



DEPARTMENT OF HEALTH AND HUMAN SERVICES  
DIVISION OF HEALTH SERVICE REGULATION



ROY COOPER  
GOVERNOR

MANDY COHEN, MD, MPH  
SECRETARY

MARK PAYNE  
DIRECTOR

VIA EMAIL ONLY

February 13, 2018

Dee Jay Zerman

**Exempt from Review – Replacement Equipment**

**Record #:** 2509  
**Facility Name:** UNC Rockingham Hospital (formerly Morehead Memorial Hospital)  
**FID #:** 943359  
**Business Name:** UNC Rockingham Health, Inc.  
**Business #:** 2790  
**Project Description:** Replace existing CT scanner  
**County:** Rockingham

Dear Ms. Zerman:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that based on your letter of February 8, 2018, the above referenced proposal is exempt from certificate of need review in accordance with N.C. Gen. Stat. §131E-184(a)(7). Therefore, you may proceed to acquire without a certificate of need the Siemens Somatom Definition AS eco CT scanner to replace the Philips Brilliance CT scanner, Serial # 9085. 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, Radiation Protection 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,

Celia C. Inman  
Project Analyst

Martha J. Frisone  
Chief, Healthcare Planning and  
Certificate of Need Section

cc: Construction Section, DHSR  
Radiation Protection Section, DHSR  
Sharetta Blackwell, Program Assistant, Healthcare Planning, DHSR  
Acute and Home Care Licensure and Certification Section, DHSR

**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





James T. Hedrick Building  
 211 Friday Center Drive, Ste G014  
 Chapel Hill, NC 27517

February 8, 2018

Ms. Celia Inman  
 Healthcare Planning and Certificate of Need Section  
 Division of Health Service Regulation, DHHS  
 2704 Mail Services Center  
 Raleigh, NC 27699-2704

RE: Request for Exemption / Replacement of CT Scanner / UNC Rockingham Hospital  
 (formerly Morehead Memorial Hospital) / Rockingham County

Dear Ms. Inman:

UNC Rockingham Hospital is planning to replace one of its existing CT scanners and is requesting confirmation that the replacement of this equipment is exempt from review pursuant to §NCGS 131E-184(7). The CT scanner to be replaced is located in UNC Rockingham Hospital at 117 E. Kings Highway, Eden, NC. The scanner will be replaced for \$997,753.59 and will be replaced with equipment comparable to the existing equipment. The existing lab was placed in service in 2007, and is used on a daily basis. The existing equipment requires replacement due to its age and declining image quality. This type of situation leads to added costs, operational delays, and patient, staff and physician dissatisfaction.

We are supplying the following information that the CON Section has requested in the past as a part of its general information request for an equipment replacement.

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

	<i>Existing Equipment</i>	<i>Replacement Equipment</i>
<i>Type of Equipment (List each component)</i>	CT Scanner	CT Scanner
<i>Manufacturer of Equipment</i>	Philips	Siemens Medical Solutions USA, Inc.
<i>Tesla Rating for MRIs</i>	Not applicable	Not applicable
<i>Model Number</i>	Brilliance 40 slice CT	Somatom Definition AS eco 64 slice CT
<i>Serial number</i>	9085	TBD
<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>	August 2007	To be 2018
<i>Does Provider Hold Title to Equipment or</i>	hospital owns	hospital will own

<i>Have a Capital Lease?</i>		
<i>Specify if Equipment Was/Is New or Used When Acquired</i>	Was new	Will be new
<i>Total Capital Cost of Project (Including Construction, etc.) See Exhibit 1 and 2.</i>	\$1,200,998.88	\$443,562.59 construction + \$554,191 equipment = \$997,753.59
<i>Total Cost of Equipment</i>	\$1,143,332.25	\$554,191
<i>Fair Market Value of Equipment</i>	zero book value (fully depreciated)	\$554,191
<i>Net Purchase Price of Equipment</i>	\$1,143,332.25	\$554,191
<i>Locations Where Operated</i>	UNC Rockingham Hospital (previously Morehead Memorial Hospital)	UNC Rockingham Hospital (previously Morehead Memorial Hospital)
<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>	NA	No change
<i>Percent of Change in Per Procedure Operating Expenses (by Procedure)</i>	NA	No change
<i>Type of Procedures Currently performed on Existing Equipment</i>	Diagnostic CT imaging	NA
<i>Type of Procedures New Equipment is Capable of Performing</i>	NA	Diagnostic CT imaging

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 existing Philips Brilliance 40 slice CT scanner will be replaced with a Somatom Definition AS eco 64 slice CT scanner. Both systems are used to perform diagnostic adult and pediatric computed tomographic imaging.

