24) months after Acceptance or first clinical use, whichever occurs first.

**1 Elekta Oncology Engineer Technical Training (EOE) 2**

Objective

A competent student will be able to:

Linear Accelerator beam physics

- Measure and adjust photon and electron beam energy, symmetry, and uniformity
- Check the operation of connectivity to an external system
- Conduct logical fault finding methodology



iViewGT and XVI imaging systems

- Setup, calibrate and operate iViewGT to demonstrate image quality
- Setup, calibrate and operate XVI to demonstrate 2D and 3D image quality

Content:

Linear Accelerator beam physics

- Control systems- Measurement techniques
- High tension and RF
- Beam energy
- Beam transport
- Electrons
- Fault finding

iViewGT and XVI imaging systems

- iViewGT Setup and Bad Pixel Map
- XIS Software Operation
- iViewGT Initial Image Setup, Multilevel Gain
- XVI Imaging Chain, Initial Image Setup and Bad Pixel Map, Multilevel Gain, flexmap, Volume View and Registration
- KV Generator

Pricing Includes:

- Tuition for one user

Pricing Does Not Include:

- Airfare
- Hotel
- Travel related expenses

Assessment:

- Two (2) theory assessments

Training center and duration 13-day course at training center in Europe or USA. Target group includes:

- Hospital engineers
- Elekta and distributors

Pre-requisites:

Completion of Elekta Oncology Engineer (EOE) 1 followed by at least four months experience on an Elekta digital linear accelerator or exemption test pass.

Further information: Contact the local Elekta business unit or representative.

Courses are available for twenty-four (24) months after Acceptance or first clinical use, whichever occurs first.

5000 **Customer Travel Support**

Funds that are granted for customer travel, meals, and expenses to industry related activities (e.g. ASTRO attendance, IGRT training, local symposia, etc.). This fund is limited to the amount shown and must be distributed within 24 months after equipment acceptance.

1 **40kW kV generator**

The Elekta Synergy® System XVI has an integrated 40kW kV generator which provides multiple setting control via the XVI software. Acquisition parameters are configured within the Preset protocol function in the XVI software which is user configurable. The generator and X-ray tube have been optimized for the 3D VolumeView™ imaging, as well as radiographic type exposures for PlanarView™ and MotionView™.

1 **6 MV Low Energy Photon**

1 **10 MV Mid Energy Photon**

1 **15 MV High Energy Photon**



Quotation Number: 2014-66488-SC

Quotation Date: August 29, 2014

Valid Until: July 31, 2017

1 **6 MeV Electron Energy**

1 **9 MeV Electron Energy**

1 **12 MeV Electron Energy**

1 **15 MeV Electron Energy**

1 **18 MeV Electron Energy**

1 **Factory Data Match**

The option of matching one or more new Elekta® machines to each other and/or to an Elekta® machine already installed on a customer site.

The match is carried out during production of the new machines and the match is made to the factory data recorded in production for the existing Elekta® machine.

1 **Wedge Factor Match**

The option of matching the Wedged profiles and Wedge output factors of one or more new Elekta® machines to each other and to an Elekta® machine already installed on a customer site.

The match is carried out during production of the new machines and the match is made to customer data supplied from the existing Elekta® machine.

1 **DICOM CT export license**

This license enables the customer to export the VolumeView™ images acquired with the XVI as DICOM CT images to an external system such as a third party treatment planning system.

1 **Automated DICOM CT export license**

An optional automated DICOM CT Export license for XVI reconstructed images.

This DICOM export license allows the user to send post reconstruction XVI images to a configurable destination automatically upon acceptance of the XVI images.

1 **DICOM RT Image Export**

Manual DICOM Export of PlanarView™ Images.

This license supports the manual export of PlanarView™ images into the MOSAIQ software.

Within MOSAIQ 'Setup Intelligence' functionality, images can be automatically matched using curve, point manual or automatic grey value registration.

1 **Auto DICOM RT Image Export**

Automatic DICOM Export of PlanarView™ Images

This License supports the automatic export of PlanarView™ images into the MOSAIQ software, using a DICOM RT Image Standard.



Within MOSAIQ 'Setup Intelligence' functionality, images can be automatically matched using curve, point manual or automatic grey value registration.

**1 SYNERGISTIQ Software License**

Enables the XVI functionality to support advanced workflows available with SYNERGISTIQ.

SYNERGISTIQ integrates MOSAIQ and Elekta Synergy into a consolidated and synchronized user interface that brings together, in a coordinated manner, the various systems that are required for Image Guided Radiotherapy.

**1 Software Media Pack, SYNERGISTIQ Clients**

**1 Symmetry™ License**

4D Acquisition, In line Reconstruction and Registration

Symmetry™ provides acquisition and in line reconstruction of 4D volumetric data, utilizing unique patented technology for sorting each projection image into a phase based bin. This sorting occurs by reviewing the moving anatomy within the projection images and calculating a respiratory trace directly from the internal anatomy. No external surrogates are required in this process.

Following reconstruction, Symmetry™ includes an optimized workflow for registration purposes. Each reconstructed phase of the respiratory cycle is matched to a 3D reference image automatically. Following registration, the user can review the results quickly and efficiently due to an optimized software view. Correction vectors are automatically calculated to position the tumor in either the average or the exhale position.

**1 3D Shaped Registration Region of Interest**

The 3D Shaped Registration Region of Interest can be generated from any structure imported from the Treatment Planning System, or created manually using tools in the software.

This allows generation of a 3D registration volume which conforms to anatomical structures.

**1 Critical Structure Avoidance**

Registration of a Clipbox and Shaped Registration Region of Interest.

Critical Structure Avoidance allows registration of two separate areas of anatomy, utilizing both the Clipbox and the Shaped Registration Region of Interest. XVI software will calculate the relationship of both areas of anatomy to the proposed correction vectors and alert the user if the target has moved closer to the critical structures due to anatomical changes. The user can then choose to select a compromise between the two areas, or send the patient for re-planning.

**1 3D Automated Seed Match License**

This functionality employs an optimized 3D registration algorithm to register implanted markers, providing fast, efficient registration without compromising on 3D volumetric information.

**1 Adaptor kit for QA Phantom to iBEAM® /iBEAM® evo Couchtop**

Single ball phantom table top adapter kit.

This attachment supports the single ball bearing phantom which is used to calibrate the Synergy® imaging software to the mechanical isocenter.

**1 Extra Collimators**

Provision of additional XVI collimators for imaging.

Includes:-



VolumeView cassettes: L10, M2, L2

- 1 **XVI Applications Training**  
The 4-day XVI training course (travel time inclusive) provides training for Radiation Therapists in the clinical use of the X-ray Volume Imaging portion of the Elekta Digital Accelerators. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in Radiation Therapy, CT, or Diagnostic Imaging. This course is given at the customer site for a maximum of 4 users.
  
- 1 **Template Matching Software License**  
The template matching option enables the user to compare the portal image with a nominated reference image for any set-up error. The set-up error is measured by matching visible anatomy and the field edge on the referenced image with the portal image. The user can move the templates to provide an image displacement.
  
- 1 **Software License Image Approval**  
This allows the user, assigned with the 'review' permission, to approve or disapprove any image within iViewGT™ or iViewC™.
  
