North Carolina Department of Health and Human Services
Division of Health Service Regulation

Pat McCrory
Governor

Richard O. Brajer
Secretary DHHS

Mark Payne
Assistant Secretary for Audit and
Health Service Regulation

June 28, 2016

Terrill Johnson Harris
300 North Greene Street, Suite 1400
Greensboro, NC 27401

Exempt from Review – Replacement Equipment

Record #:	**1972**
Facility Name:	Transylvania Regional Hospital, Inc. and Bridgeway
FID #:	923509
Business Name:	Transylvania Community Hospital, Inc.
Business #:	1871
Project Description:	Replace existing CT scanner
County:	Transylvania

Dear Ms. Harris:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that based on your letter of June 6, 2016, the above referenced proposal is exempt from certificate of need review in accordance with G.S 131E-184(a)(7). Therefore, you may proceed to acquire, without a certificate of need, the General Electric Optima CT 660 64-slice System CT scanner. This determination is based on your representations that the existing unit will be removed from North Carolina and will not be used again in the State without first obtaining a certificate of need.

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.

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,

Julie Halatek

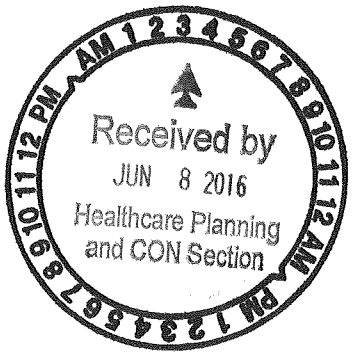
Julie Halatek
Project Analyst

Martha J. Frisone

Martha J. Frisone,
Assistant Chief, Certificate of Need

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

SMITHMOORE
LEATHERWOOD
ATTORNEYS AT LAW



June 6, 2016

Martha Frisone, Assistant Chief of CON
Julie Halatek, Project Analyst
Healthcare Planning and Certificate of Need Section
Division of Health Service Regulation
NC Department of Health and Human Services
2704 Mail Service Center
Raleigh, NC 27699-2704

Re: Replacement CT Scanner
Transylvania Regional Hospital
FID #923509

Dear Martha and Julie:

We are writing on behalf of Transylvania Regional Hospital, Inc. ("Transylvania") to give prior written notice that Transylvania plans to replace its existing CT scanner with comparable new equipment pursuant to N.C. Gen. Stat. § 131E-184(a)(7) and 10A N.C.A.C. 14C.0303.

The CT scanner currently in use is a GE Brightspeed 16. It has been in use since 2007 and needs to be replaced because of its age and increasing maintenance challenges. Transylvania no longer has the purchase order or brochures for the existing CT scanner. Attached as Exhibit A is a letter from Kelly McFarland, Regional Manager, Imaging Services, Mission Health, confirming that the GE Brightspeed 16 CT scanner is currently in use.

The existing CT scanner will be replaced with a new GE Optima CT660 64 slice System with ASiR. The replacement CT scanner has the same technology as the existing CT scanner but with technological improvements. The replacement CT scanner will be used for the same diagnostic and treatment purposes as the existing CT scanner, and the replacement CT scanner will not be used to provide a new health service.

Attached as Exhibit B is an e-mail from Seth Smith, GE Healthcare Asset Recovery Team Lead, confirming that the existing CT scanner will be removed to a GE facility in Wisconsin.

Enclosed as Exhibit C is a chart comparing the existing CT scanner with the replacement CT scanner. The documentation supporting the product and cost information in the chart relating to the replacement CT scanner is attached as part of Exhibit C. As shown on the chart, the cost of the replacement CT scanner is $485,233.85. After a trade-in allowance of $65,000, the cost to Transylvania is $420,233.85.

Minor construction and renovation will be needed to install the replacement CT scanner. The cost of the construction and renovation is budgeted at $394,000, as shown in the certified cost estimate attached as Exhibit D. The total cost to Transylvania for the acquisition and installation of the replacement CT scanner is expected to be $1,132,000, which includes the fixed equipment costs, construction costs, and other miscellaneous costs such as movable equipment and a contingency.

We look forward to receiving your letter confirming that Transylvania's replacement of its existing CT scanner is exempt from certificate of need review pursuant to N.C. Gen. Stat. § 131E-184(a)(7) based on the information in this letter and the attached documentation. If you have any questions or need additional information, please let me know. We look forward to hearing from you as soon as possible.

With kindest regards, I am

Very truly yours,

SMITH MOORE LEATHERWOOD LLP

Terrill Johnson Harris

Enclosures

cc: Brian Moore

Exhibit A

May 31, 2016

Martha Frisone, Assistant Chief of CON
Julie Halatek, Project Analyst
Healthcare Planning and Certificate of Need Section
Division of Health Service Regulation
NC Department of Health and Human Services
2704 Mail Service Center
Raleigh, NC 27699-2704

Re: Replacement CT Scanner at Transylvania Regional Hospital

Dear Ms. Frisone and Ms. Halatek:

I am writing on behalf of Transylvania Regional Hospital to confirm that its GE Brightspeed 16 CT scanner is currently in use. If you have any questions, please let me know.

Sincerely,

Kelly McFarland, MBA, RT(R)(CT)
Regional Director, Imaging Services
Mission Health System

Exhibit B

Barbara Wagner

From: Tucker, Brad (GE Healthcare) <Brad.Tucker@med.ge.com>
Sent: Monday, May 30, 2016 9:42 PM
To: Barbara Wagner; Smith, Seth (GE Healthcare)
Subject: RE: TRH-CT - disposal

Hello Barbara,

Yes it will. Below is the address and phone number of the GE Goldseal Warehouse. This is where the old CT will go.