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

*Response:* We were not able to obtain a product brief for the Philips Brilliance 40 slice CT scanner. The specifications of the proposed replacement Somatom Definition AS eco 64 slice CT scanner are included in the quote attached as Exhibit 2. Both scanners perform the same type of CT imaging procedures.

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

*Response:* A copy of the original purchase order and quote are not available. The original costs are included in the Equipment Comparison table above.

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

*Response:* Not applicable. The equipment does not have a title and will not be 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:* Copies of the quote received from Siemens for the replacement CT scanner is contained in Exhibit 2.

*8. A letter from the person taking possession of the existing equipment that acknowledges the existing 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:* As indicated in the letter contained in Exhibit 3, Siemens will de-install and take possession of the unit and remove it from the site as the replacement unit is installed. The unit being replaced will not be used in NC without obtaining certificate of need approval if required.

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

*Response:* UNCH's existing operational CT Scanners are clearly identified on the most Licensure Renewal Application form on file with DHSR. A copy of the 2018 LRA can be provided upon request.

Attached as Exhibit 1, is a completed 'Proposed Total Capital Cost of Project' form which projects the total capital cost of this replacement project to be \$997,753.59 for the CT scanner replacement, including removal of the existing equipment and the installation of the replacement unit. The total capital cost includes all costs required to make the scanner operational. Exhibit 1 also contains the certified cost estimate for the construction. Exhibit 4 includes copies of the line drawings for the project. Since the room already exists, minor equipment and furniture will be reused. The valid equipment quote is contained in Exhibit 2. Beyond the items included in these estimates, no additional renovations, equipment or furniture will be required for this project.

Please do not hesitate to contact me at 984-974-1243 should you require any additional information regarding the replacement of this equipment.

Sincerely,



Dee Jay Zerman, System Director  
Regulatory Planning  
UNC HCS

**PROPOSED TOTAL CAPITAL COST OF PROJECT**

**UNC Rockingham Hospital CT Scanner Replacement**

**A. Site Costs**

(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		
(6) Other (Specify)	\$0	
(7) Sub-Total Site Costs		\$0

**B. Construction Contract**

(8) Cost of Materials		
General Requirements	\$0	
Concrete/Masonry	\$0	
Woods/Doors & Windows/Finishes	\$0	
Sub-Total Cost of Materials		\$0
(9) Cost of Labor		\$0
(10) Other (Specify)	\$443,562.59	
(11) Sub-Total Construction Contract		\$443,562.59

**C. Miscellaneous Project Costs**

(12) Building Purchase		\$0
(13) Fixed Equipment Purchase	\$554,191.00	
(14) Movable Equipment Purchase		\$0
(15) Furniture		\$0
(16) Landscaping		\$0
(17) Consultant Fees		
Architect and Engineering Fees	\$0	
Sub-Total Consultant Fees		\$0
(18) Financing Costs (e.g. Bond, Loan, etc.)		\$0
(19) Interest During Construction		\$0
(20) Other (Construction Contingency)		\$0
(21) Sub-Total Miscellaneous		\$554,191.00

<b>(22) <u>Total Capital Cost of Project (Sum A-C above)</u></b>		<b>\$997,753.59</b>
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01 February 2018

To Marc Tetreau  
 UNC Rockingham Healthcare  
 117 E. Kings Highway  
 Eden, NC 27288

From Julia Badorrek  
 RdM Architecture  
 208 South Village Lane, Suite B  
 Davidson, NC 28036

Project UNC Rockingham CT Scan Replacement and Renovation  
 RdM No. 1801.01



To the best of our knowledge, please find below, our statement of Probable Construction Costs. This statement is based on the RdM Architecture drawings and documents dated, 01 February 2018, our current understanding of the existing conditions and recent construction economic conditions. This estimate of probable cost includes: demolition, construction costs, professional fees and reimbursable expenses, local jurisdiction plan review fees. Fixtures, equipment, furniture, artwork, accessories, softscape, security, signage and IT/IS are estimated at 18% of total construction cost. Statement of probable cost is not a guarantee of construction costs or construction bids.