- 1 **Standard Set of Aperture Plate Electron Beam Applicators**  
Field sizes:
  - 6 x 6 cm, SSD 95 cm
  - 10 x 10 cm, SSD 95 cm
  - 14 x 14 cm, SSD 95 cm
  - 20 x 20 cm, SSD 95 cmFitted with spring loaded touch guard, coded end frames and electrical connection to linear accelerator latch mounting system enables easy and rapid attachment.
  
- 1 **Aperture Plate Electron Beam Applicator 25 x 25 cm**  
Fitted with spring loaded touch guard, coded end frames and electrical connection to linear accelerator.  
The X-ray diaphragms are then set automatically to the optimum position.  
A unique hook and latch mounting system enables easy and rapid attachment.
  
- 1 **Independent X/Y movement of table top**  
To save time, in reaching the desired position, this kit allows the X/Y brakes to be released independently.
  
- 1 **Remote Retraction of the iViewGT™ detector**  
This kit allows Remote Retraction of the iViewGT™ detector from the Function Key Pad.
  
- 1 **Precise Table or Pedestal Pit Kit**  
This kit provides the necessary fixings, floor boards and template to install a Precise Table into a custom built Pit or a modified Pedestal Pit.
  
- 1 **iBEAM® evo Extension 650**  
The iBEAM® evo Extension 650 is designed to support the patients upper body and extends off the end of the iBEAM® evo Couchtop by 650 mm, thus allowing for treatment of the prostate in very tall patients.
  
- 1 **Order two sets of pre defined terminated cable kits**  
Pre installation treatment room and Inter bay terminated cable kits



- 1 **Set of manuals**
  
- 1 **Customer Interface Terminal Board**
  
- 1 **20" Flat panel control room monitor**
  
- 1 **IMKM**  
The In-room Monitor and Keyboard function provides the operator with access to all clinical and service functions available at the control console from inside the treatment room.  
Comprising:
  - Cable switching connectors for attaching the in-room monitor to the treatment control system.
  
- 1 **Software license Linac Record to file**  
Optional software to Record Linac Data to file.  
The Software license Linac record to file offers the user the option to configure the Linac (in Service Mode) to send the data to network file rather than to a printer.
  
- 1 **Software License Linac Record**  
The Daily Record Function allows the Treatment System radiation beam information to be recorded on a continuous basis. Every time the beam is turned on it records the incidence: patient treatments or port films. This can be used as a back up for record and verify systems or for billing purposes.
  
- 1 **Extended Service License for Desktop 7**  
Software License providing enhanced features.  
This license allows the user extra service tools/functionality.
  
- 1 **Applications Training for Standard Therapy on the Desktop**  
The 2-day Standard Precise Desktop Course (travel time inclusive) provides training for 4 Radiation Therapists in the clinical use of the Precise Desktop Digital Linear Accelerator. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in Radiation Therapy.
  
- 1 **IntelliMax™ Intelligent Agent**  
This License provides only the IntelliMax™ Intelligent Agent license. Any provision of services relating to the use of data collected by the Agent (via the IntelliMax™ Enterprise) should be negotiated as part of the Service Contract between the Customer and the BU/distributor.  
IntelliMax™ Intelligent Agent requires a dedicated PC. Provision of this PC must be negotiated between the Customer and the Elekta BU/Distributor. A specification of the PC can be obtained from your Elekta representative.  
IntelliMax™ Intelligent Agent also requires a direct internet connection to the Agent PC opening secure port 443 (https).
  
- 1 **Elekta Infinity System Cover Set**
  
- 1 **XVI Hardware**  
The Imaging capability of Elekta Infinity System enables the clinician to take full advantage of IMRT dose delivery without the need for implanted target surrogate markers, due to the high visualization capability of all soft tissue structures, target volume and critical

structure position. Fast, automated registration of the VolumeView image with the reference CT planning data allows non-invasive image guided treatments.

**1 XVI TFT Monitor**

Specification for high resolution 17" Flat Panel Monitor.

The TFT monitor will fit neatly into the linac control area.

It is used to display the high resolution images acquired on XVI, from PlanarView™, MotionView™, and VolumeView™.

**1 Table ASU License**

In addition to normal linac ASU, the user is able to separately request the auto setup of the table isocenter from inside and outside the room.

**1 Segmental VolumeView™ / MotionView™**

With XVI R4.5.1 and above provides the user with the ability to interrupt and restart VolumeView™ acquisitions using the Function Key Pad.

With XVI 5.0 provides the user with the additional ability to interrupt and restart MotionView™ acquisitions using the Function Key Pad.

Supports kV acquisition during breath-holding procedures by allowing the acquisition of partial volumes for each separate breath hold, with subsequent reconstruction a single image.

**1 Remote Automatic Table Movement License**

Remote Automatic Table Movement License with either XVI or MOSAIQ.

This license enables the user to make the translation correction movements remotely and automatically at the Precise Table. This movement can either take place following a registration as part of an on-line VolumeView™ imaging workflow or the Precise Table can be moved remotely and automatically to coordinates entered into MOSAIQ.

It should be noted that if customers have XVI, they will only be able to have this functionality when using on-line image workflows.

This feature is only available with MOSAIQ when the Linac does NOT have XVI imaging capability.

**1 PlanarView™ - License**

The PlanarView™ license enables the acquisition of static 2D kV images on the XVI system. Images are displayed and can be compared to a reference image.

PlanarView™ thus provides similar functionality to existing orthogonal MV portal images for initial patient set-up. The X-rays of PlanarView™ are produced using kV energy range which results in high quality images at very low doses.

**1 MotionView™ License**

2D fluoroscopic-like imaging

MotionView™ imaging module helps locate targets that move on a high frequency basis. This becomes particularly critical with the use of small treatment fields or in PreciseBEAM® IMRT application. Like fluoroscopy, MotionView™ allows evaluation of patient motion while the patient is in the treatment position for optimum treatment delivery.

Developed to address intrafractional organ motion, MotionView™ allows the clinician to visualize patient organ motion for evaluation of field coverage for optimum treatment delivery. Even when a device such as the Elekta Active Breathing Coordinator™ is being employed, MotionView™ is useful for monitoring other motion in the thorax or upper abdomen.

**1 VolumeView™ License**

3D Volumetric Imaging. Using Elekta 3D volume mode (VolumeView™), clinicians can visualize soft tissue detail in any area of the body.



Elekta VolumeView™ provides volumetric 3D data sets with submillimeter isotropic resolution acquired with the patient in the treatment position.

The system can acquire a complete 3D volume in a single revolution with reconstruction taking place simultaneously with rapid registration against the CT treatment plan image. This allows for optimization of the treatment plan and correction for target shifts due to organ motion and deformation.

The imaging dosage necessary to obtain a VolumeView™ image can be varied depending on the level of contrast required. For prostate imaging, a larger degree of contrast is required to differentiate similar soft tissues in addition to complications caused by low transmission and high scatter, while a VolumeView™ image in the head and neck region would require a lower dose.

**1 Multileaf Collimator Head Cover Set**

**1 iViewGT™ Infinity Hardware**  
Retractable arm for iViewGT™

iViewGT™ provides:

- Rigid and fully retractable slimline detector for maximum accessibility and clearance.
- Large, square active area and wide lateral and longitudinal movement accommodating all patient anatomies.
- Automatic and manual arm movement for efficiency of use.
- Fully interlocked safety features for operator confidence and patient comfort.

