



DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF HEALTH SERVICE REGULATION

ROY COOPER
GOVERNOR

MANDY COHEN, MD, MPH
SECRETARY

MARK PAYNE
DIRECTOR

September 27, 2017

Lisa Griffin
2085 Frontis Plaza Boulevard
Winston-Salem, NC 27103

Exempt from Review – Replacement Equipment

Record #: 2404
Facility Name: Novant Health Rowan Medical Center
FID #: 933436
Business Name: Novant Health, Inc.
Business #: 1341
Project Description: Replace CT Scanner
County: Rowan

Dear Ms. Griffin:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that based on your letter of September 25, 2017, 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 CT Scanner to replace the Siemens Sensation CT Scanner model #0432232. 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.

HEALTHCARE PLANNING AND CERTIFICATE OF NEED SECTION

WWW.NCDHHS.GOV

TELEPHONE 919-855-3873

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

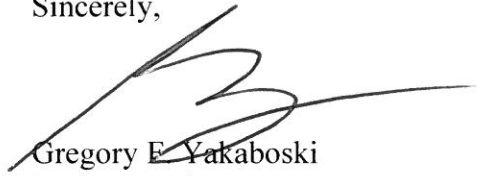
MAILING ADDRESS: 2704 MAIL SERVICE CENTER • RALEIGH, NC 27699-2704

AN EQUAL OPPORTUNITY/ AFFIRMATIVE ACTION EMPLOYER

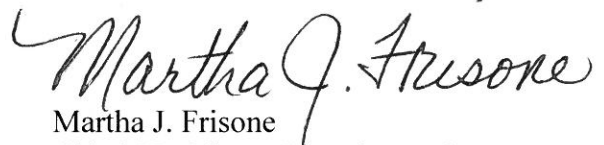


Lisa Griffin
September 27, 2017
Page 2

Sincerely,



Gregory E. Yakaboski
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

September 25, 2017

Via Email

Greg Yakaboski, Project Analyst, Certificate of Need
N.C. Department of Health Service Regulation
809 Ruggles Drive
Raleigh, North Carolina 27603

**NOVANT
HEALTH**



Re: Novant Health, Inc. – Novant Health Rowan
Medical Center
Replacement of Imaging Equipment
Salisbury, NC (Rowan County)

Dear Mr. Yakaboski:

Novant Health, Inc. and Novant Health Rowan Medical Center (“NHRMC”) intend to replace an existing CT scanner currently located at the main campus of NHRMC in Salisbury, North Carolina. NHRMC will acquire a new Siemens Somatom CT scanner. See **Attachment A** for the Equipment Quote. As part of the equipment cost, the vendor will provide onsite clinical training for the equipment. The total capital cost for the proposed replacement equipment project is estimated to be \$1,012,436¹. See **Attachment B** – Project Capital Cost. Once the existing CT scanner has been replaced, it will be removed from service in North Carolina.

The proposed project meets the definition of “replacement equipment” found in G.S. 131E-176(22a) and 10A N.C.A.C 14C.0303 for the following reasons:

- (1) NHRMC will replace the existing CT scanner with the proposed CT scanner that is functionally similar and will be used for the same diagnostic purposes, although it possesses expanded capabilities due to technological improvements.
- (2) The proposed CT scanner will not be used to provide a new health service.
- (3) The acquisition of the proposed CT scanner will not result in more than a 10% increase in patient charges or per procedure operating expenses within the first twelve months after the replacement equipment is acquired.
- (4) NHRMC seeks to replace comparable medical equipment currently in use at project cost less than \$2 million.
- (5) The existing equipment was not purchased second-hand nor was the existing equipment leased.

In support of our request, please find attached:

Attachment A – Vendor Equipment Quote
Attachment B – Project Capital Cost
Attachment C – NC CON Equipment Comparison chart

¹ The project cost does not include sales, property or excise taxes as NHRMC is not subject to these taxes as a non-profit, tax-exempt organization.