ITEM	SF AREA*	Cost/SF	COST
Demolition	925 SF	\$14.00	\$12,950.00
Exterior Modifications			\$0.00
Interior Modifications	1308 SF	\$240.00	\$313,920.00
<b>Sub-Total</b>	<b>1308 SF</b>	<b>\$254.00</b>	<b>\$326,870.00</b>
Contingency		15%	\$49,030.50
<b>Total-Construction</b>			<b>\$375,900.50</b>
Professional Fees			\$41,650.00
Soft Costs		18%	\$67,662.09
<b>Total-Project</b>	<b>1308 SF</b>	<b>\$339.12</b>	<b>\$443,562.59</b>

Architecture Planning  Interiors Integrated Project Delivery

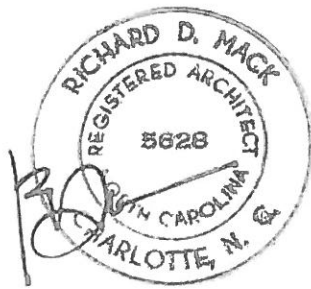
PO Box 1029 . Davidson NC 28036 . www.rdmgroup.net . 704.987.9727

01 February 2018  
UNC Rockingham

Page 2 of 2

Notes:

1. (\*) USF = Useable Square Feet – preliminary estimate; subject to change
2. Costs do not include hazardous material identification, testing or remediation
3. Assumes all utilities and systems are adequate for this use and are in good working condition.
4. Does not include cost of CT Scanner.
5. Assumes all pre-design electrical metering, HVAC T&B, etc. are by Owner and not included.
6. Duration of work is expected to be per the RdM project schedule.
7. Please note that AE/Interiors fees and reimbursable expenses are separate from total construction costs.





**Siemens Medical Solutions USA, Inc.**  
 40 Liberty Boulevard, Malvern, PA 19355  
 Fax: (866) 309-6967

**SIEMENS REPRESENTATIVE**  
 Mathew Hayes - (336) 263-4273

**PRELIMINARY PROPOSAL**

Customer Number: 0000002798

Date: 2/5/2018

**MOREHEAD MEMORIAL HOSPITAL**  
 117 E KINGS HWY  
 EDEN, NC 27288

<b>Quote Number:</b>	<b>1-KLUU8E Rev. 0</b>
<b>Groups Purchasing Organization</b>	<b>MedAssets</b>
<b>Contract Terms and Conditions</b>	<b>MedAssets</b>
<b>Pricing Terms</b>	<b>00% Down, 80% Delivery, 20% Installation Free On Board: Destination</b>
<b>Price Valid Through</b>	<b>9/30/18</b>
<b>Trade Information</b>	<b>Philips</b>
<b>Note</b>	<b>Pricing contingent on concurrent POS Service contract execution</b>

**SOMATOM Definition AS eco (64-slice Configuration)**

<b>Qty</b>	<b>Part No.</b>	<b>Item Description</b>
1	14430096	<p><b>RS SOMATOM Definition AS (64slice)</b></p> <p>The SOMATOM Definition AS (64-slice configuration) is Siemens' state-of-the-art single source CT that provides the possibility to maximize clinical outcome and to minimize radiation dose.</p> <p>Using Siemens' z-Sharp technology the system can provide high spatial resolution. The fast rotation time of 0.33 seconds (0.3 s optional) delivers excellent temporal resolution.</p> <p>With this, the SOMATOM Definition AS is set to raise the standard of patient-centric productivity with FAST CARE Technology.</p> <p>With Siemens' FAST - Fully Assisting Scanner Technologies - the SOMATOM Definition AS can simplify typically time consuming and complex procedures during a CT examination: the scanning process gets more intuitive and the results become more reproducible.</p> <p>The CARE technology includes many unique features like CARE kV that sets the ideal voltage for every examination and adjusts the respective scan parameters or industry's first Adaptive Dose Shield that prevents clinically irrelevant over radiation in spiral scanning.</p> <p>Additionally, its large bore of 78 cm and a table load capacity of up to 307 kg (optional) opens CT to all patients, meaning that virtually no patient is excluded. And even for CT-guided interventional procedures 2D Basic Intervention and HandCARE(tm) is already included. A 3D intervention suite is optional available.</p> <p>Optionally the system can be equipped with iterative reconstruction and iMAR for iterative metal artifact reduction.</p>
1	14442795	<p><b>RS ecoline CT System Delivery</b></p> <p>Siemens ecoline systems have already been in use and are equipped with current software and hardware versions via Siemens Refurbished Systems based on stringent quality standards. In terms of their appearance, functionality, safety and reliability, they are comparable to a new system. Therefore the warranty for ecoline systems is 12 month provided like new systems. For x-ray tubes special warranty conditions apply for high-vacuum elements like new systems.</p>



PRELIMINARY PROPOSAL

Qty	Part No.	Item Description
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Important note:

This offer is non-binding, subject to prior sale to other interested parties.