GOLDSEAL C/O ACE WAREHOUSE
W160 S6471 COMMERCE DRIVE
MUSKEGO, WI 53150
DOCK 38-43

262-212-9209

Please let me know if you have any questions. Thanks,

Brad Tucker
Project Manager
GE Healthcare Project Management
Carolina's Region

M +1 704 562 9249
brad.tucker@med.ge.com
www.gehealthcare.com

For Urgent Technical Questions
Please call the Technical Support Group
(877) 305-9677

Need Site Planning Equipment Information?
Visit http://www3.gehealthcare.com/en/Support/Site_Planning

GE imagination at work

Exhibit C

Transylvania Regional Hospital
Information for Exemption for Replacement Equipment

EQUIPMENT COMPARISON	EXISTING EQUIPMENT	REPLACEMENT EQUIPMENT
Type of Equipment (List Each Component)	CT Scanner	CT Scanner
Manufacturer of Equipment	General Electric	General Electric
Model Number	Brightspeed 16 Power Elite 2335179	Optima CT660 64 slice System with ASiR
Serial Number	172518HM3 828883BS System ID	To be determined
Provider's Method of Identifying Equipment	Same as above	To be determined
Specify if Mobile or Fixed	Fixed	Fixed
Date of Acquisition of Each Component	10/11/2007	August 2016
Does Provider Hold Title to Equipment or Have a Capital Lease?	Title	Title
Specify if Equipment Was/Is New or Used When Acquired	New	New
Total Capital Cost of Project (Including Construction, etc.) <Use Attached Form>	Information not available	$1,132,000 (estimate)
Total Cost of Equipment	Information not available	$485,233.85
Fair Market Value of Equipment	Information not available	$485,233.85
Net Purchase Price of Equipment	Information not available	$420,233.85
Locations Where Operated	Transylvania Regional Hospital	Transylvania Regional Hospital
Number Days In Use/To be Used in N.C. Per Year	365	365
Percent of Change in Patient Charges (by Procedure)	NA	< 10% increase
Percent of Change in Per Procedure Operating Expenses (by Procedure)	NA	< 10% increase
Type of Procedures Currently Performed on Existing Equipment	CT scans	NA
Type of Procedures New Equipment is Capable of Performing	NA	CT scans

GE Healthcare

Date: 01-06-2016
Quote #: PR10-C60977
Version #: 2

Transylvania Regional Hospital
260 Hospital Dr
Brevard NC 28712-3378

Attn: Kelly McFarland
430 Rankin Drive P O Box 730 Marion
NC 28752-

Customer Number : 1-23IA20
Quotation Expiration Date: 03-31-2016

This Agreement (as defined below) is by and between the Customer and the GE Healthcare business ("GE Healthcare"), each as identified herein. "Agreement" is defined as this Quotation and the terms and conditions set forth in either (i) the Governing Agreement identified below or (ii) if no Governing Agreement is identified, the following documents:

1) This Quotation that identifies the Product offerings purchased or licensed by Customer;

2) The following documents, as applicable, if attached to this Quotation: (i) GE Healthcare Warranty(ies); (ii) GE Healthcare Additional Terms and Conditions; (iii) GE Healthcare Product Terms and Conditions; and (iv) GE Healthcare General Terms and Conditions.

In the event of conflict among the foregoing items, the order of precedence is as listed above.

This Quotation is subject to withdrawal by GE Healthcare at any time before acceptance. Customer accepts by signing and returning this Quotation or by otherwise providing evidence of acceptance satisfactory to GE Healthcare. Upon acceptance, this Quotation and the related terms and conditions listed above (or the Governing Agreement, if any) shall constitute the complete and final agreement of the parties relating to the Products identified in this Quotation.

No agreement or understanding, oral or written, in any way purporting to modify this Agreement, whether contained in Customer's purchase order or shipping release forms, or elsewhere, shall be binding unless hereafter agreed to in writing by authorized representatives of both parties.

Governing Agreement:	Premier
Terms of Delivery:	FOB Destination
Billing Terms:	80% on Delivery/ 20% on Acceptance or First Patient Use
Payment Terms:	NET 30
Total Quote Net Selling Price:	$420,233.85

INDICATE FORM OF PAYMENT:

If "GE HFS Loan" or "GE HFS Lease" is NOT selected at the time of signature, then you may NOT elect to seek financing with GE Healthcare Financial Services (GE HFS) to fund this arrangement after shipment.

____Cash/Third Party Loan

____GE HFS Lease

____GE HFS Loan

____Third Party Lease (please identify financing company) _____

By signing below, each party certifies that it (i) has received a complete copy of this Quotation, including the GE Healthcare terms, conditions and warranties, and (ii) has not made any handwritten or electronic modifications. Manual changes or mark-ups on this Agreement (except signatures in the signature blocks and an indication in the form of payment section below) will be void.

Each party has caused this agreement to be executed by its duty authorized representative as of the date set forth below.

