

SHIP TO:
 WAREHOUSE EO B82010
 V.A. Medical Center
 LOGISTICS EAST ORANGE
 385 TREMONT AVE
 EAST ORANGE, NJ 07018-1095

P.O.# 561-B82010

Scope of Supply

Qty	Description
1	Interface to MOSAIQ - HexaPOD evo
1	Product Transfer : On-site Installation Transfer Product from Installed to Another. On-site installation & testing to switch from one installed product model to another.
1	MOSAIQ IGRT Connectivity for Elekta Connectivity kit including the RTD and Elekta delivery platform, interface to Elekta MLC/IMRT, interface to iViewGT electronic portal imaging device and connectivity to the XVI including volumetric imaging. <i>Transfer Existing License from Siemens MVCT Unit</i>
1	Connectivity to Elekta VMAT Support for Elekta VMAT treatment techniques.
1	SYNERGISTIQ SYNERGISTIQ integrates MOSAIQ and Elekta IGRT devices 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	MOSAIQ® On-Site Training - 4 day On-site training visit by Elekta trainer focusing on agreed-upon goals, format, and agenda. Training duration is 4 business days and is conducted during regular working hours.
1	SYNERGISTIQ PC Hardware Kit for MOSAIQ Contract pass-through 3rd party product. Includes: <ul style="list-style-type: none"> • 1 x J6D86UT#ABA HP 800ED TWR I5-4590 3.3G 8GB 500GB DVDRW W7P 64BIT • 1 x B4Y36AA HP 4GB DDR3 1600 DIMM Memory • 1 x B4J92AT HP GeForce GTX 630 Graphic Card - 2 GB DDR3 SDRAM - PCI Express x16 • 1 x HPMSVC-TEC-INT035 HPM TECHNICAL SERVICES INTEGRATION
2	Barcode Printer Kit for MOSAIQ Contract pass-through 3rd party product. Includes: <ul style="list-style-type: none"> 1 x 282P-201111-000 Zebra LP2824+ 203DPI/DT/SER/USB/51 1 x F3U133-06 BELKIN USB CABLE A-B 6FT

2 x SLP-2RL Seiko address Labels; (White) 260
labels 1-1/8in x 3-1/2in

3

Barcode Wireless Scanner Kit for MOSAIQ

Contract pass-through 3rd party product. Includes:

- 1 x KT-2070-SL2000C1US Symbol MT2070 -
Wireless Barcode Scanner
- 1 x STB2078-C10007WR Symbol Cradle
(Charger and Interface)

Qt

Description

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 on the Elekta Digital Accelerator. The gating signal can be provided by a validated external motion management system, such as the Active Breathing Coordinator™.

1

iViewGT Linac Specific Activation License – Sun Nuclear

Allows for connectivity between the iViewGT database and the specified 3rd party dosimetry system. One license per linac.

Qt

Description

1

AMP Physics Services

1

OSI Removal of existing Siemens linac

1

C-RAD Sentinel and Catalyst

1

Mim Maestro

1

Lucy Phantom

1

sun nuclear ic profiler

1

QFix proforma

1

sun nuclear per fraction

1

Q-fix SRS Package

Qt

Description

1

Elekta Infinity™

Dual modality digital accelerator provides:

- a choice of up to three different x-ray energies and up to 9 electron energies
- Agility™, Elekta's integrated multi-leaf collimator, that provides full field high resolution beam shaping (5mm at isocentre), a 40 x 40cm treatment field and effective leaf tip speed of up to 6.5cm/sec, capable of covering multiple targets with interdigitation and island shapes
- A broad spectrum of delivery techniques from 3D Conformal Radiotherapy to IMRT, VMAT- VMAT enables simultaneous and dynamic movement of the MLC while rotating the gantry in combination with varying the dose rate, gantry speed and or collimator angle to deliver a highly conformal dose.
- XVI, offering 2D and 3D kV image guidance for advanced soft tissue visualization supporting image guided treatment workflows . XVI Software options VolumeView™, MotionView™ and PlanarView™ are included.
- iViewGT™, offering 2D MV imaging capability supporting image guided treatment workflows
- remote system diagnostic ready and will function with the optional Elekta IntelliMax™ service monitoring and support system. IntelliMax is enabled through software and is available during the original system warranty period or through purchase of an Elekta Advanced Service Agreement
- Precise Treatment Table™ which comprises a vertical lift mechanism, couch base and the control system
- low isocentric height of 124cm.
- IntelliMax™ Intelligent Agent license is included. 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

Stereotactic MV Isocenter Setup

Service to evaluate the MV (Gantry), and combined MV (Gantry) and table isocenter using software tool based on the Winston Lutz test. The following values will be achieved at 6 MV;

- MV isocenter (Gantry): 0.7 mm radius
- Combined MV isocenter (Gantry) and table isocenter: 1.1mm radius.