1	14426919	<p><b>RS SAFIRE #AWP</b></p> <p>The Sinogram Affirmed Iterative Reconstruction (SAFIRE) enhances spatial resolution, reduces image noise and increases sharpness by introducing multiple iteration steps in the reconstruction process. The resulting improved image quality enables to reduce dose by up to 60%*.</p> <p>*In clinical practice, the use of SAFIRE may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. The following test method was used to determine a 54 to 60% dose reduction when using the SAFIRE reconstruction software. Noise, CT numbers, homogeneity, low-contrast resolution and high contrast resolution were assessed in a Gammex 438 phantom. Low dose data reconstructed with SAFIRE showed the same image quality compared to full dose data based on this test. Data on file.</p>
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**RS SAFIRE #AWP**

The Sinogram Affirmed Iterative Reconstruction (SAFIRE) enhances spatial resolution, reduces image noise and increases sharpness by introducing multiple iteration steps in the reconstruction process. The resulting improved image quality enables to reduce dose by up to 60%\*.

\*In clinical practice, the use of SAFIRE may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. The following test method was used to determine a 54 to 60% dose reduction when using the SAFIRE reconstruction software. Noise, CT numbers, homogeneity, low-contrast resolution and high contrast resolution were assessed in a Gammex 438 phantom. Low dose data reconstructed with SAFIRE showed the same image quality compared to full dose data based on this test. Data on file.

1	14445840	<p><b>RS iMAR #AWP</b></p> <p>The iMAR metal artifact reduction algorithm combines three successful approaches (beam hardening correction, normalized sinogram inpainting and frequency split). This allows to reduce metal artifacts caused by metal implants such as coils, metal screws and plates, dental fillings or implants.</p> <p>iMAR is compatible with extended FoV, the extended CT scale as well as dose reduction features.</p> <p>Along with the algorithm comes the simple user interface of iMAR enabling easy reconstruction of clinical images with reduced metal artifacts.</p>
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**RS iMAR #AWP**

The iMAR metal artifact reduction algorithm combines three successful approaches (beam hardening correction, normalized sinogram inpainting and frequency split). This allows to reduce metal artifacts caused by metal implants such as coils, metal screws and plates, dental fillings or implants.

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Along with the algorithm comes the simple user interface of iMAR enabling easy reconstruction of clinical images with reduced metal artifacts.

1	14442484	<p><b>RS FAST Planning #AWP</b></p> <p>Immediate, organ-based setting of scan and recon ranges aiming for a faster and more standardized workflow at the scanner</p>
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**RS FAST Planning #AWP**

Immediate, organ-based setting of scan and recon ranges aiming for a faster and more standardized workflow at the scanner

1	14457416	<p><b>RS FAST Adjust</b></p> <p>FAST Adjust: assists the user to handle system settings in a fast and easy way by automatically solving of conflicts within user defined limits by one single click on the FAST Adjust button. The limits for scan time and tube current per scan are defined via the Scan Protocol Assistant. FAST Adjust offers an undo functionality to return to previously set values.</p>
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**RS FAST Adjust**

FAST Adjust: assists the user to handle system settings in a fast and easy way by automatically solving of conflicts within user defined limits by one single click on the FAST Adjust button. The limits for scan time and tube current per scan are defined via the Scan Protocol Assistant. FAST Adjust offers an undo functionality to return to previously set values.

1	14457419	<p><b>RS CARE kV</b></p> <p>CARE kV automatically proposes the best tube voltage based on the patient's size, the system capabilities, and the type of examination. Once the kV setting has been chosen, CARE kV also automatically adjusts other scan parameters, including the tube current. This reduces dose, maintains a constant image quality, and simplifies processes for technicians.</p>
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**RS CARE kV**

CARE kV automatically proposes the best tube voltage based on the patient's size, the system capabilities, and the type of examination. Once the kV setting has been chosen, CARE kV also automatically adjusts other scan parameters, including the tube current. This reduces dose, maintains a constant image quality, and simplifies processes for technicians.

1	14457418	<p><b>RS CARE Dashboard</b></p> <p>Visualization of activated dose reduction features and technologies for each scan range of an examination to analyze and manage the dose to be applied in the scan.</p>
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**RS CARE Dashboard**

Visualization of activated dose reduction features and technologies for each scan range of an examination to analyze and manage the dose to be applied in the scan.

1	14457417	<p><b>RS CARE Profile</b></p> <p>CARE Profile: Visualization of the dose distribution of the scan range along the topogram prior to the scan.</p>
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**RS CARE Profile**

CARE Profile: Visualization of the dose distribution of the scan range along the topogram prior to the scan.

1	14426921	<p><b>RS CARE Child</b></p> <p>Dedicated pediatric CT imaging, including 70 kV scan modes and specific CARE Dose4D curves and protocols.</p>
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**RS CARE Child**

Dedicated pediatric CT imaging, including 70 kV scan modes and specific CARE Dose4D curves and protocols.