NHRMC's acquisition of the replacement CT scanner does not require a certificate of need because none of the definitions of "new institutional health services" set forth in N.C.G.S. Section 131E-176(16) apply to the proposed project. As outlined above, the total cost for the project is \$1,012,436. The proposed capital cost includes equipment, as well as studies, surveys, designs, plans, working drawings, specifications, construction installation and other activities essential to making the equipment operational.

Based on the information provided, please confirm that NHRMC's replacement equipment request does not constitute a new institutional health service and is exempt from certificate of need review.

If you need additional information, please do not hesitate to contact me.

Sincerely,



Lisa Griffin
Manager, Certificate of Need
Novant Health, Inc.

Enclosures

Cc: Barbara Freedy, Director, CON, Novant Health

**ATTACHMENT A –
Equipment Quote**



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

SIEMENS REPRESENTATIVE
Stuart Waddey - (919) 605-9227

Customer Number: 0000009562

Date: 8/7/2017

ROWAN REGIONAL MEDICAL CENTER
612 MOCKSVILLE AVENUE
SALISBURY, NC 28144

Siemens Medical Solutions USA, Inc. is pleased to submit the following quotation for the products and services described herein at the stated prices and terms, subject to your acceptance of the terms and conditions on the face and back hereof, and on any attachment hereto.

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Contract Total: \$790,000

Proposal valid until 12/31/2017

Estimated Delivery Date: 1/2018

Estimated delivery date is subject to change based upon factory lead times, acceptance date of this quote, customer site readiness, and other factors. A Siemens representative will contact you regarding the final delivery date.

This proposal includes the trade-in of equipment referenced in Trade Sheet Project # 2017-1723 .
Trade-in of existing Sensation 16 required.

This offer is only valid if firm, non-contingent orders for the following quotes are simultaneously placed with Siemens:
1-HQ0V6R
1-J9POSX

Accepted and Agreed to by:

Siemens Medical Solutions USA, Inc.

ROWAN REGIONAL MEDICAL CENTER

By (sign): _____
Name: Stuart Waddey
Title: Account Executive
Date: _____

By (sign): _____
Name: _____
Title: _____
Date: _____

By signing below, signor certifies that no modifications or additions have been made to the Quotation. Any such modifications or additions will be void.

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

SIEMENS REPRESENTATIVE
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Qty	Part No.	Item Description
1	ACCESS_PROTECT	Access Protection Scan Protocols are password protected allowing only authorized staff members to access and permanently change protocols
1	ADAPT_DOSE_SHIELD	Adaptive Dose Shield Adaptive Dose Shield for spiral acquisition to eliminate pre- and post-spiral over-radiation.
1	CARE_DASHBOARD	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	CARE_DOSE4D	CARE Dose4D 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
1	CARE_KV	CARE kV CARE kV: First automated, organ-sensitive voltage setting to improve image quality and contrast-to-noise-ratio while optimizing dose and potentially reducing it by up to 60%.
1	CARE_PROFILE	CARE Profile CARE Profile: Visualization of the dose distribution along the topogram prior to the scan
1	FAST_ADJUST	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	FAST_SCAN_ASSIST	FAST Scan Assistant 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	NEMA_XR-29	NEMA_XR-29 Standard 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.
1	SURE_VIEW	SureView 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_DETECTOR	UFC Detector 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	PSPD250480Y3K	Surge Protective Device (SPD)
1	CT_TRADE_IN_ALLOW	Trade-in of existing Sensation 16 Project# 2017-1723 deinstall date 11/2017 -\$4,650
1	CT_ADDL_RIGGING	Additional Rigging CT \$5,110