1

Goalpost Assembly

Elekta Synergy® Platform, Elekta Synergy®, Elekta Infinity™, Elekta Axesse™ and Versa HD™ compatible standard goalposts.

1

Agility™ Kit

Agility - fully integrated 160 leaf Beam Shaping Device with fine resolution leaves (0.5 cm wide) across the full 40x40 cm field size. The MLC comes with a Treatment Control System Rack Cabinet and Integrity R3.X software which includes integral leaf calibration workflows. Agility is designed to support 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.

1

Agility head covers and touchguard - Non Axesse

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

1

Integrity™ R3.2 control system software

Integrity is the latest generation of Elekta's fully digital treatment control system software for systems with Agility™. Integrity is built on the latest LynX OS platform and is the monitoring and control foundation of Elekta treatment delivery systems. Integrity additionally supports Continuously Variable Dose Rate, dynamic and VMAT deliveries.

1

Hardware Upgrade Kit - Integrity™ R3.1

1

High Dose Rate Mode Hardware Upgrade Kit

1

Integrity™ 3.1 Software Upgrade Kit

1

MOSAIQ Sequencer PC

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

1

Linac Seismic Kit USA

Compliant to Californian Building Code.

1

XVI Seismic kit

Compliant to USA California Building Code.

The kit of parts and the instructions are applicable to all Digital Accelerators fitted with XVI.

1

6 MV Low Energy Photon

- 1 **10 MV Mid Energy Photon**
- 1 **6MV High Dose Rate Software License**
High Dose Rate Mode provides flattening filter free beam delivery of 6MV beams at dose rates up 1,400 MU/min, as well as reduction in scatter, lowering whole body radiation doses.
- 1 **6 MeV Electron Energy**
- 1 **9 MeV Electron Energy**
- 1 **12 MeV Electron Energy**
- 1 **15 MeV Electron Energy**
- 1 **U.S.A. Electron Flatness**
Electron flatness according to U.S.A. standards, optimized at 100 cm.
- 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 **PreciseBEAM™ VMAT**
Provides Volumetric Intensity Modulated Arc Therapy which offers simultaneous dynamic control of the MLC, diaphragms, gantry and collimator. It allows continuous variable MU/degree along the arc.
- 1 **Combined Interdigitation & CVDR license**
License providing interdigitation and Continuously Variable Dose Rate (CVDR) functionality.
- 1 **VMAT Treatment Planning System Manual**
- 1 **VMAT CAT (Volumetric Arc Therapy Customer Acceptance Test)**
- 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 on the Elekta Digital Accelerator. The gating signal can be provided by a validated external motion management system, such as the Active Breathing Coordinator™.
- 1 **SYNERGISTIQ™ Software License**

Enables the XVI functionality to support SYNERGISTIQ.
SYNERGISTIQ integrates MOSAIQ® and XVI into a consolidated and synchronized user interface.

1 **Software Media Pack, SYNERGISTIQ™ Clients**

1 **SYNERGISTIQ™ Monitor kit**

Specification for Extender/Receiver and cable for a remote monitor. Required for sites that use SYNERGISTIQ with a remote monitor in the treatment room.

1 **kiloVoltage Cone-beam CT Hardware for Elekta Infinity™**

1 **40kW kV generator - 480V**

The integrated 40kW kV generator provides multiple settings control via the XVI software. Acquisition parameters are configured within the preset protocol function in the XVI software, and is user configurable. The generator and X-ray tube have been optimized for the 3D VolumeView™ imaging, as well as the 2D radiographic type exposures of PlanarView™ and MotionView™.

1 **Intrafraction Imaging License**

Provides the ability to acquire kV images during the delivery of an MV treatment field. Intra-fraction imaging allows you to:

- Acquire images (2D fluoro) for a specified time, and then move directly into a 3D volumetric acquisition.
- Acquire a 3D volumetric image during conformal, IMRT or VMAT MV deliveries to measure intrafraction movement.
- Perform Intra-fraction 3D or 4D volumetric imaging and registration per arc during dual (or multiple) arc procedures, allowing table corrections in between arcs.

1 **Symmetry™ License**

Symmetry is primarily indicated for respiratory motion management. It offers a unique 4D IGRT online solution that is correlated to internal organ movement. It facilitates for the planned dose to be delivered to the volume where the target spends most of its time in. This allows for margin reduction and baseline shift compensation, supporting treatment deliveries during free-breathing with no surrogates. The use of Symmetry does not require planning on a 4D reference CT.