1	14417696	<p><b>RS Extended Field of View #AWP</b></p> <p>Software program with special reconstruction algorithms that allow for visualization of objects using a FOV up to 78 cm (non-diagnostic image quality). License to use software on a single unit.</p>
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**RS Extended Field of View #AWP**

Software program with special reconstruction algorithms that allow for visualization of objects using a FOV up to 78 cm (non-diagnostic image quality). License to use software on a single unit.

1	14429826	<p><b>RS Workstream 4D #AWP</b></p> <p>WorkStream 4D further enhances the already superb workflow of the SOMATOM CT system by offering direct generation of sagittal, coronal, oblique or double-oblique reconstructed images directly from CT raw data as part of</p>
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**RS Workstream 4D #AWP**

WorkStream 4D further enhances the already superb workflow of the SOMATOM CT system by offering direct generation of sagittal, coronal, oblique or double-oblique reconstructed images directly from CT raw data as part of

**PRELIMINARY PROPOSAL**

Qty	Part No.	Item Description
		the CT protocol.
1	14429828	<b>RS DICOM SR Viewer #AWP</b> The DICOM SR (structured report) Viewer allows to read reports created with specific applications (e.g. Circulation, Lung Care, Calcium Scoring and Onco) without the application itself being on the respective computer.
1	14417704	<b>RS HeartView CT</b> Scanning technique and program for ECG controlled data acquisition and image reconstruction with SOMATOM. The package comprises: HeartView CT option on the syngo Acquisition Workplace console for the ECG-controlled acquisition and reconstruction of artifact free images of the heart. The ECG signal is supplied by an ECG device integrated in the gantry. The use of the software of this option is restricted to a single system unit.
1	14417709	<b>RS Cardio BestPhase Plus #AWP</b> Cardio BestPhase, is a software dedicated to automatically detect the optimal phase for motion-less coronary visualization. The phase is defined in either end-systole, end-diastole or both time points and automatically reconstructed.
1	14426813	<b>RS Physiological Monitoring Module</b> The Physiological Measurement Module allows to connect a 3 Channel ECG cable for ECG controlled cardiac acquisition.
1	14426733	<b>RS ECG cable IEC2</b> ECG cable, IEC2 (AHA/US color coding).
1	14417649	<b>RS Adaptive 4D Spiral</b> With the unique Adaptive 4D Spiral, dynamic CT imaging moves beyond fixed detector limitations to provide larger coverage than the actual detector size.
1	14429942	<b>RS Standard IRS</b> Reconstruction computer for the preprocessing and reconstruction of the CT raw data. The reconstruction computer contains a cluster of 2 high-performance GPU boards performing the preprocessing and reconstruction of the CT data. The raw data memory is 900 GByte. The peak recon performance is 40 frames/sec.
1	14426774	<b>RS UHR</b> UHR mode delivers Ultra High resolution in plane of up to 24lp/cm for high defined imaging of small structures such as inner ear, joints or fractures of the bone
1	14417669	<b>RS Rear cover incl. gantry panels</b> Rear Cover including gantry control panels with control functionality from the backside.
1	14417771	<b>RS Keyboard English</b> Keyboard in the above-mentioned language.
1	14426923	<b>RS Multi Purpose Table</b> Patient table to support up to 200 cm scan range. Motor-driven table height adjustment from min. 55 cm to max. 92 cm, longitudinal movement of the tabletop 200 cm in increments of 0.5 mm, positioning accuracy (horizontal) is +/- 0.5 mm. The accuracy of the repositioning (horizontal) is specified as +/- 0.25 mm. Table height can be controlled alternatively by means of foot switch (2 each on both sides of the patient table). In the case of emergency stop or power failure, the tabletop can also be moved manually in horizontal direction. Max. table load: 227 kg/500 lbs (with bariatric table top up to 307 kg/676 lbs); table feed speed: 1-200 mm/s; distance between gantry front and table base 40 cm. Positioning aids: Mattress protector, head-arm support (inclusive cushion), and non-tiltable head holders with positioning cushion set, patient restraining system for head fixation, restraining-strap set with body fixation strap that can be directly connected to the patient table top, headrest, table extension, knee-leg support.
1	14426842	<b>RS Mattress for MPT Standard TableTop</b> Replacement for the positioning mattress for Standard Multi-purpose tabletop.