**1 MRT 7261, IVIEWGT, XRD, 1640 AL, MV, ROHS, DETECTOR, PANEL**

**1 iViewGT™ PC running release 3.4 SP2**

High performance PC hardware for use on iViewGT™ imaging systems.

Microsoft Windows XP Professional SP2 operating system and iViewGT™ release 3.4 SP2 software pre-installed.

**1 R3.4 SW License for iViewGT™ Portal Imaging System**

Software license for the iViewGT™ portal imaging system

iViewGT™ R3.4 software provides:

- Full image acquisition capability for iViewGT™ customers
- Enhanced image display options offering superior structure visualization. (Enabled with the CLAHE (Contrast Limited Adaptive Histogram Equalization) algorithm)
- Extensive networking capabilities through DICOM
- Automated DICOM export of acquired images
- Sophisticated tool set for efficient image acquisition
- Confident tracking of sophisticated treatments such as IMRT, with fast continuous synchronized imaging
- Enhanced printing for display of images
- Export image log for trend analysis facility

**1 General Function Key Pad**

The Function Key Pad provides the following features:

- MV Start, Interrupt and Terminate
- LED's to indicate radiation on / off status
- Linac Assisted Setup (ASU) – facilitating automatic gantry and diaphragm rotations
- Table ASU – facilitating automatic table translations and isocentric setup
- Imaging ASU – facilitating automatic remote retraction of the iViewGTTM detector

This Function Key Pad has been ergonomically designed to ensure comfort during prolonged ASU periods.

**1 iView™ IMRT Verification Software License**



This software expands existing iView™ functions to verify multiple segment beams for IMRT. The iView™ Image acquisition is triggered automatically and the image taken depends on whether the user selects single, multiple or movie image.

1 **External Portal Imaging Interface**

A mechanism where user and system events in iView™ are sent to an external customized program. Could be used as an interface to third party systems or for analysis of image data.

1 **iViewGT™ Warranty**

1 **iView Installation**

1 **Flat panel monitor for iView**

1 **Laser back pointer assembly**

- Comprising:
- Fiber optic laser back pointer (Class 2 laser)
  - Mechanical mounting kit
  - Laser warning label

For customers requiring a laser back pointer who are purchasing the iViewGT™ as a factory fit or upgrade.

1 **Patient Auto Select Software License**

This enables the prescription selected on the Linac to automatically select or create that patient record on iViewGT™ / iViewC™ using the iCom-Vx protocol. In addition, images will automatically be acquired and stored in the iViewGT™ / iViewC™ database without further operator intervention.

1 **Standard Rigging & Handling**

Basic rigging of Linac to first floor or ground floor location. Elekta will provide the necessary crew to offload, uncrate, rigging and machinery moving required to set system as per plan, and remove debris. Basic rigging excludes use of a crane or rigging down an elevator shaft.

Standard Rigging includes:

- Make one pre-installation site visit and delivery project management.
  - Drill holes for equipment fasteners
  - Supply a 12,000 lb capacity forklift during the off loading procedure
  - Stage and uncrate the linac machine, move all components into the facility, and set as directed.
  - Remove and dispose of all packaging that will not be reused.
  - Transport the base, gantry and beam arm into the facility/bunker on transport trolleys supplied by Elekta.
  - Set the base frame in place (Elekta will level).
  - Set the gantry drum onto the base frame.
  - Set beam arm into the gantry.
  - Install counterweight holder and stack the counterweights.
  - Supply a manual gantry lifting system to perform aforementioned setting activities and all necessary tools.
- Supply a crew, including a rigging supervisor.
- Include the cost of all associated resource and expenses, including related travel time.
  - Complete all rigging activities in a single day.

Standard Rigging excludes:

- Crane service.- Elevator, or shaft deliveries.
- No clear access to the building (exterior).

- Interior obstruction en route to treatment room.
- Any shoring needed to protect the structure from the weight of the system.
- Any shoring and/or plating needed to build temporary dock or landing area for the unit.
- Extra long delivery routes, distances in excess of 150' from offload site to the treatment room.
- Overtime, weekend, premium time, unless Weekend Rigging selected.

additional travel expenses should the project exceed the time allotted in this scope for reasons beyond Elekta or our contractor's control.

additional man-hours, manpower, travel expenses, or equipment required due to delays caused by incorrect site preparation, waiting time, or delays not caused by Elekta or our contractor will be itemized and billed to the customer at then current rates.

**1 Kit, XVI Daily QA Phantom**

Daily QA Phantom for kV and MV projection imaging and kV VolumeView™ checks  
Laser and lightfield coincide additionally  
Spreadsheet for recording and analyzing trend results

**1 DICOM 3.0 software Interface for Image transfer**

The international standard interface protocol for network transfer of medical images.

**1 Combined Interdigitation & CVDR license**

Optional license providing interdigitation and Continuously Variable Dose Rate (CVDR) functionality on MLCi2 and Agility heads only.

This license is applicable to customers who are purchasing a linear accelerator with the Integrity treatment control system. This license is for MLCi2 and Agility systems only. The license is valid for customers requiring interdigitation with an MLCi2/Agility head and dynamic/VMAT delivery licenses.

**1 Applications training for iViewGT™**

The 3-day iViewGT™ training course (travel time inclusive), provides training for 4 radiation therapists in the clinical use of the iView™ imaging system. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in radiation therapy.

**1 Agility Kit**

Agility - fully integrated 160 leaf Beam Shaping Device with fine resolution leaves (0.5 cm wide), Treatment Control System Rack Cabinet and Integrity R3.0 software.

Agility is designed to meet the stringent needs of the rapidly evolving field of high resolution stereotactic radiation therapy and volumetric arc therapy (VMAT), providing high conformance beam shaping for these advanced delivery techniques. It also supports conventional and electron based radiation techniques.

The excellent, clinically demonstrated, physical characteristics of Agility coupled with its ability to interdigitate, produce real clinical advantage when delivering highly conformal, dose escalated beams close to critical structures.

This Kit includes the following components:

- Agility Beam Shaping device
- Agility head covers and touchguard
- Treatment control system Rack cabinet
- Network Security Solution
- UPS
- Agility manual set
- Integrity R3.0 software media kit
- Beam Mu Dose Module



Quotation Number: 2014-66488-SC

Quotation Date: August 29, 2014

Valid Until: July 31, 2017

- Basic service tools

**1 Aglilty - Linac Parts**

**1 Aglilty Upgrade Cable Kits**

Treatment room and Interbay terminated cable kits for Elekta delivery systems upgrading to the Agility Beam Shaping Device only.

**1 Aglilty head covers and touchguard - Non Axesse**

Required for all Elekta delivery systems with the Agility beam shaping device.

**1 Aglilty Service Tool**

Tool to support maintenance of the Agility beam shaping device.

**1 MOSAIQ Sequencer PC**

This option provides a MOSAIQ Sequencer PC that can be mounted in the Agility Treatment Control system cabinet.

**1 Synergy<sup>®</sup> cable reeling**

**1 Elekta Infinity™ System**

Elekta Infinity™ is the definitive Volumetric Modulated Arc Therapy (VMAT) treatment solution.