1 **Critical Structure Avoidance**

Critical Structure Avoidance allows the 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 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 that conforms to anatomical structures.

1

3D Automated Seed Match License

Offers an optimized 3D registration algorithm to register implanted markers, without compromising on 3D volumetric information.

1

Distributed Review

Distributed Review allows the sending of XVI CBCT data to MOSAIQ® for review at any MOSAIQ® workstation, as well as the primary XVI workstation.

Pre-requisites:

- Distributed Imaging/Treatment
- DICOM CT Export (+/- Auto DICOM CT Export).

1

Distributed Imaging

Distributed Imaging allows the transfer a patient between XVI systems without having to prepare the registration settings on the secondary XVI system, through MOSAIQ®.

1

Elekta XVI Basic Calibration Kit - Bearing Phantom Assembly

Specially designed geometric calibration phantom for kV to MV isocentre alignment. Suitable for the XVI system with the iBEAM® evo couch top.

1

XVI Daily QA Phantom Kit

Daily QA Phantom for kV and MV projection imaging and kV VolumeView™. Checks the laser and light field coincide and additionally provides a spreadsheet for recording and analyzing trend results.

1

Kit for CDTI_100 Measurements

Kit containing complete set of tools for CDTI_100 measurements, as below:

- CT Head Measuring Phantom
- CT Body Measuring Phantom
- Ion Chamber Detector
- Ion Chamber Holder
- CDTI Collimator Cassettes.

1

Automated DICOM CT export license

This tool uses DICOM Auto-Push for 3D images. DICOM Auto-Push automatically exports the CBCT image when you accept or save a 3D VolumeView reconstruction.

1

Manual DICOM RT Image Export

This tool uses DICOM to export 2D PlanarView images manually from XVI.

1

Auto DICOM RT Image Export

This tool uses DICOM Auto-Push for 2D images. DICOM Auto-Push automatically exports the image when you acquire a 2D PlanarView image.

1

DICOM CT export license

This tool uses DICOM to export the 3D images manually from XVI to MOSAIQ®, or any 3rd party DICOM-based tool.

1

DICOM 4D export

4D DICOM export allows the user to export to a third party system the CBCT data as generated by Symmetry™ of:

- Average phases
- All phases
- Single phase.

1

Archive and retrieve to network

Performs automatic archiving of patient images to a pre-defined network location, outside of MOSAIQ®. Archiving can be scheduled, and the network location can be specified at will. The same tool performs retrieval of files from the same location.

1

Extra Collimators

Provision of additional XVI collimators for imaging. Includes:

- VolumeView cassettes: L10, M2, L2.

1

Elekta Infinity™ iViewGT™

This kit contains all of the components for iViewGT including;

- A MK 6 imaging control system cabinet with the iViewGT software R3.4.1. pre-installed.
- A rigid and fully retractable slim line MV imaging detector arm with a large, square active detector area and wide lateral and longitudinal movement adjustments. The arm has automatic and manual arm movements and is fully interlocked.

1

iViewGT™ R3.4.1 Installation Kit

1

iViewGT™ R3.4.1 Software License

1

iViewGT™ R3.4.1 Software License Collation

Third Party License toolkit necessary for supporting iViewGT.

1

Remote Retraction of the iViewGT™ detector - 30M

This kit allows Remote Retraction of the iViewGT detector from the Function Key Pad.

1

DICOM 3.0 software interface for image transfer

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

1

iViewGT™ IMRT Verification Software License

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

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

Patient Auto Select Software License

This enables the prescription selected on the Linac to automatically select or create that patient record on iViewGT™ or 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

Software License Image Approval

This allows the user, assigned with the 'review' permission, to approve or disapprove any image within iViewGT™ or iViewC™.

1

Las Vegas Calibration Phantom

The Las Vegas phantom is a device that is used to check image quality of a portal imaging device at different megavoltage energies both at acceptance and as part of the corrective maintenance procedure.

1

HexaPOD™ evo RT System with iGUIDE® 2.2.2

The system consists of:

- HexaPOD evo RT Couchtop with homogeneous carbon fiber couchtop
- Handheld controller
- iBEAM evo Extension 650 long
- iBEAM evo Extension 415
- iBEAM Indexing bars
- iGUIDE Reference Frame
- EnableSwitch board
- iGUIDE workstation
- iGUIDE 2.2.2 software
- iGUIDE tracking system
- iGUIDE terminal.