PRELIMINARY PROPOSAL

Qty	Part No.	Item Description
1	14426811	<b>RS High Cap. Patient &amp; Trauma Tab.Top</b> The high capacity and trauma table top offers the capability to support up to 307 kg/676 lbs of patient weight. It allows easy positioning and transfer from and to the table, due to its flat surface. Special accessories and an extended table top width of 530 mm ensure a safe and comfortable positioning for obese patients.
1	14426812	<b>RS High Cap. Patient &amp; Trauma Acc Kit</b> The High capacity and Trauma accessory kit contains additional Patient restraint set with a width of 400mm and additional table extensions for feet and head.
1	14426863	<b>RS Mat for High Cap.&amp; Trauma Table Top</b> This mat is used for scanning non-bariatric patients on the flat, bariatric table top. Placing this mat on the bariatric table top eliminates the need to exchange the table top when non-bariatric patients are scanned. This mat has a curved profile and enables comfortable positioning of non-bariatric patients.
1	14426725	<b>RS Cooling System Air</b> Air cooling for the dissipation of heat generated in the gantry.
1	14417769	<b>RS Cable loom 16 m</b> Cable loom used to connect the power distribution system (PDS) with the gantry.
1	14417772	<b>RS Computer Desk</b> New CT desk to accommodate the control components and color monitor. Width: 1200 mm, Depth: 800 mm, Height: 720 mm.
1	14417773	<b>RS Computer Cabinet</b> New cabinet to accommodate the computer system and UPS. Matched to the design of the control console table. Width: 800 mm, Depth: 800 mm, Height: 720 mm
1	SURE_VIEW	<b>SureView</b> Provides exceptional image quality at any pitch setting, enabling you to scan faster because you can scan at any pitch without degrading image quality
1	UFC_DETECT OR	<b>UFC Detector</b> Ultra Fast Ceramics (UFC) technology is a unique type of scintillation technology material that quickly and efficiently transforms radiation from the X-ray tube into light signals. Its superb overall quantum efficiency and unique short afterglow enable time-critical X-ray detection at low doses and extremely fast data collection.
1	CT_RECON_19 2	<b>AS-64 slice configuration z-Sharp Tech.</b> The unique STRATON X-ray source utilizes an electron beam that is accurately and rapidly deflected, creating two precise focal spots alternating 4,608 times per second. This doubles the X-ray projections reaching each detector element. The two overlapping projections result in an oversampling in z-direction. The resulting measurements interleave half a detector slice width, doubling the scan information without a corresponding increase in dose. Siemens' proprietary UFC (Ultra Fast Ceramic) detectors and the corresponding 64-slice detector electronics enable a virtually simultaneous readout of two projections for each detector element - resulting in a full 64-slice acquisition. This sampling scheme is identical to that of a 64 x 0.3 mm allowing for reconstruction of 192 slices using 0.1 mm reconstruction interval increment. z-Sharp Technology, utilizing the STRATON X-ray sources and the UFC detectors, provides scan speed independent visualization of 0.33 mm isotropic voxels and a corresponding elimination of spiral artifacts in the daily clinical routine at any position within the scan field.
1	FAST_SCAN_A SSIST	<b>FAST Scan Assistant</b> FAST Scan Assistant: An intuitive user interface for solving conflicts by changing the scan time, resp. the pitch and/or the maximum tube current manually.
1	ADAPT_DOSE _SHIELD	<b>Adaptive Dose Shield</b> Adaptive Dose Shield for spiral acquisition to eliminate pre- and post-spiral over-radiation.