Volumetric Modulated Arc Therapy (VMAT) combines software and hardware innovations that allow delivery of Volumetric Intensity Modulated Radiation Therapy which enables simultaneous and dynamic movement of MLC while rotating the gantry in combination with varying the dose rate, gantry speed and or collimator angle to deliver a highly conformal dose.

This advanced delivery capability is further enhanced by the inherent Elekta X-ray Volume Imaging System (XVI) included with this system.

Elekta Infinity consists of a dual modality digital accelerator, providing a comprehensive range of both x-ray and electron energies to satisfy the requirements of external beam radiotherapy. The Elekta Infinity Digital Accelerator offers an unrivalled choice of up to three different x-ray energies and up to 9 electron energies. With a low isocentric height (124cm), the Elekta Infinity Digital Accelerator is designed for optimum clinical usability.

Elekta Infinity is remote system diagnostic ready and will function with the optional Elekta IntelliMax™ service monitoring and support system. Elekta IntelliMax™ service monitoring and support system is enabled through software and is available during the original system warranty period or through purchase of an Elekta Advanced Service Agreement.

The Precise Table provides smooth, quiet operation for positioning the patient during clinical procedures. It comprises a vertical lift mechanism, couch base and the control system.

Elekta Infinity includes the iViewGT™ MegaVoltage Portal Imaging System and the XVI (X-Ray Volume Imaging System) for KV based 3-D volumetric imaging.

**1 SYNERGISTIQ Monitor kit**

Specification for Extender/Receiver and cable for a remote monitor.

Required for sites who use SYNERGISTIQ with a remote monitor in the treatment room.

**1 Connexion™ System with all 4 Modules Incl. Extension**

This system contains the Connexion Base Board and all modules:

- Connexion™ Imaging Module
- Connexion™ Central Opening Module with Connexion™ Solid Inlay
- Connexion™ Lateral Opening Module with Connexion™ Short Indexing Bars
- Connexion™ Tennis Racket Inlay
- Connexion™ Tennis Racket Inlay Cover Foils (5 pcs.)

- Connexion™ Head and Neck Module

It also contains a storage solution for the modules, components and a set of iBEAM® Indexing bars. additionally it contains also two iBEAM® evo Extensions.

**1 Response™ Gating Control System for Digital Accelerators**

Response™ provides a seamless interface that supports automated gated treatment delivery for a range of delivery techniques, from conformal to IMRT & VMAT, in combination with validated external triggers and Elekta digital accelerators.

**1 Software License Collation XVI 5.0**

The XVI software offers a fully integrated solution for advanced Image Guided Radiation Therapy techniques on the Elekta Synergy® and Elekta Infinity™ range of machines. 2D, or optional 3D and 4D kV images can be acquired with the patient in the treatment position, at the point of treatment on the Elekta Digital Accelerator. This is mandatory XVI Software. MRT 20261 is also required.

**1 Control System hardware for XVI R5.0**

The XVI control system is a high specification dual processor PC which supports all aspects of the IGRT process including 2D, 3D and 4D kV image acquisition, VolumeView™ reconstruction, and analysis using a suite of advanced registration functionality.

**1 XVI R5.0 Software License**

The advanced XVI license enables efficient streamlined IGRT workflows, including one touch VolumeView™, and fast automated image registration.

This license also includes;

- start/stop MotionView™
- Annotation overlay during MotionView™
- Import master RPS data to XVI (Distributed Imaging)
- HU specification
- optimised presets for dose reduction
- data anonymisation

The advanced Intrafraction Imaging functionality is optional with this software.

The advanced registration functionality such as 3D Automated Seed Matching, Critical Structure Avoidance and Symmetry (4D IGRT) are also optional with this software.

Please note that the SYNERGISTIQ configuration requires additional hardware and software to be ordered from BASS.

**1 Software License Collation XVI**

The XVI software offers a fully integrated solution for advanced Image Guided Radiation Therapy techniques on the Elekta Synergy® and Elekta Infinity™ range of machines. 2D, or optional 3D and 4D kV images can be acquired with the patient in the treatment position, at the point of treatment on the Elekta Digital Accelerator.

This is mandatory XVI Software

Compatible with Desktop 7.01 or higher

**1 Intrafraction Imaging License**

The Intrafraction Imaging license supports the ability to acquire kV images during an MV treatment field delivery, and lets you:

- Make a preset to acquire MotionView™ images for a specified time and then move directly into a VolumeView™ acquisition.
- Make a preset that lets XVI acquire a VolumeView™ during conformal, IMRT, or VMAT MV deliveries. You can examine this data offline to measure intrafraction movement.
- Make a preset to do Intrafraction VolumeView™ and registration during dual arc procedures.

Both 3D and 4D VolumeView imaging will be possible at the same time as MV treatment.  
XVI 5.0 Includes MV scatter correction as image quality of KV images can decrease during intrafraction imaging.

- 1 **In-room Monitor, Keyboard and Mouse**  
Local Procurement Specification
  
- 1 **Room Lasers, Green, Remote**  
Laser patient alignment system, green lines with remote control adjustment.  
Set of 4 Green Room lasers.  
Comprising 3 crosshair and 1 line sagittal laser.  
Featuring extremely fine lines (< 1mm), high precision adjustment at the isocenter and easy to install, stable mounting bracket.  
Inclusive of switchable (110v to 240v) Power Supply and universal mains adaptor and remote hand-held controller.
  
- 1 **Beam Block Tray - Star Pattern**  
Beam block tray with holes in a star pattern.  
Trays are designed with threaded, removable plugs for the coding of each block.  
Specially designed for use with the Elekta shadow tray assembly.
  
- 1 **Clinical academic course: IMRT/VMAT**  
The objective of this clinical program is to present the steps required to implement IMRT/VMAT for routine treatment on Elekta's linear accelerators.  
Target groups  
Radiation oncologists  
Medical physicists  
Dosimetrists  
Radiation Therapists/Radiographers  
  
Content:  
Commissioning the linear accelerator and treatment planning system for IMRT/VMAT  
Acquisition of beam data  
Dosimetry and stability of beam segments of small MU and dimensions  
Methods to establish the appropriate margins for IMRT/VMAT  
Inverse planning methods for IMRT/VMAT  
QA tools for IMRT/VMAT delivery  
Demonstrations performed on Elekta linear accelerators  
2-day course held at: **Mannheim Medical Centre, Germany**  
Course Director: Professor Frederik Wenz  
Faculty: Professor Frank Lohr, M.D., and Volker Stell, M.Sc.