1

HexaPOD™ evo RT System Integration License

This license package will provide the following integration features:

- Interface to MOSAIQ for automated patient ID and treatment site loading for departments using MOSAIQ 2.5 or higher.
- Control of Precise Table with iGUIDE for Systems with Integrity 3.2.

1

iGUIDE® Tracking System-Universal Ceiling Mount

The universal ceiling mount is part of the HexaPOD evo RT System and will be shipped from the service warehouses in advance to enable the installation in advance.

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 of very tall patient's.

1

Precise Treatment Table™ or Pedestal Pit Kit

This kit provides the necessary fixings, floor boards and template to install a Precise Treatment Table into a custom built pit or a modified Pedestal pit.

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

Safety Belts

Velcro patient safety belts designed to be fitted to the accessory rails on the treatment table.

1

Port Film Graticule

Port film graticule using wire inserts. Fits into upper position of the coded shadow tray, enabling simultaneous fitment of blocking tray for treatment verification.

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.

4

19-inch Control Room LCD Monitor

1

19-inch Control Room LCD 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

In-room Monitor, Keyboard and Mouse Local Procurement Specification

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 **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 **Software license Linac Record 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 **Extended Service License**
This license allows the user extra service tools/functionality.

1 **Extender Cards**
Extender cards for fault diagnosis on the Electrical Interface Module (EIM).

1 **Linear Accelerator Manual Set**

1 **Customer Interface Terminal Board**

1 **Turbo Starter Kit for Linear Accelerators**
Ancillary equipment required for the installation and maintenance of any Precise Digital Accelerator. Comprising:

- Rotary vacuum pump
- Turbo molecular pump attachment for rapid pump down times and higher roughing vacuum.

1 **General Function Key Pad**
The Function Key Pad provides the following features:

- MV Start, Interrupt and Terminate
- LEDs 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 iViewGT™ detector.

1 **XVI cable reeling**

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

1 **Room Lasers, Red, Remote**

Laser patient alignment system, red lines with remote control adjustment.

- Set of 4 red 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 main adaptor and remote hand-held controller.

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

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 iViewGT 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

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

HexaPOD™ evo RT System Training

The 2-day HexaPOD evo RT CouchTop and iGUIDE® course (travel inclusive) provides training for 4 radiation therapists in the clinical use of the HexaPOD evo RT CouchTop and iGUIDE software. 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

Weekend Rigging & Handling

Basic rigging of Linac to first floor or ground floor location outside of Elekta's normal working hours. 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

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 **Treatment Control System Rack Cabinet**
Rack based control system cabinet for the linear accelerator and Agility MLC. The cabinet also hosts the NSS computer and is capable of hosting the MOSAIQ Sequencer PC.
- 1 **Licences and Manuals Integrity 3.x**
Licences and Manuals for Linac and Control System Integrity 3.x
- 1 **Agility™ Beam Arm Cover (new white)**
- 1 **Spares Kit Basic**
A basic kit of spare parts for the Digital Accelerator.
- 1 **Control System hardware for XVI R5.0.4**
The XVI control system is a high specification PC which supports all aspects of the IGRT process including 2D, 3D and 4D kV image acquisition, reconstruction, and analysis using a suite of registration functionality.
- 1 **XVI 5.0.4 Software Licenses**
- 1 **Order two sets of pre defined terminated cable kits**
Pre installation treatment room and Inter bay terminated cable kits.
- 1 **Elekta Infinity Drum and Ring Cover Set**
- 1 **Elekta Synergy Platform and Elekta Synergy Narrow Cover Set**
- 1 **iViewGT™ Amorphous Silicon detector panel for production systems.**
- 1 **Closed Circuit TV System - Color**
The standard CCTV system consists of two Samsung SNP-5321 (1.3 Megapixel HD) dome-shaped color cameras and two pan/tilt/zoom control mounts allowing the operator full control of both cameras.
- 1 **Additional Closed Circuit TV System Camera**
This optional camera can be added to the standard CCTV system to create a three camera CCTV system. The additional camera consists of one Samsung SNP-5321 (1.3 Megapixel HD) dome-shaped color camera and one pan/tilt/zoom control mount allowing the operator full control of the additional camera.
- 1 **Intercom system for patient and radiographer communication**

The ASK-4@ 501-TLI-CF is a single zone audio monitoring system with 2-way talk/listen capabilities. It consists of a remote speaker/microphone and audio base station with built-in microphone and speaker.
- 1 **iViewGT Linac Specific Activation License – Sun Nuclear**
Allows for connectivity between the iViewGT database and the specified 3rd party dosimetry system. One license per linac.
- 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

Non-Standard Request

Please refer to Exhibit G for full details of the Non-Standard Request included in this offer.