**PRELIMINARY PROPOSAL**

Qty	Part No.	Item Description
1	CARE_DOSE4D	<p><b>CARE Dose4D</b></p> <p>CARE Dose4D delivers the highest possible image quality at the lowest possible dose for patients - maximum detail, minimum dose. Adaptive dose modulation for up to 60% dose reduction</p>
1	CT_LUNGIMA GINGAS64	<p><b>Lung Imaging</b></p> <p>For well over a decade, CT has been recognized and used as the standard of care for lung nodule detection and sizing. This is due to CT's spatial resolution, geometric accuracy, and ability to create various reconstructions and 3D views. The high contrast environment in the chest between the lungs and the nodules makes for a relatively easy detection task for clinicians using CT images. Recent advances in CT technology have allowed these scans to be effectively performed at lower doses, higher resolutions, and faster scan times.</p> <p>The SOMATOM Definition AS64 CT is indicated for use in low dose lung cancer screening for high risk populations*. The AS64 is delivered with two specific scan protocols to provide low dose lung cancer screening exams at approximately 1.5 mGy CTDI for a standard size adult. These default protocols utilize Siemens proprietary dose reducing features such as CARE Dose4D(tm), automatic exposure control technology that modulates and adapts dose for every patient, for high image quality at low dose.</p> <p>*As defined by professional medical societies.</p>
1	ACCESS_PROTECT	<p><b>Access Protection</b></p> <p>Scan Protocols are password protected allowing only authorized staff members to access and permanently change protocols</p>
1	NEMA_XR-29	<p><b>NEMA_XR-29 Standard</b></p> <p>This system is in compliance with NEMA XR-29 Standard Attributes on CT Equipment Related to Dose Optimization and Management, also known as Smart Dose.</p>
1	CT_UPS_DEF_AS	<p><b>Standard UPS for Definition AS</b></p> <p>The standard partial system uninterruptible power system (UPS) is built directly into the power distribution cabinet (PDC) and supports the critical circuits for table and gantry electronics, console computer, image reconstruction system, and the internal Ethernet switch (to ensure connectivity). This enables safe removal of patient if outage occurs during scanning.</p> <p>The UPS allows for a safe shutdown of the CT scanner in the event of power interruption. The UPS provides 5-7 minutes of power, during which the user is prompted and guided through the process to perform a safe shutdown of the system. This safe shutdown ensures that no data is lost.</p>
1	CT_PM	<p><b>CT Project Management</b></p> <p>A Siemens Project Manager (PM) will be the single point of contact for the implementation of your Siemens equipment. The assigned PM will work with the customer's facilities management, architect or building contractor to assist you in ensuring that your site is ready for installation. Your PM will provide initial and final drawings and will coordinate the scheduling of the equipment, installation, and rigging, as well as the initiation of on-site clinical education.</p>
1	CT_BUDG_AD DL_RIG CT_STD_RIG_I NST	<p><b>Budgetary Add'l/Out of Scope Rigging @ \$5,000</b></p> <p><b>CT Standard Rigging and Installation</b></p> <p>This quotation includes standard rigging and installation of your CT new system.</p> <p>Standard rigging into a room with reasonable access, as determined by Siemens Project Management, during standard working hours (Mon. - Fri./ 8 a.m. to 5 p.m.)</p> <p>It remains the responsibility of the Customer to prepare the room in accordance with the SIEMENS planning documents.</p> <p>Any special rigging requirements (Crane, stairs, etc.) and/or special site requirements (e.g. removal of existing systems, etc.) is an incremental cost and the responsibility of the Customer.</p> <p>All other "out of scope" charges (not covered by the standard rigging and installation) will be identified during the site assessment and remain the responsibility of the Customer.</p>

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40 Liberty Boulevard, Malvern, PA 19355  
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SIEMENS REPRESENTATIVE  
Mathew Hayes - (336) 263-4273

**PRELIMINARY PROPOSAL**

Qty	Part No.	Item Description
1	CT_INITIAL_32	<b>Initial onsite training 32 hrs</b> Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
1	CT_FOLLOWUP_32	<b>Follow-up training 32 hrs</b> Up to (32) hours of follow-up on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
1	CT_ADD_24	<b>Additional onsite training 24 hours</b> Up to (24) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist if applicable. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
1	SY_PR_TEAMPLAY	<b>teampay Welcome &amp; Registration Package</b> teampay is a cloud-based network that brings together your imaging modality users, the systems' dose and utilization data, and the users' expertise to help you improve the delivery of care to your patients. Basic features are provided free of charge. Premium features (benchmarking, non-Siemens devices) are provided on a trial basis for three months at no charge, and may be used thereafter on a subscription fee basis. To register: <a href="http://teampay.siemens.com/#/institutionRegistration/1">http://teampay.siemens.com/#/institutionRegistration/1</a>
1	4SPAS014	<b>Low Contrast CT Phantom &amp; Holder</b>
1	PSPD250480Y	<b>Surge Protective Device (SPD)</b>
1	3K	
1	CTSP4002	<b>CT Slicker</b> Thermoseal seams and flaps deflect fluids, reducing contaminant penetration into the cushion and table. Contaminants are retained on the tabletop or shunted to the floor. Cleanup is faster, more thorough, and contaminant build-up is reduced. Built using heavy, clear, micro matte vinyl, and top grade hook and loop fastening strips (Velcro) to better fit the specified table. Custom vinyl resists tears and minimizes radiologic interference. Latex free. Set includes CT Skirts.  Includes warranty from RADSCAN Medical.
1	BSCT322	<b>Stellant D Dual Ceiling w/Certegra WS</b> Stellant D Dual Ceiling mounted with Certegra Workstation NO Informatics. Short ceiling post - 580 mm.  Other ceiling post lengths are available (different part numbers): 850 mm and 1000 mm.  Includes Stellant D, Dual Head, ceiling mounted injector; Certegra workstation; installation and warranty through Medrad.

**System Total: \$554,191**



February 6, 2018


Dear Customer:


Thank you for your recent purchase of medical imaging equipment from Siemens.