CUSTOMER

_____ _____
Authorized Customer Signature Date

_____ _____
Print Name Print Title

_____
Purchase Order Number (if applicable)

GE HEALTHCARE
Tim Nash 01-06-2016
Signature Date

Lead Product Sales Specialist- CT

Email: tim.nash@ge.com
Mobile: +1 704 516 1259

GE Healthcare

Date: 01-06-2016
Quote #: PR10-C60977
Version #: 2

Total Quote Selling Price	**$485,233.85**
Trade-In and Other Credits	$65,000.00
Total Quote Net Selling Price	**$420,233.85**

To Accept this Quotation

Please sign and return this Quotation together with your Purchase Order To:
Tim Nash
Mobile: +1 704 516 1259
Email: tim.nash@ge.com

Payment Instructions

Please **Remit** Payment for invoices associated with this quotation to:
GE Healthcare
P.O. Box 96483
Chicago, IL 60693

To Accept This Quotation

- Please sign the quote and any included attachments (where requested).
- If requested, please indicate, your form of payment.
- If you include the purchase order, please make sure it references the following information
  - The correct Quote number and version number above
  - The correct Remit To information as indicated in **"Payment Instructions"** above
  - The correct SHIP TO site name and address
  - The correct BILL TO site name and address
  - The correct Total Quote Net Selling Price as indicated above

"Upon submission of a purchase order in response to this quotation, GE Healthcare requests the following to evidence agreement to contract terms. Signature page on quote filled out with signature and P.O. number.
**********OR**********
Verbiage on the purchase order must state one of the following: (i) Per the terms of Quotation #_____; (ii) Per the terms of GPO#_____; (iii) Per the terms of MPA #_____; or (iv) Per the terms of SAA #_____. Include the applicable quote/agreement number with the reference on the purchase order.
In addition, source of funds (choice of: Cash/Third Party Loan or GE HFS Lease or GE HFS Loan or Third Party Lease through _____), must be indicated, which may be done on the quote signature page (for signed quotes), on the purchase order (where quotes are not signed) or via a separate written source of funds statement (if provided by GE Healthcare)."

GE Healthcare

Date: 01-06-2016
Quote #: PR10-C60977
Version #: 2

01-06-2016

GPO Agreement Reference Information

Customer:	Kelly McFarland
Contract Number:	PLEASE SEE PREMIER CONTRACT # BELOW
Start Date:	
End Date:	09/30/2018
Billing Terms:	80% on Delivery/ 20% on Acceptance or First Patient Use
Payment Terms:	NET 30
Shipping Terms:	FOB Destination

NOTICE REGARDING COMPUTED TOMOGRAPHY ("CT") PRODUCTS. This notice applies only to the following GE Healthcare products: CT: Revolution CT and EVO, Optima 680 CT and Optima 520 CT. GE Healthcare has reclassified several advanced software tools and associated documentation to a GE Healthcare Technical Service Technology package that GE Healthcare feels will bring greater value and interest to our customers. GE Healthcare will continue to provide trained Customer employees with access to the GE Healthcare Technical Service Technology package under a separate agreement. GE Healthcare will continue to provide customers and their third party service providers with access to software tools and associated documentation in order to perform basic service on the CT, MR and NM products listed above upon a request for registration for such access. This will allow GE Healthcare to react faster to the future service needs of GE Healthcare customers. If you have any questions, you can contact your sales Service Specialist.

Offer subject to the Terms and Conditions of the applicable Group Purchasing Agreements currently in effect between GE Healthcare and Premier Purchasing Partners, L.P. include PP-IM-265(CT) and PP-IM-269 (Molecular Imaging).

GE Healthcare

Date: 01-06-2016
Quote #: PR10-C60977
Version #: 2

Qty	Catalog No.	Description	Ext Sell Price
1		**Optima - CT660 System ***	
1	S7660TB	Optima CT660 64 slice System with ASiR	$394,050.00

The Optima CT660 is GE's latest generation intelligent CT system. It is a scalable 64 slice platform including advanced innovations from our Discovery Series (TM). This means that Optima CT660 is capable of addressing your advanced clinical needs. Optima CT660 with Xtream gantry display is ready to help you deliver personalized care for your demanding patient schedule and quickly manage your unscheduled ED exams. With the Optima CT660 you get fast, high-quality acquisition at optimized dose for patients young and old, large and small, across a wide spectrum of procedures: angiography, brain, chest, abdomen, orthopedic, and more.

Key Features:

- Exclusive V-Res (TM) Detector technology providing 20mm of 0.625mm or 40mm of 1.25mm acquisitions
- Volara* XT Digital DAS (Data Acquisition System): The Volara* XT digital DAS for faster sampling and improved image performance and reduced artifacts
- Fast coverage speed of 110mm/sec
- Full 360 degree rotation in 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0 and 2.0 (axial) seconds, ensuring short breath holds, comfortable exams and flexibility to customize protocols for unique patient needs with minimal coverage impact
- Routine thin slice scanning, as thin as 0.625mm or 1.25mm optimizing the use of thinner images for sagittal, coronal, oblique, and volume image presentation and review
- The overlapped reconstruction feature enables 192 slices reconstruction in helical acquisitions and 64 slices per rotation in axial mode delivering improved Z-axis visualization performance relative to non-overlapped reconstruction
- Highly efficient compact geometry design delivering optimum performance of the x-ray tube and generator
- Image decomposition to:
  - Retrospective thin images from data sets where thicker images were initially reconstructed
  - Facilitates more detailed image analysis
  - Improves 3D and reformat visualization
- ASiR reconstruction technology may enable reduction in pixel noise

Qty	Catalog No.	Description	Ext Sell Price

standard deviation (a measurement of image noise). The ASiR reconstruction algorithm may allow for reduced mA in the acquisition of images, thereby reducing the dose required (**).

- A reconstruction technology that may enable improvement in low contrast detectability(**)

(**) In clinical practice, the use of ASiR may reduce CT patient dose depending on the clinical task, patient size, anatomical location and clinical practice. A consultation with a radiologist and physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task.