2

Medical Gases SF6 for Installation and Service

Includes:

- 44-liter cylinder for SF6 gas
- 115 lbs of SF6 gas
- Regulator
- Delivery.

2

Medical Gases Nitrogen for Installation and Service

Includes:

- 16-liter cylinder for Nitrogen (N2) gas
- Nitrogen (N2) gas
- Regulator
- Delivery.

1

Elekta Linac Physics

Objective

After completing this course, attendees will:

- Identify different components of an Elekta linear accelerator.
- Operate the linear accelerator's controls.
- Summarize the system communication and the different protocols used.
- Operate the accelerator in service and clinical modes.
- Perform calibration of dosimetry system.
- Understand fundamentals of MLC control system, optical tracking, and calibration.
- Outline the operation of imaging systems for IGRT and perform basic quality assurance.

Course Content

- Theory of Operation
- Control System and System Communication
- Beam Measurement and Dosimetry
- Agility Beam Limiting Device
- Imaging Systems and Introduction to IGRT

The application has been made to CAMPEP for 31.2 Medical Physics Continuing Education Credits (MPCEC.)

Duration

5-day training at Elekta's Region North America LINC

Target Group

- Medical Physicists
- Medical Physics Students

Pre-requisites

None

1

Medical Accelerator Quality Assurance

After completing this course, attendees will:

- List all AAPM TASK GROUP 142 REPORT report tests and their recommended frequency.
- Perform Dosimetry, mechanical, safety, respiratory gating, universal wedge, MLC, and imaging tests and evaluate results of these tests.
- Evaluate all AAPM TG 142 report tests and determine applicability of each test to their clinical setting.
- Analyze potential causes of test failures in order to assist in determining necessary corrective actions in conjunction with Elekta and/or Field System Engineer.
- List Elekta linear accelerator characteristics and how they apply to TASK GROUP 142 REPORT accelerator QA.

Course Content

- During this course, participants will learn about the philosophy and purpose of the recommendations given in the AAPM TASK GROUP 142 REPORT report: Quality assurance of medical accelerators.
- The recommended tests listed in the AAPM TASK GROUP 142 REPORT report will be presented and evaluated during this course in order for medical physicist to understand the clinical rational of each test, evaluate the necessity of each test for their specific clinical setting, and how to execute the tests in their clinical setting.
- The application has been made to CAMPEP for Medical Physics Continuing Education Credits (MPCEC).

Duration

3-day training at Elekta's Region North America LINC

Target Group

Certified Medical Physicists
Medical Physics Students

Pre-requisites

Physics 1 : Medical Accelerator Introduction

1

Volumetric Modulated Arc Therapy (VMAT) QA

Objectives

After completing this course, attendees will:

- Explain the clinical rational for the VMAT treatment technique.
- Evaluate the key factors influencing the quality of VMAT plans.
- List advantages and limitations of VMAT treatment technique.

- Explain the method by which VMAT is delivered by an Elekta linear accelerator.
- List the constraints required by the delivery system to ensure optimal treatment planning.
- Evaluate which aspects of VMAT must be tested prior to clinical use.
- Perform Picket Fence with Gantry Rotation, synchronization of dose rate and gantry speed, and synchronization of dose rate and MLC speed tests to evaluate proper performance of the Elekta medical accelerator.
- Develop and execute commissioning benchmark tests to determine baseline system performance for routine quality control testing post future repairs, upgrades, or cal checks.
- Discuss implementation strategies for patient specific measurement to determine gamma pass rate of the delivered plan.

Content

During this one-day course, attendees will learn the rationale for VMAT as a treatment technique and the different methods for creating VMAT treatment plans. The course will also cover VMAT delivery, commissioning, and quality assurance for the Elekta medical accelerator as well as advantages and limitations for VMAT as a treatment technique. The application has been made to CAMPEP for 7.75 Medical Physics Continuing Education Credits (MPCEC).

Duration

1 day

Target Audience

- Certified Medical Physicists
- Medical physics students

Prerequisites

- Physics 1: Medical Accelerator Introduction
- Quality Assurance of Elekta Medical Accelerators.

- 1 **Model Linac IEC 61217:1996 scales**
Used as an accessory to help visualize treatment plans. Moving gantry, collimator rotation, table longitudinal movement, with table isocentre and column rotation.
Scales: gantry, collimator, MLC leaves, table isocentre.
- 1 **Power Distribution Unit for Elekta® Linear Accelerator - 480 Volt Input**
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.
- 2 **HS IBEAM EVO EXT BA MO S-TYPE LONG**