Vision RT Inc  
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**Prepared For:** Shiva Das, Chief of Physics

**Customer:** University of North Carolina - UNC  
 High Point Regional Hospital  
 601 North Elm Street  
 High Point NC 27260

**Date Issued:** 09 May 2017

**Reference:** TTH1601664V6

**Date Revised:** 09 May 2017

**Prepared By:** Trip Thomas

**Email:** tthomas@visionrt.com

**Mobile:**

**Offer Expires:** 01 December 2017

Summary of offer	Site	Qty
AlignRT system for patient setup, surveillance (including advanced treatments) for the Elekta Linac. Includes three camera units and interface to "Response" which allows automated beam hold on the Elekta Linac.	High Point Hospital	1
The AlignRT Real Time Coach is a visual coaching tool to indicate to a patient when their vertical breathing motion and postural alignment are within the user-defined position for delivery of treatment.	High Point Hospital	1

Code #	Description	Qty	Price
ALRT-PS-STD	<b>AlignRT: Real Time Patient Positioning, Tracking and Surveillance</b>	1	<b>Included</b>
	<i>Including</i>		
	AlignRT camera unit	2	Included
	AlignRT workstation; Remote console in control room	1	Included
	AlignRT v.5.x Patient Tracking Software	1	Included
	DICOM RT Import Module	1	Included
	AlignRT calibration plate	1	Included
	PSU for AlignRT HD Camera	1	Included
	Portable device to allow the remote control of key functions of AlignRT software	3	Included
ALRT-AS-STD	<b>Advanced Surveillance</b>	1	<b>Included</b>
	<i>Including</i>		
	AlignRT camera unit	1	Included
	AlignRT software upgrade: 3 camera support	1	Included
ALRT-ELEKTA-RESPONSE	<b>Interface to Elekta's Gating (Beam Hold) "Response" Interface</b>	1	<b>Included</b>
	<i>Including</i>		
	Vision RT's interface to Elekta's Gating (Beam Hold) "Response" Interface to the Elekta Linac. Customer must purchase the "Response" interface from Elekta. See note below. (see note 2)	1	Included
ALRT-RTC	<b>Real Time Coach</b>	1	<b>Included</b>
	<i>Including</i>		
	Real Time Coach: Wireless couch mounted patient feedback unit.	1	Included
Installation and training for all items quoted (see note 1)			

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List price	364,000 USD
Discount	72,000 USD
Offer price	292,000 USD

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\* The above price excludes shipping costs, import duties and any applicable sales taxes.

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If Customer processes a purchase order on or before 01 October 2017, they will receive the specially discounted price of 259,200 USD excluding taxes and shipping costs. By accepting this quotation, Customer agrees to keep this price (the "Discount Price") strictly confidential and agrees not to divulge (nor to permit its employees, officers or any other person to divulge) the Discount Price to any outside third party, including without limitation, MD Buylne and ECRI. If the Discount Price is divulged to any outside third party in breach of this provision then, without prejudice to Vision RT's other legal remedies, the Customer agrees to pay Vision RT the difference between the Discount Price and the standard discounted Offer Price shown above as at the date of this quotation, forthwith on the submission by Vision RT of an invoice for the same. Customer confirms that it understands that the disclosure of the Discount Price could be commercially damaging to Vision RT and agrees to be legally bound by this provision.

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**Notes:**

- 1 Standard or Vision RT modified Product mounting brackets are provided by Vision RT as part of the normal installation of the Product. Any additional mounting or fixing mechanism or construction cost required to use the Product in treatment room(s) shall be the responsibility of the customer
  - 2 (a) There are certain Elekta system pre-requisites for this interface to operate correctly. In order to establish these requirements and any related pricing, please consult your local Elekta sales representative. (b) The interface to "Response" does not yet form part of the clinical release of Vision RT's AlignRT or GateRT software. It will be installed and configured at no additional charge as soon as it is included in a clinical release of the software. (c) GateRT should only be used for respiratory gating for patients that are suitable candidates for respiratory gating in accordance with Elekta's accompanying documents (instructions and guidance). Note that patients with short respiratory cycles may not be suitable candidates for respiratory gating.
- 

**This Quotation is subject to Vision RT's standard terms and conditions of sale (the "Terms and Conditions") as attached. Defined Terms in this Quotation shall have the same meaning as given to them in the Terms and Conditions.**

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Warranty period is 12 months as per the attached Terms and Conditions of Sale.

*Full product support during the Warranty Period and during any subsequent service plan will only be available if the customer provides internet access to Vision RT to allow Axeda support.*

**CONDITIONS OF PAYMENT**

*The terms of payment are as follows:*

- 30% due within 14 days of order confirmation**
- 60% due within 30 days of shipment**
- 10% due within 30 days of completion certificate**





13614 Woodbury Rd. Haslett, MI 48840  
P: 877-704-3838 F: 517-339-1215 Email: [parts@radparts.com](mailto:parts@radparts.com)  
Registered to ISO 9001:2008 Quality Standards

April 22, 2015

To Whom It May Concern

RadParts has contracted with High Point Regional Health to purchase the Linear Accelerator Varian Clinac 21SCX serial number H272140 currently located in the Philips Cancer Pavilion at High Point Regional Health and to remove the unit from the State of North Carolina. The purchased unit shall not be resold within the State of North Carolina without a separate prior CON approval being required by any purchaser, and RadParts agrees to make evidence of such approval a condition of executing any future sale contract of this machine.

Sincerely

A handwritten signature in black ink that reads "Tony J Richardson". The signature is written in a cursive style with a large, stylized initial "T".

Tony J Richardson  
VP - Director of Sales

Direct Tel # 410-371-4777



EQUIPMENT PURCHASE, REMOVAL AND DISPOSAL AGREEMENT  
RAD04132015-001R

April 13, 2015  
High Point Regional Health Center  
801 N. Elm St.  
High Point, NC 27262  
Attn: Danette Canup 336-876-8038

This AGREEMENT is made between Radparts.com, Inc., 13614 Woodbury Rd., Haslett, MI 48840 a Pennsylvania Corporation ("RADPARTS") and High Point Regional Health Center, 801 N. Elm St., High Point, NC 27262 ("SELLER"), on April 20, 2015. WHEREAS, Seller desires to sell to Radparts and Radparts desires to purchase from Seller the Equipment described below upon the terms and conditions set forth herein.

- EQUIPMENT:** Verter 2100SCX SN#2140 with 120 MLC, Portal Vision and Spare Parts. The system is in good condition and is currently installed with power running to the system. System, service records, system manuals, all system spare parts, Phenoms, system software disks, and all system workstations are included. The VEO base frame removal is included.
- PRICE:** TOTAL SALE PRICE OF THE USED EQUIPMENT IS US\$11,000.00USD, excluding any sales/state taxes, if applicable.
- PAYMENT TERMS:** The payment in full will be due upon removal of Equipment.
- REMOVAL COSTS:** RADPARTS is financially responsible for the costs incurred in the removal of the Equipment, including but not limited to providing labor, rigging, packing, shipping, and all bonding and insurance. RADPARTS is responsible for any damage to Equipment during the de-installation process. SELLER is responsible for providing a clear path for the removal of Equipment, and for any extraordinary costs required for removal including any construction costs, floor shoring, demolition, reconstruction, elevator-involved removals, crane rentals or delays in preparing facility for removal.
- REMOVAL DATE:** RADPARTS will work in good faith with seller to accommodate SELLER's removal date constraints (two to three week notice requested).
- BASE FRAME:** VEO base frame shall be left in place. Remover will leave room "swept clean".
- GENERAL TERMS AND CONDITIONS:** The Removal and Disposal of the Equipment is subject to the General Terms and Conditions attached hereto and incorporated herein by reference.

Seller agrees to sell the equipment described above and by signature indicates acceptance in its entirety of all terms and conditions set forth in this Agreement. This offer is valid for ten days.

RADPARTS  
RADPARTS.COM, INC.