Fast, User-Friendly Simultaneous Workflow:

- Advanced Workflow Platform, the next evolution of GE's workflow platform built to help you maximize productivity.
  - Delivers up to 16 images per second (ips) reconstruction
  - Image Check delivers up to 55 images per second (ips) reconstruction (340x340 matrix)
  - Up to 10 fps network transfer rates
  - Direct Multiplanar Reformats (DMPR) that enables the move from 2D review to prospective 3D review of sagittal, coronal and oblique planes automatically
  - Data Export and Interchange that allow you to easily share images with referring physicians and patients
- One Stop ED mode: Optima CT660's exclusive 12" Xtream touch display on the gantry enables unique one stop ED scanning to streamlined ED exam workflow allowing patient selection, protocol selection and confirming exam parameters directly at the gantry, without having to leave the patients side.
- Includes reference protocols and the ability to customize your own for a total of 6,840 programmable protocols
- SmartPrep with Dynamic Transition allows low dose intermittent monitoring of intravenous contrast enhancement in a user-selected section of anatomy. With Dynamic Transition when the prescribed contrast enhancement is reached the system will automatically transition from the monitoring phase to the scan phase
- 10 Prospective Multiple Reconstructions: Up to 10 reconstructions can be pre-programmed as part of the scan protocol prior to acquisition. The operator can select different start/end location, slice thickness,

Qty	Catalog No.	Description	Ext Sell Price

interval, interval reconstruction algorithms and display fields of view for each reconstruction. Assisting to prospectively prescribing the image reconstructions needed, even for complex trauma exams and freeing the user up to focus on the patient

- Remote tilt from the operator console to increase exam speed
- Built-in breathing lights with a countdown timer, so the patient does not have to guess how much longer to hold their breath
- New built-in 12-inch touch screen gantry display allows technologists to deliver personalized care by displaying the patient's name on it. When not scanning, the video of relaxing scenes or cartoons may have a calming effect on children or patients of all ages
- By using the One Step patient positioning on built-in 12-inch touch screen gantry display the bed provides automatic positioning according to the type of exam, reducing manual positioning and streamlining workflow
- In room start button mounted on gantry with countdown display, facilitates single technologist operation and improved departmental productivity
- GE software allows you to automate or build every task into the protocols to increase throughput
- Has up to 250,000 uncompressed 512 x 2 image files storage capacity, and 3,520 scan rotations, or up to 1,500 scan data files, or up to 300 exams

Dose Management Leadership:

- OptiDose management features: new bowtie filters optimized for adult and pediatric body exams, full 3D dose modulation, color coding for kids, tracking collimator hardware and software for x-ray beam tracking to name a few of GE's dose optimization features, all based on the ALARA principle
- Dynamic Z-axis tracking provides automatic and continuous correction of the x-ray beam shape to block unused x-ray at the beginning and end of a helical scan to reduce unnessary patient radiation
- 3D Dose modulation - Before the scan, clinicians must select the desired Noise Index as well as the minimum and maximum mA setting. The system automatically accounts for the changing dimensions of the patient's anatomy enabling patient to patient reproducibility in this aspect of image quality and real-time x-y-z during each scan

Qty	Catalog No.	Description	Ext Sell Price

- Tracking collimator hardware and software for x-ray beam tracking to minimize patient dose
- Filtration of the x-ay beam is optimized independently for body and head applications
- DLP (dose length product), and dose efficiency display during scan prescription provides the patient's dose information to the operator
- Dose Reporting provides access to the CTDIvol and DLP with the patient record prior and post exam. DICOM Structured Dose Report is also supported.
- Dose Check provides the user with tools to help them manage CT dose in clinical practice and is based on the standard XR-25-2010 published by The Association of Electrical and

  Medical Imaging Equipment Manufacturers (NEMA), XR-29 Compliant. Dose Check provides the following:
  - Checking against a Notification Value if the estimated dose for the scan is above your site established value
  - Checking against an Alert Value where the user needs specific authority to continue the scan at the current estimated dose without changing the scan parameters if the estimated dose exceeds the alert value
  - The ability to define Alert Values for Adult and Pediatric with age threshold
  - Audit logging and review capabilities
  - Protocol Change Control capabilities

The Advanced Reconstruction breaks through existing limits on speed, image quality and flexibility to provide an optimized volumetric workflow solution from acquisition to final report and has the capability to deliver up to 16 full fidelity images per second (ips) reconstruction and 10 fps network transfer rates.

Clinical Benefits:

- CTA runoffs
- Thin slices fast; routine use of thin slices
- Organ coverage in arterial phase
- Long helical scans
- Multi-phase organ studies
- Improved multi-planar reformats with isotropic microvoxel imaging

Qty	Catalog No.	Description	Ext Sell Price

- Fast scanning with outstanding image performance and GE's proprietary cross beam and hyperplane helical reconstruction algorithms
- System designed for optimization of z-axis resolution and dose with 0.625mm slice thickness

System Components:

Gantry:

- Advanced slip ring design continuously rotates the generator, Performix 40 X-ray tube, detector and Volara XT digital data acquisition system around the patient.
  - Aperture: 70 cm
  - Maximum SFOV: 50 cm
  - Rotational Speeds: 360 degrees in 0.4 0.5, 0.6, 0.7, 0.8, 0.9, 1.0 and 2.0 (axial) seconds
  - Tilt: +/ 30 degrees, speed 1 degree/sec
  - Remote tilt from operator's console
  - Integrated breathing lights and countdown timer
  - Integrated 12-inch touch screen on gantry with workflow features
  - Integrated start scan button with countdown timer to indicate when x-ray will turn on
- Visual readout is easy to read from the tableside or from the operator console. Gantry tilt controls are located on the side of the gantry.