Depending on the unit, Siemens will do one of the following options with the trade-in unit:

1. If the unit is manufactured by Siemens and is in demand from the Siemens Resale Group, the unit will be internally sold to this separate organization within Siemens. Once sold, the unit will be shipped to the Siemens Resale Group Factory to be refurbished. Once refurbished, the unit will be resold to another end user that may or may not be in North Carolina. In this circumstance, the new end user is responsible to ensure that any applicable Certificate of Need (CON) Requirement is met.
2. If the unit is not manufactured by Siemens and in demand, Siemens most likely will sell the unit to a broker. The broker may or may not refurbish the unit prior to resale which may or may not be in North Carolina. Although the new end user is responsible to ensure any applicable CON requirement is met, Siemens is not involved in this transaction.
3. If the unit is end of life or otherwise not in demand, Siemens will remove the equipment for scrap and as such it will not be installed in North Carolina.

Sincerely:

  
\_\_\_\_\_  
Bob Ferrero  
Zone Finance VP

  
\_\_\_\_\_  
Manny Niebla  
Zone General Manager



# CT Scan Replacement & Renovation

## Preliminary Proposed Floor Plan

02.01.18

1801

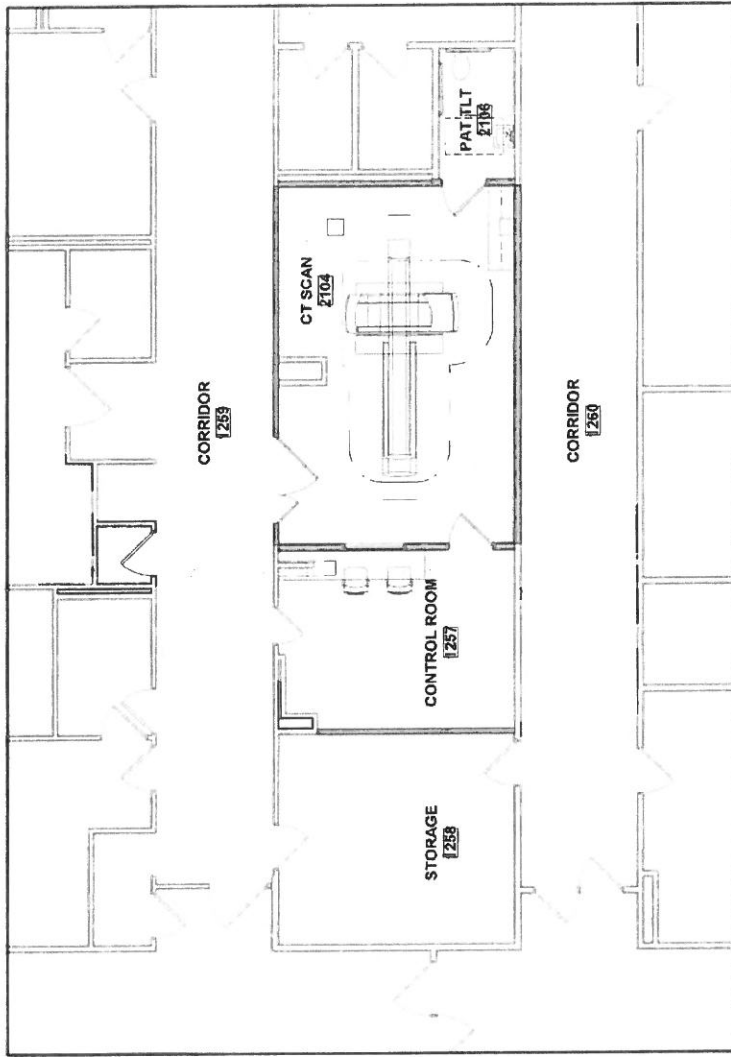
**GENERAL NOTES**

- 1. PROVIDE 2X FIRE-TREATED WOOD BLOCKING IN WALLS FOR THE FOLLOWING ITEMS:

- WALL MOUNTED DOOR STOPS
- GRAB BARS
- WALL HUNG EQUIPMENT
- WALL HUNG CASEWORK

**NEW FLOOR PLAN LEGEND**

- EXISTING TO REMAIN
- NEW CONSTRUCTION
- DOOR NUMBER DESIGNATION, SEE DOOR SCHEDULE
- ROOM NAME AND NUMBER DESIGNATION
- NEW DOOR
- EXISTING DOOR
- WALL TAG
- KEY CONSTRUCTION NOTE



- 1 FLR - LEVEL 01 - NEW
- 1/8" = 1'-0"

NOTE: LAYOUT WILL NOT MEET MINIMUM SERVICE TIME AND POTENTIAL