MKR  
Authorized Signature  
Date 4-22-15

SELLER  
High Point Regional Health Center = KSC  
Facility/Institution

Kimberly S. Crews 4/21/2015  
Authorized Signature Date

Kimberly S. Crews VP/CEO  
Print Name Title



#### GENERAL TERMS AND CONDITIONS

- AS IS, WHERE IS:** All used Equipment is sold "As Is, Where Is Condition", and Seller disclaims any and all warranties expressed or implied, including but not limited to implied warranties of merchantability and/or fitness for a particular purpose.
- INSPECTION & DEPOSIT:** RADPARTS will submit a refundable deposit in order to hold equipment for inspection. RADPARTS must approve or reject Equipment within 72 hours of inspection. If RADPARTS approves Equipment, RADPARTS's deposit becomes a non-refundable down payment. If RADPARTS rejects Equipment, then SELLER shall refund all deposits paid to the RADPARTS within five business days following the rejection of Equipment. If no response is received within 72 hours equipment will be presumed to have been rejected. RADPARTS shall have the right to cancel this agreement prior to the inspection deadline date and receive a refund of deposit(s) paid.
- CONDITION OF EQUIPMENT:** Equipment will be maintained in the condition that SELLER represented it at the time of the execution of this Agreement, and in the condition RADPARTS inspected it. In the event that it is not in such condition, RADPARTS will have the following options: (1) RADPARTS may reject the Equipment and SELLER shall immediately refund to RADPARTS 100% of any moneys paid by RADPARTS within ten days, (2) The purchase price of the Equipment will be reduced by the amount equal to the cost of all repairs and work necessary to restore the Equipment to the condition and specifications outlined in this agreement or observed at the inspection.
- COMPUTERS & SOFTWARE:** SELLER understands that the Equipment requires functional computers and related software for operation. In the event SELLER elects to erase the data and/or software from the computers, SELLER agrees it will re-order and re-install the manufacturer's software prior to the scheduled removal date.
- TITLE:** SELLER warrants that it is the lawful owner of this equipment and that it is free of any and all encumbrances. Title will pass to RADPARTS or its designated agent upon receipt of payment in full. Title to the Equipment will then belong wholly and exclusively to RMOVER or its designated agent/Seller. Upon receipt of payment in full, and upon RADPARTS's request, RADPARTS will be issued a Bill of Sale from SELLER. Title will remain with SELLER until full payment has been made.
- REMOVAL COSTS:** RADPARTS is financially responsible for the costs incurred in the removal of the Equipment, including but not limited to providing labor, rigging, packing, shipping, and all bonding and insurance. RADPARTS is responsible for any damage to Equipment during the de-installation process. SELLER is responsible for providing a clear path for the removal of Equipment, and for any extraordinary costs required for removal including any construction costs, floor shoring, demolition, reconstruction, elevator-involved removals, crane rentals or delays in preparing facility for removal.
- REMOVAL LIABILITY:** RADPARTS shall be liable for any injury, including property damage and personal injury, caused by the negligent or willful acts of RADPARTS, during de-installation and removal of Equipment.
- DATE MODIFICATION:** In the event that the Equipment removal is delayed by SELLER for more than 30 days from the date defined in this agreement, RADPARTS shall have the option of either canceling this agreement and receiving a full refund, or negotiating the purchase price.
- EXPENSES:** Except as otherwise specifically provided herein, each party to this Agreement shall pay its own expenses (including the fees and expenses of their representatives, accountants and counsel) incidental to the preparation and carrying out of this Agreement, and the consummation of the transaction set forth herein.
- SCOPE OF AGREEMENT:** The signing of and the execution of this Agreement shall constitute the entire agreement between the parties and supercedes any and all prior agreements. No amendment or variation of this Agreement shall be valid unless mutually agreed upon in writing and signed by authorized officers of both the SELLER and the RADPARTS.
- WAIVER:** Failure by a party to assert its rights upon any default of this Agreement shall not be deemed a waiver of such rights, nor shall any waiver be implied from the making of any payment hereunder.
- LEGAL VENUE AND ARBITRATION:** In the event an obligation is undertaken by two or more persons pursuant to any contract, such persons agree to be jointly and severally liable hereunder for the full performance of such obligation, the contract and the rights and obligations of the parties be governed in all respects by the laws of Chester County, Pennsylvania. Any controversy arising out of this Agreement shall be settled by arbitration in accordance with the Rules of the American Arbitration Association in Chester County, Pennsylvania.

Seller Initials: \_\_\_\_\_

Radparts Initials: MMS



13. **COUNTERPARTS AND FACSIMILE SIGNATURES:** This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which taken together shall constitute one and the same Agreement. For purposes of this Agreement, signatures sent via facsimile shall be deemed originals and shall have the same force and effect as if they were originals. This agreement will not be binding until signed by both parties, and can be withdrawn at any time prior to its signature by RADPARTS. This agreement may only be executed when signed by an officer of Radparts.com, Inc..
14. **FORCE MAJEURE:** Neither party shall be liable in damages or have the right to terminate this Agreement for any delay or default in performing hereunder if such delay or default is caused by conditions beyond its control including, but not limited to Acts of God, government restrictions (including the denial or cancellation of any export or other necessary license), wars, adverse weather conditions, insurrections and/or any other cause beyond the reasonable control of the party whose performance is affected.
15. **CONFIDENTIALITY:** The terms and condition of this Agreement are confidential and shall not be disclosed except as necessary to the performance of this Agreement or as required by law. SELLER's communications with RADPARTS's agents and Sellers are to be handled exclusively through RADPARTS unless otherwise directed by RADPARTS in writing. SELLER agrees to limit any discussion during inspection or in the course of due diligence to technical or logistical issues, and further expressly agrees to NOT discuss any financial issues with prospective buyers.

Seller Initials: \_\_\_\_\_

Radparts Initials: MLL

REC'D DEC 06 2016

Exhibit 7

North Carolina Department of Health and Human Services  
Division of Health Service Regulation  
Acute and Home Care Licensure and Certification Section  
Regular Mail: 2712 Mail Service Center  
Raleigh, North Carolina 27699-2712  
Overnight UPS and FedEx only: 1205 Umstead Drive  
Raleigh, North Carolina 27603  
Telephone: (919) 855-4620 Fax: (919) 715-3073

For Official Use Only

License # H0052

Medicare # 340004

FID #: 943251

PC 25

Date 12/8/16

License Fee:

\$6,692.50

**2017  
HOSPITAL LICENSE  
RENEWAL APPLICATION**

Legal Identity of Applicant: High Point Regional Health

(Full legal name of corporation, partnership, individual, or other legal entity owning the enterprise or service.)

Doing Business As

(d/b/a) name(s) under which the facility or services are advertised or presented to the public:

PRIMARY: High Point Regional Health

Other: \_\_\_\_\_

Other: \_\_\_\_\_

Facility Mailing Address: P O Box HP5  
High Point, NC 27261

Facility Site Address: 601 North Elm St  
High Point, NC 27262

County: Guilford  
Telephone: (336)878-6000  
Fax: (336)878-6158

Administrator/Director: Ernest L Bovio Jr

Title: President & CEO

(Designated agent (individual) responsible to the governing body (owner) for the management of the licensed facility)

406476  
2-7-16  
\$6,692.50

Chief Executive Officer: Ernest L Bovio Jr Title: President & CEO

(Designated agent (individual) responsible to the governing body (owner) for the management of the licensed facility)

Name of the person to contact for any questions regarding this form:

Name: Polly Doroshenko Telephone: 336 878-6259

E-Mail: paulette.doroshenko@unchealth.unc.edu

All responses should pertain to October 1, 2015 through September 30, 2016.