Laser Alignment Lights:

- Defined internal and external scan planes to +/- 1mm accuracy
- Operate over full range of gantry tilt
- Coronal light remains perpendicular to axial light as gantry tilts

Table:

- Cantilever design for easy access
- Vertical range: 43.0 cm to 99.1 cm
- Vertical scannable range: 79.1 cm to 99.1
- Horizontal range: 1,745 mm (VT1700 Table), or 2,045 mm (VT 2000 Table)
- Horizontal speed: up to 137.5 mm/sec
- Table load capacity: 227 kg (500 lb) +/- 0.25mm positional accuracy

Qty	Catalog No.	Description	Ext Sell Price

X-ray Tube: Performix 40 metal-ceramic tube unit

- Performix 40 tube with 6.3 MHU of storage and capable of 72kW operation provides increased helical performance with greater patient throughput
- Wide range of technique (10 mA to 560 mA, in 5 mA increments) gives technologist and physician flexibility to tailor protocols to specific patient needs, while optimizing patient dose, and providing the power needed to perform a broad spectrum of examinations.
- Maximum anode heat storage capacity: 6.3 MHU
- Dual Focal Spots:
  - Small Focal Spot: 0.9 x 0.7 IEC60336:2005
  - Large Focal Spot: 1.2 x 1.1 IEC60336:2005
- Maximum power: 72 kW
- Beam collimated to 56 degree fan angle

High Voltage Generator: High Frequency on-board generator allows for continuous operation during scan.

- 72 kW Output Power
- kV: 80, 100, 120, 140 kV
- mA: 10 to 560 mA, 5 mA increments

Maximum mA for Each kV Selection (large focal spot):

- 400mA @ 80kV
- 480mA @ 100kV
- 560mA @ 120kV
- 515mA @ 140kV

V-Res Detector: The V-Res detector was designed for high performance imaging. V-Res detector benefits are:

- Solid 40mm coverage per rotation
- GE's exclusive patented detector material

Volara XT Digital DAS (Data Acquisition System): The Volara XT digital DAS dramatically reduces electrical noise for improved imaging performance.

- 2,460Hz maximum sample rate
- Effective analog to digital conversion

Optima CT660 Operator Console:

Qty	Catalog No.	Description	Ext Sell Price

- 1,792GB of total system storage
- Up to 250,000 512 x 2 images and 3,520 scan rotations or up to 1,500 scan data files, or up to 300 exams
- 4.7 GB DVD-R/CD-R for DICOM interchange (not recommended as a long term archive)

Image Networking: Exams can be selected and moved between the Optima CT660 CT System and any imaging system supporting DICOM protocol for network send, receive and pull/inquiry.

- Standard Auto-configuring Ethernet
- Direct Network Connection
- Supports 1GB or 1000/100/10 BaseT

DICOM Conformance Standards

- DICOM Storage Service Class
- Service Class User (SCU) for image send
- Service Class Provider(SCP)for image receive
- DICOM Query/Retrieve Service Class
- DICOM Storage Commitment Class Push
- DICOM Modality Worklist (incl. Performed Procedure Step) (through ConnectPro option)
- DICOM Print

The Optima CT660 workflow platform is designed to deliver high performance in each of these tasks:

- SmartTools Simplifies Scan Setup and Includes All Reconstructions, Filming, Archiving, Transferring Prospectively
- Workflow platform built on the LINUX operating system delivers up to 16 fps reconstruction and the fast network transfer rates of up to 10 fps
- Data Export and Interchange allow you to easily share images with referring physicians and patients
- Direct MPR that enables the move from 2D review to 3D image review of axial, sagittal, coronal and oblique planes automatically
- Exam Split delivers the capability to split a series of patient images into separate groups for networking
- Exam Rx desktop environment provides the clinical tools desired for fast, efficient control of patient studies. Exam Rx tools include patient

Qty	Catalog No.	Description	Ext Sell Price

scheduling and data entry, exam protocol selection, protocol viewing and editing, scan data acquisition, image display and routine analysis, AutoTransfer, AutoStore, and AutoFilm

- ImageWorks is a desktop environment designed to take advantage of the Optima CT660 CT System advanced computer systems. Standard features include archive, network and manual film control, as well as some advanced image processing such as Direct multi-planar reformatting (DMPR), multi-projection volume rendering (MPVR) and display. The ImageWorks desktop also provides a gateway for DICOM 3.0 image transactions, either through a local area network, or via DICOM-formatted media
- Volume Viewer includes Volume Analysis, Volume Rendering and Navigator software. This combination allows the user to render volumetric data in three dimensions for use in analysis of patient condition, i.e. CT Angiography (CTA), gives more information on the spatial relationships of structures than standard 3D,

  allows the translucent visualization of structures for improved problem solving, can perform "virtual endoscopies" of air and contrast fileed structures. Enables 3D reformats in any plane, ALL on the Xtream ready console.

Scan Modes: The Optima CT660 system can perform virtually any clinical application due to its wide variety of scan modes. Helical scan mode offers continuous 360 degree scanning with table incrementation and no interscan delay. Axial scan mode allows for up to 64 contiguous axial slices acquired simultaneously with each 360 degree rotation.

- Helical scanning pitches: 0.516:1, 0.984:1, 1.375:1
- Retrospective reconstruction image thicknesses: 64 x 0.625

Scan Enhancements:

- Anatomical programmer: a ten region anatomical selector allows quick and easy access to user programmable protocols and a separate selector for adult and pediatric exams with greater than 6,840 protocol storage available
- Protocols include preset scan time, kV, mA, scan mode, image thickness and spacing, table speed, scan FOV, display FOV and center, recon algorithm, and special image acquisition and processing options like DMPR
- Any scan parameters may be edited for each scan or all scans - either

Qty	Catalog No.	Description	Ext Sell Price

before or during an exam. The number of scans may also be easily changed

- AutoScan: Automates longitudinal table movement and start of each scan
- Auto-Voice: 3 preset (9 languages) and 17 user defined messages automatically deliver patient breathing instructions, especially useful for multiple helical scanning
- Trauma Patient: Allows patient scans and image display/analysis without entering patient data before scanning
- Reconstruction Algorithms: Soft Tissue, Standard, Detail, Chest, Bone, Bone Plus, Lung, and Edge

For US and Canadian Customers, this quotation includes access to the DoseWatch Explore application for a period of time concurrent with the system warranty. DoseWatch Explore is an introductory dose management software application that provides you secure access, via any PC with internet access, to dose and protocol data from this system. An InSite connection to the system and completion of the registration process is required to use the DoseWatch Explore application.

Warranty: The published Company warranty in effect on the date of shipment shall apply. The Company reserves the right to make changes. All specifications are subject to change. Regulatory compliance: This product is designed to comply with applicable standards under the radiation control for Health and Safety Act of 1968.

Laser alignment devices contained within this product are appropriately labeled according to the requirements of the Center for Devices and Radiological Health.

Siting Considerations: See the Pre-Installation manual for details of the siting requirements for the Optima CT660.

This product is a CE-compliant device that satisfies IEC60601-1:1998 and applicable collateral and particular standards, including regulations regarding Electro-Magnetic Compatibility (EMC) and Electro-Magnetic Interference (EMI), pursuant to IEC-60601-1-2:2004.

This product complies with NEMA Standard 29-2013 / MITA Smart Dose Standard.

1	B7590EN	English Keyboard Kit	Incl.

English Keyboard Kit

GE Healthcare

Date: 01-06-2016
Quote #: PR10-C60977
Version #: 2

Qty	Catalog No.	Description	Ext Sell Price
1	B7660MR	Optima CT660 Standard cable set Optima standard cable set	Incl.
1	B75092GT	VT1700V The Optima 1700 table enables volume scanning. Key features of this 1700 table include: easy patient access by lowering to <17 inches from the floor, 500lb seight capacity, up to 1700mm scannable range, 137.5 mm/sec travel time, real-time Z-axis position feedback between gantry and table.	Incl.
1	B7900LC	Low Dose CT Lung Screening Option with Indication For Use This option provides lung screening reference protocols that are tailored to the CT system, patient size (small, average large), and the most current recommendations from a wide range of professional medical and governmental organizations. Now, qualifiedi GE Healthcare CT scanners with this option are formally indicated for, and can be confidently used by physicians for low dose CT lung cancer screening of identified high-risk patient populations. These protocols deliver low dose, short scan times, and clear and sharp images for the detection of small lung nodules. Early detection from an annual lung screening with low dose CT in high-risk individuals can prevent a substantial number of lung cancer-related deaths.ii All new GE 64-slice and greater CT scanners, and virtually all of the 16-slice CT scanners that GE Healthcare sells are qualified for this screening option. This solution is also available to thousands of qualified GE CT scanners currently in use, increasing access to the quality scanners that satisfy both patient and physician needs. The new protocols, do include the choice for the user to be able to utilize GE Healthcare's industry-leading technologies such as ASiRTM, ASiR-VTM and VeoTM that are designed to reduce image noise, which is undesirable for physicians looking for small nodules. This option contains two documents. Lung Cancer Screening Option Reference Protocol Guide, and the Lung Cancer Screening Option User Manual / Technical Reference Manual i The following GE Healthcare CT scanners are qualified to receive the new low dose CT Lung Cancer Screening Option: LightSpeed 16, BrightSpeed Elite, LightSpeed Pro16, Optima CT540, Discovery CT590 RT, Optima CT580, Optima CT580 W, Optima CT590 RT, LightSpeed Xtra, LightSpeed RT16, LightSpeed VCT, LightSpeed VCT XT, LightSpeed VCT XTe, LightSpeed VCT Select, Optima CT660, Revolution EVO, Discovery CT750 HD, Revolution GSI, Revolution. ii Moyer V. Screening for Lung Cancer: U.S. Preventive Services Task Force	Incl.

GE Healthcare

Date: 01-06-2016
Quote #: PR10-C60977
Version #: 2

Qty	Catalog No.	Description	Ext Sell Price
		Recommendation Statement. Ann Intern Med. 2014;160:330-338. http://www.uspreventiveservicestaskforce.org/Page/Document/RecommendationStatementFinal/lung-c	
1	B75002CD	CT Operator Console Desk The Freedom workspace is an ergonomic working environment specifically designed for use with the GE Healthcare imaging systems. The sleek table design enables the efficient use of space while enhancing clinical workflow and technologist comfort. The Freedom workspace provides a minimalist footprint to improve patient visibility and giving the user easier access to patients in the imaging suite. It offers sit/stand and horizontal/vertical monitor flexibility. It can also help reduce noise and heat with remote location options of the console. The non-adjustable Freedom workspace version is 1300mm long x 895mm wide x 850mm height and weighs 55.8kg.	$370.00
1	B7660B	Chair Chair for CT scanner	$111.00
1	B7850TC	REAR CABLE COVER Cable Cover for LightSpeed Gantry. The Covers will Provide Protection for the Cables & the Product.	$127.65
1	E4502AB	90 Amp Main Disconnect Panel for CT The 90Amp CT system main disconnect panel (MDP) serves as the main facility power disconnect source installed ahead of the system PDU. The MDP will disconnect system power on first loss of incoming power, helping to prevent damage to system components. It also includes an automatic restart control circuit which restores power to the CT System PDU after a power outage. • Can reduce installation time and cost by eliminating delays in obtaining individually enclosed components and on site assembly (ex: main circuit breaker, feeder overcurrent devices, magnetic contactors and UPS emergency power off are combined into a single panel) • Configuration flexibility - can be used as a stand-alone main disconnect or with the optional partial system UPS. (On systems where the optional partial system UPS is used the main disconnect panel also provides NEC mandated emergency power off control to both the PDU and UPS	$5,879.20