**11. Linear Accelerator Treatment Data (Including Cyberknife® & Similar Equipment)**

CPT Code	Description	# of Procedures
<b>Simple Treatment Delivery</b>		
77401	Radiation treatment delivery	
77402	Radiation treatment delivery (<=5 MeV)	104
77403	Radiation treatment delivery (6-10 MeV)	
77404	Radiation treatment delivery (11-19 MeV)	
77406	Radiation treatment delivery (>=20 MeV)	
<b>Intermediate Treatment Delivery</b>		
77407	Radiation treatment delivery (<=5 MeV)	1
77408	Radiation treatment delivery (6-10 MeV)	
77409	Radiation treatment delivery (11-19 MeV)	
77411	Radiation treatment delivery (>=20 MeV)	
<b>Complex Treatment Delivery</b>		
77412	Radiation treatment delivery (<=5 MeV)	5345
77413	Radiation treatment delivery (6-10 MeV)	
77414	Radiation treatment delivery (11-19 MeV)	
77416	Radiation treatment delivery (>= 20 MeV)	
<b>Other Treatment Delivery Not Included Above</b>		
77418	Intensity modulated radiation treatment (IMRT) delivery and/or CPT codes 77385 and/or 77386	3685
77372	Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; linear accelerator	
77373	Stereotactic body radiation therapy, treatment delivery, per fraction to 1 or more lesions, including image guidance, entire course not to exceed 5 fractions	70
G0339	(Image-guided) robotic linear accelerator-based stereotactic radiosurgery in one session or first fraction	
G0340	(Image-guided) robotic linear accelerator-based stereotactic radiosurgery, fractionated treatment, 2nd-5th fraction	
	Intraoperative radiation therapy (conducted by bringing the anesthetized patient down to the LINAC)	
	Pediatric Patient under anesthesia	
	Neutron and proton radiation therapy	
	Limb salvage irradiation	
	Hemibody irradiation	
	Total body irradiation	
<b>Imaging Procedures Not Included Above</b>		
77417	Additional field check radiographs (77387, 77014, 66002)	2105
<b>Total Procedures - Linear Accelerators</b>		11310
<b>Gamma Knife® Procedures</b>		
77371	Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of one session; multisource Cobalt 60 based (Gamma Knife®)	
<b>Total Procedures - Gamma Knife®</b>		4

*HP Partial Year Split*

All responses should pertain to October 1, 2015 through September 30, 2016.

X

*High Point 8/17/15 - 5/20/16*

*UNC 5/21-9/3*

**11. Linear Accelerator Treatment Data (including Cyberknife® & Similar Equipment)**

CPT Code	Description	# of Procedures
<b>Simple Treatment Delivery</b>		
77401	Radiation treatment delivery	
77402	Radiation treatment delivery (<=5 MeV)	90
77403	Radiation treatment delivery (6-10 MeV)	
77404	Radiation treatment delivery (11-19 MeV)	
77406	Radiation treatment delivery (>=20 MeV)	
<b>Intermediate Treatment Delivery</b>		
77407	Radiation treatment delivery (<=5 MeV)	1
77408	Radiation treatment delivery (6-10 MeV)	
77409	Radiation treatment delivery (11-19 MeV)	
77411	Radiation treatment delivery (>=20 MeV)	
<b>Complex Treatment Delivery</b>		
77412	Radiation treatment delivery (<=5 MeV)	3461
77413	Radiation treatment delivery (6-10 MeV)	
77414	Radiation treatment delivery (11-19 MeV)	
77416	Radiation treatment delivery (>= 20 MeV)	
<b>Other Treatment Delivery Not Included Above</b>		
77418	Intensity modulated radiation treatment (IMRT) delivery and/or CPT codes 77385 and/or 77386	2398
77372	Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session: linear accelerator	
77373	Stereotactic body radiation therapy, treatment delivery, per fraction to 1 or more lesions, including image guidance, entire course not to exceed 5 fractions	16
G0339	(Image-guided) robotic linear accelerator-based stereotactic radiosurgery in one session or first fraction	
G0340	(Image-guided) robotic linear accelerator-based stereotactic radiosurgery, fractionated treatment, 2nd-5th fraction	
	Intraoperative radiation therapy (conducted by bringing the anesthetized patient down to the LINAC)	
	Pediatric Patient under anesthesia	
	Neutron and proton radiation therapy	
	Limb salvage irradiation	
	Hemibody irradiation	
	Total body irradiation	
<b>Imaging Procedures Not Included Above</b>		
77417	Additional field check radiographs	1631
<b>Total Procedures - Linear Accelerators</b>		<b>7597</b>
<b>Gamma Knife® Procedures</b>		
77371	Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of one session: multisource Cobalt 60 based (Gamma Knife®)	
<b>Total Procedures - Gamma Knife®</b>		

14

0

1884

1287

54

474

3713

All responses should pertain to October 1, 2015 through September 30, 2016

**11. Linear Accelerator Treatment Data *continued***

a. Number of patients who received a course of radiation oncology treatments on linear accelerators (not the Gamma Knife®). Patients shall be counted once if they receive one course of treatment and more if they receive additional courses of treatment. For example, one patient who receives one course of treatment counts as one, and one patient who receives three courses of treatment counts as three. # Patients <u>475</u> (This number should match the number of patients reported in the Linear Accelerator Patient Origin Table on page 34.)	
b. Linear Accelerators <ol style="list-style-type: none"> <li>1. TOTAL number of Linear Accelerator(s) <u>2</u></li> <li>2. Of the TOTAL number above, number of Linear Accelerators configured for stereotactic radiosurgery <u>1</u></li> <li>3. Of the TOTAL number above, Number of CyberKnife® Systems: _____</li> <li>4. Of the TOTAL number above, -other specialized linear accelerators _____</li> </ol>	
c. Number of Gamma Knife® units _____	
d. _____	
e. Number of treatment simulators ("machine that produces high quality diagnostic radiographs and precisely reproduces the geometric relationships of megavoltage radiation therapy equipment to the patient."(GS 131E-176(24b))) <u>1</u>	

**12. Additional Services:**

a) Check if Service(s) is provided: (for dialysis stations, show number of stations)

	Check		Check
1. Cardiac Rehab Program (Outpatient)	✓	5. Rehabilitation Outpatient Unit	✓
2. Chemotherapy	✓	6. Podiatric Services	✓
3. Clinical Psychology Services	✓	7. Genetic Counseling Service	✓
4. Dental Services	✓	7. Inpatient Dialysis Services. If checked, number of stations: <u>6</u>	✓



HP Partial  
Year

All responses should pertain to October 1, 2015 through September 30, 2016.

HP 10/1/15 - 9/30/16 = 307  
 UNC 5/21/16 - 9/30/16 = 168

X

**11. Linear Accelerator Treatment Data continued**

a. Number of patients who received a course of radiation oncology treatments on linear accelerators (not the Gamma Knife®). Patients shall be counted once if they receive one course of treatment and more if they receive additional courses of treatment. For example, one patient who receives one course of treatment counts as one, and one patient who receives three courses of treatment counts as three.