Qty	Catalog No.	Description	Ext Sell Price
		• Designed and tested for GEHC CT products Specifications: • Automatic restart incorporates an adjustable time delay to delay main power until the power has stabilized for 5 seconds • One flush wall mounted remote emergency off pushbutton furnished with each system • UL, cUL and CE labeled	
1	E8007ND	Medrad Stellant D Injector - Ceiling Mount (Short Post) Medrad Stellant D CT Injector with Counterpoise System Mount and Dual Injector Head with Saline Flush Capability. Requires E8007NZ Mounting Plate be added to the order...E	$33,600.00
1	E8007PJ	OCS III MOUNTING PLATE OCS III MOUNTING PLATE	$520.00
1	E8007PS	Medrad P3T Abdomen Option Medrad P3T Abdomen Option	$4,400.00
1	E8007BA	Medrad P3T PA - Pulmonary Angiography Option Medrad P3T PA - Pulmonary Angiography Option	$4,400.00
1	E8016AZ	CT Table Slicker with Cushion - 1700 Systems (2-pc Set) CT Table Slicker with Cushion - 1700 Systems (2 Piece Set) FEATURES/BENEFITS • Two-piece, sealed slicker cushion set has comfort pads enclosed inside the slicker cover and extender cover • Durable, clear PVC plastic cover facilitates faster, more thorough cleanup of blood and fluids • Increase system uptime by protecting table from spills and particulate contaminants • Thermo-sealed seams and flaps prevent contaminate buildup in hard to clean areas COMPATIBILITY • VCT with GT 1700 Table, CT HD750	$336.00

GE Healthcare

Date: 01-06-2016
Quote #: PR10-C60977
Version #: 2

Qty	Catalog No.	Description	Ext Sell Price
1	E8016BA	CT Footswitch Slicker - 2000 & 1700 Systems CT Footswitch Slicker - 2000 & 1700 Systems The footswitch slicker for CT VCT 2000 and 1700 systems is made of durable, clear PVC plastic that protects the footswitch and facilitates faster, more thorough cleanup of contamination caused by blood and other body fluids. Cover is held securely in place with Velcro...H	$40.00
1	W0113CT	TiP CT Basic Training 6 Days Onsite 10 Hours TVA TiP CT Basic Training 6 Days Onsite 10 Hours TVA TiP Applications CT Basic Training for LightSpeed, LightSpeed VCT and BrightSpeed Systems includes: • 6 onsite days covered in two site • 10 hrs. TVA All elements of the programs are completed within 36 months post installation. Onsite training and TVA are delivered Monday through Friday between 8AM and 5PM. T&L expenses are included.	$16,400.00
1	R23053AC	STANDARD SCE PACK L3 W Standard level 3 service package delivered for the warranty period	Incl.
1		**Optima CT660 Installed Base**	
1	S7660EC	Optima ED Enhancement Package The Optima CT660 2nd edition ED productivity package includes: Emergency (ED) mode, and up to 55 fps Image Check reconstruction. Emergency patient mode: Optima CT660 series has a dedicated User Interface (UIF) for emergency cases to start examination quickly. With Optima CT660's exclusive 12" Xtream touch display on the gantry exceptional one stop ED scanning mode provides streamlined ED exam workflow allowing patient selection, protocol selection and confirming exam paramters directly at the gantry, without having to leave the patient, in as few as five touches. Image Check: Image Check provides 55 fps reconstruction of 340x340 matrix images for confirming anatomical coverage in real time and tracking to up to 1800mm length with less than 1 sec delay. Reconstruction time is up to 55 fps.	$20,000.00

GE Healthcare

Date: 01-06-2016
Quote #: PR10-C60977
Version #: 2

Qty	Catalog No.	Description	Ext Sell Price
1	B76702FJ	UW PROTOCOL CT660	$5,000.00

Dose-optimized protocols designed, developed and validated by a team of physicians, physicists and technologists at the University of Wisconsin -Madison School of Medicine and Public Health. Tested in a variety of settings including outpatient imaging centers, the American Family Children's Hospital and one of the nation's premier academic medical centers, these protocols are designed to be used "as is", requiring no adjustment by the operator. The protocols cover multiple clinical applications and are designed for patients of varying sizes. Each protocol has been designed to deliver diagnostic quality images while using as little dose as reasonably possible. Included with the protocols is a 300 plus page manual containing information on the proper patient set-up, contrast parameters, scan range instructions, reformatting instructions and technical acquisition parameters for each protocol.

Quote Summary:

Brightspeed 16 Power Elite Trade In	**($65,000.00)**
Total Quote Net Selling Price	**$420,233.85**

(Quoted prices do not reflect state and local taxes if applicable. Total Net Selling Price Includes Trade In allowance, if applicable.)