# Patients \_\_\_\_\_ (This number should match the number of patients reported in the Linear Accelerator Patient Origin Table on page 34.)

b. Linear Accelerators

1. TOTAL number of Linear Accelerator(s) 2
2. Of the TOTAL number above, number of Linear Accelerators configured for stereotactic radiosurgery 1
3. Of the TOTAL number above, Number of CyberKnife® Systems: \_\_\_\_\_
4. Of the TOTAL number above, -other specialized linear accelerators \_\_\_\_\_

- c. Number of Gamma Knife® units \_\_\_\_\_
- d. \_\_\_\_\_

e. Number of treatment simulators ("machine that produces high quality diagnostic radiographs and precisely reproduces the geometric relationships of megavoltage radiation therapy equipment to the patient."(GS 131E-176(24b))) \_\_\_\_\_

**12. Additional Services:**

a) Check if Service(s) is provided: (for dialysis stations, show number of stations)

	Check		Check
1. Cardiac Rehab Program (Outpatient)	✓	5. Rehabilitation Outpatient Unit	✓
2. Chemotherapy	✓	6. Podiatric Services	✓
3. Clinical Psychology Services	✓	7. Genetic Counseling Service	✓
4. Dental Services	✓	7. Inpatient Dialysis Services. If checked, number of stations: <u>6</u>	✓

All responses should pertain to: October 1, 2015 through September 30, 2016

**Patient Origin – Linear Accelerator Treatment**

Facility County: **Guilford**

In an effort to document patterns of utilization of linear accelerators in North Carolina, hospitals are asked to provide the county of residence for patients served on linear accelerators in your facility. Report the number of patients who receive radiation oncology treatment on equipment (linear accelerators, CyberKnife®, but not Gamma Knife®) listed in Section 11 of this application. Patients shall be counted once if they receive one course of treatment and more if they receive additional courses of treatment. For example, one patient who receives one course of treatment counts as one, and one patient who receives three courses of treatment counts as three. The number of patients reported here should match the number of patients reported in Section 11.a. on page 22 of this application.

County	No. of Patients	County	No. of Patients	County	No. of Patients
1. Alamance	3	37. Gates		73. Person	
2. Alexander		38. Graham		74. Pitt	
3. Alleghany		39. Granville		75. Polk	
4. Anson		40. Greene		76. Randolph	61
5. Ashe		41. Guilford	301	77. Richmond	
6. Avery		42. Halifax		78. Robeson	
7. Beaufort		43. Harnett		79. Rockingham	
8. Bertie		44. Haywood		80. Rowan	
9. Bladen		45. Henderson		81. Rutherford	
10. Brunswick		46. Hertford		82. Sampson	
11. Buncombe		47. Hoke		83. Scotland	
12. Burke		48. Hyde		84. Stanly	
13. Cabarrus	2	49. Iredell		85. Stokes	
14. Caldwell		50. Jackson		86. Surry	2
15. Camden		51. Johnston		87. Swain	
16. Carteret		52. Jones		88. Transylvania	
17. Caswell		53. Lee		89. Tyrrell	
18. Catawba		54. Lenoir		90. Union	
19. Chatham		55. Lincoln		91. Vance	
20. Cherokee		56. Macon		92. Wake	
21. Chowan		57. Madison		93. Warren	
22. Clay		58. Martin		94. Washington	
23. Cleveland		59. McDowell		95. Watauga	
24. Columbus		60. Mecklenburg		96. Wayne	
25. Craven		61. Mitchell		97. Wilkes	
26. Cumberland		62. Montgomery	1	98. Wilson	
27. Currituck		63. Moore		99. Yadkin	
28. Dare		64. Nash		100. Yancey	
29. Davidson	89	65. New Hanover			
30. Davis		66. Northampton		101. Georgia	
31. Duplin		67. Onslow		102. South Carolina	
32. Durham		68. Orange		103. Tennessee	
33. Edgecombe		69. Pamlico		104. Virginia	
34. Forsyth	21	70. Pasquotank		105. Other States	
35. Franklin		71. Pender		106. Other	
36. Gaston		72. Perquimans		Total No. of Patients	475

Partial Year Split  
 HP/UNC

All responses should pertain to October 1, 2015 through September 30, 2016.

Patient Origin – Linear Accelerator Treatment

Facility County: Guilford

In an effort to document patterns of utilization of linear accelerators in North Carolina, hospitals are asked to provide the county of residence for patients served on linear accelerators in your facility. Report the number of patients who receive radiation oncology treatment on equipment (linear accelerators, CyberKnife®, but not Gamma Knife®) listed in Section 11 of this application. Patients shall be counted once if they receive one course of treatment and more if they receive additional courses of treatment. For example, one patient who receives one course of treatment counts as one, and one patient who receives three courses of treatment counts as three. The number of patients reported here should match the number of patients reported in Section 11.a. on page 22 of this application.

County	No. of Patients	County	No. of Patients	County	No. of Patients
1. Alamance	2/1	37. Gates		73. Person	
2. Alexander		38. Graham		74. Pitt	
3. Alleghany		39. Granville		75. Polk	
4. Anson		40. Greene		76. Randolph	39/22
5. Ashe		41. Guilford	195/106	77. Richmond	
6. Avery		42. Halifax		78. Robeson	
7. Beaufort		43. Harnett		79. Rockingham	
8. Bertie		44. Haywood		80. Rowan	
9. Bladen		45. Henderson		81. Rutherford	
10. Brunswick		46. Hertford		82. Sampson	
11. Buncombe		47. Hoke		83. Scotland	
12. Burke		48. Hyde		84. Stanly	
13. Cabarrus	1/1	49. Iredell		85. Stokes	
14. Caldwell		50. Jackson		86. Surry	1/1
15. Camden		51. Johnston		87. Swain	
16. Carteret		52. Jones		88. Transylvania	
17. Caswell		53. Lee		89. Tyrrell	
18. Catawba		54. Lenoir		90. Union	
19. Chatham		55. Lincoln		91. Vance	
20. Cherokee		56. Macon		92. Wake	
21. Chowan		57. Madison		93. Warren	
22. Clay		58. Martin		94. Washington	
23. Cleveland		59. McDowell		95. Watauga	
24. Columbus		60. Mecklenburg		96. Wayne	
25. Craven		61. Mitchell		97. Wilkes	
26. Cumberland		62. Montgomery	1/0	98. Wilson	
27. Currituck		63. Moore		99. Yadkin	
28. Dare		64. Nash		100. Yancey	
29. Davidson	54/30	65. New Hanover			
30. Davie		66. Northampton		101. Georgia	
31. Duplin		67. Onslow		102. South Carolina	
32. Durham		68. Orange		103. Tennessee	
33. Edgecombe		69. Pamlico		104. Virginia	
34. Forsyth	14/7	70. Pasquotank		105. Other States	
35. Franklin		71. Pender		106. Other	
36. Gaston		72. Perquimans		Total No. of Patients	307/168

HP Partial Year Listed First = 307 (10/1/15 - 5/20/16)  
 UNC Partial Year Listed Second = 168 (5/21/16 - 9/30/16)

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**The outpatient Cancer Center at High Point Regional became a department of UNC Hospitals effective May 21, 2016. Included in this application are full-year volumes for PET and Linear Accelerator services. Also, included on additional (white pages) are the volumes broken out between High Point and UNC.**