GE Healthcare

Date: 01-06-2016
Quote #: PR10-C60977
Version #: 2

Options

(These items are not included in the total quotation amount)

Qty	Catalog No.	Description	Ext Sell Price	
1	B7877ZS	SmartStep with Monitor SmartStep for CT Scanner Systems (Includes In -Room Monitor & Boom) SmartStep Enables an Imaging Mode for Performing Biopsies and Other Interventional Procedures. An In-room Monitor, Hand Held Controller, X-ray Exposure Foot Pedal and Cradle Handle Provide In-room Control for Image Acquisition and Image Review. The Hand Held Controller Provides the Operator with Controls to Prepare the Scanner for Imaging, to Turn Alignment Lights On and Off, to Move the Cradle, Review Images and Adjust the Window Width and Level; and the Foot Switch Provides In-room Control of X-ray On. A Highly Functional Image Display Presents a Set of 3 Interventional Images in 3 Viewports, a Free Viewport, and Timers for the Remaining and Accumulated Time. The Display Control Panel Provides Roam, Zoom, Magnify, Measurement, Annotation, Grid, Image Orientation, and Save Screen Image Review Capabilities. Data Acquisition Includes a 4i Data Acquisition Mode Using 4x1.25 mm, 4x2.25 mm, and 4x3.75 mm Detector Configurations and a 3i Reconstruction Mode to Create 2.5, 3.75 and 7.5 mm Thick 512 Matrix Images. All Scan Fields of View and Reconstruction Algorithms are Available with 0.8s and 1.0s Gantry Rotation Speed. System Includes the In-room Monitor & Boom .	$16,650.00	X_____
1	B7880MR	Smart MAR - Revolution EVO or Optima CT660 MAR (Metal Artifact Reduction) software MAR helps reduce photon starvation, beam hardening and streak artifacts caused by high Z materials in the body, such as hip implants. The clarity of MAR images is addressing the challenges posed by metal artifacts, helping clinicians accurately contour targets and critical organs. MAR offers: Exceptional image quality. MAR is based on the latest in GE Healthcare smart technology, which uses a novel	$22,200.00	X_____

GE Healthcare

Date: 01-06-2016
Quote #: PR10-C60977
Version #: 2

Qty	Catalog No.	Description	Ext Sell Price	
		three-step, sinogram-based iterative algorithm. Streamlined workflow. MAR requires only one scan, making the process of obtaining a corrected image fast and efficient. Dose conscious. MAR requires only one acquisition. Patient comfort. The efficient, single-scan process helps to reduce patient time inside the scanner. Versatility. MAR is designed to enhance clarity across a range of images including scans of hip implants, dental fillings, screws and other metal objects.		
1	B7999ZA	2 Phase Uninterruptible Power Supply Uninterruptible Power Supply Exide Uninterruptible Power Supply. Custom Designed Firmware to Interconnect with LightSpeed Pro, LightSpeed RT, Optima and BrightSpeed Systems. The UPS Primarily Backs Up the System Computer Functions. Bridges Short Power Outages and Provides Time for Crossover from Normal Main Power to Emergency Power. Must be Located Within Eight Feet of the PDU.	$6,882.00	X_____

(Quoted prices do not reflect state and local taxes if applicable. Total Net Selling Price Includes Trade In allowance, if applicable.)

Exhibit D

PROPOSED CAPITAL COSTS

Project Name: Replacement CT Scanner

Proponent: Transylvania Regional Hospital

A.	**Site Costs**		
(1)	Full purchase price of land		$
	Acres _____ Price per Acre		$
(2)	Closing costs		$
(3)	Site Inspection and Survey		$
(4)	Legal fees and subsoil investigation.		$
(5)	Site Preparation Costs	$	
	Soil Borings	$	
	Clearing-Earthwork	$	
	Fine Grade For Slab	$	
	Roads-Paving	$	
	Concrete Sidewalks	$	
	Water and Sewer	$	
	Footing Excavation	$	
	Footing Backfill		$
	Termite Treatment	$	
	Other (Specify)	$	
	Sub-Total Site Preparation Costs	$	
(6)	Other (Specify)		$
(7)	**Sub-Total Site Costs**		**$ 0**
B.	**Construction Contract**		
(8)	Cost of Materials		
	General Requirements		
	Concrete/Masonry		
	Woods/Doors & Windows/Finishes		
	Thermal & Moisture Protection		
	Equipment/Specialty Items		
	Mechanical/Electrical		
	Other (Specify)		
	Sub-Total Cost of Materials		$
(9)	Cost of Labor		$
(10)	Other (Specify) - const contract		$ 394,000
(11)	**Sub-Total Construction Contract**		**$ 394,000**
C.	**Miscellaneous Project Costs**		
(12)	Building Purchase		$
(13)	Fixed Equipment Purchase/Lease		$ 421,000
(14)	Movable Equipment Purchase/Lease		$ 72,000
(15)	Furniture		$ 84,000
(16)	Landscaping		$
(17)	Consultant Fees		
	Architect and Engineering Fees		$ 64,000

	Legal Fees	$_____
	Market Analysis	$_____
	Other (Specify)	$_____
	Sub-Total Consultant Fees	$_____
(18)	Financing Costs (e.g. Bond, Loan, etc.)	$_____
(19)	Interest During Construction	$_____
(20)	Other (Specify)__PM costs & contingency	$__97,000_____
(21)	**Sub-Total Miscellaneous**	**$**_____
(22)	**Total Capital Cost of Project** (Sum A-C above)	$__1,132,000_____

I assure that, to the best of my knowledge, the above capital costs for the proposed project are complete and correct and that it is my intent to carry out the proposed project as described.

(Proponent - Signature of Officer)

MHS Exec Director, Facilities

(Title of Officer)