System Total: \$790,000

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Qty	Part No.	Item Description
		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_INITIAL_32	Initial onsite training 32 hrs 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_RECON_384	AS+ configuration z-Sharp Technology 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 128-slice detector electronics enable a virtually simultaneous readout of two projections for each detector element - resulting in a full 128-slice acquisition. This sampling scheme is identical to that of a 128 x 0.3 mm allowing for reconstruction of 384 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	CTSP4002	CT Slicker 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	CT_INST_RIED EL_01	Riedel Chiller Start-up by SBT
1	4SPAS014	Low Contrast CT Phantom & Holder
1	TILTED_SPIRAL	Gantry tilt incl. tilted spiral Allows for sequential scanning with a tilted gantry between +/- 30°, depending on the vertical position of the table. Using the gantry tilt sensitive organs (like eye lenses) can be moved out of the scan range or it eases access during interventional procedures. The tilted spiral allows to utilize the gantry tilt for spiral scan modes.
1	CT_UPS_DEF_	Standard UPS for Definition AS 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. 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.
1	CT_LUNGIMA GASPL	Lung Imaging 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. The SOMATOM Definition AS+ CT is indicated for use in low dose lung cancer screening for high risk populations*. The AS+ is delivered with two specific scan protocols to provide low dose lung cancer screening exams at approximately 1.3 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. *As defined by professional medical societies.

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Qty	Part No.	Item Description
		The use of the software of this option is restricted to a single system unit.
1	14408038	Cardio BestPhase Plus #AWP 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	14408147	Adaptive 4D Spiral With the unique Adaptive 4D Spiral, dynamic CT imaging moves beyond fixed detector limitations to provide larger coverage than the actual detector size.
1	14408302	Adapt. 3D Intervent. Suite Wireless The complete solution for 2D and 3D non fluoroscopic and 2D fluoroscopic minimal invasive volume interventions. The Adaptive 3D Intervention Suite contains Adaptive 3D Intervention for 3D volume intervention. Intervention Pro for spiral and sequential non- fluoroscopic interventional procedures and complete organ coverage with maximal flexibility and with minimal single click effort i-Fluoro CT for CT allows for 2 dimensional interventional fluoroscopic procedures i-Control CT supports interventional procedures as independent remote unit Foot switch for radiation release (x-ray).
1	14408105	Dual 19" Monitor #AWP Second 19-inch monitor for the Acquisition workplace (AWP)
1	14447352	Dual Monitor Cart 19" flat screen monitor (2x) The 19" monitor option supports CT interventions and CT fluoroscopy with a display in the examination room. Dual Monitor Cart Mobile equipment cart for the accommodation and safe installation of one or two monitors in the examination room.
1	CT_PM	CT Project Management A Siemens Project Manager (PM) will be the single point of contact for the implementation of your Siemen's 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.
1	CT_STD_RIG_I NST	CT Standard Rigging and Installation This quotation includes standard rigging and installation of your CT new system. 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.) It remains the responsibility of the Customer to prepare the room in accordance with the SIEMENS planning documents. 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. 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.
1	CT_PR_ELV_A S128	CT AS128 Elevate Bonus
1	SY_PR_TEAM PLAY	teamply Welcome & Registration Package teamply 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: http://teamply.siemens.com/#!/institutionRegistration/1
1	CT_FOLLOWU P_32	Follow-up training 32 hrs 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

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Qty	Part No.	Item Description
1	14410248	Service Switch Service switch to shut off the outdoor cooling unit for maintenance or in case of emergency
1	14420778	Multi Purpose Table 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	14408219	Physiological Monitoring Module The Physiological Measurement Module allows to connect a 3 Channel ECG cable for ECG controlled cardiac acquisition.
1	14408040	ECG cable IEC2 #D ECG cable, IEC2 (AHA/US color coding).
1	14410232	Mat for MPT Standard Table Top Replacement for the positioning mattress for Standard Multi-purpose tabletop.
1	14408217	High Cap. Patient & Trauma Tab.Top 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	14408218	High Cap. Patient & Trauma Acc Kit 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	14414734	Mattress for Bariatric Table Top 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	14420921	Table Side Rails Side rails enable the quick and easy attachment of additional accessories such as an infusion bottle holder and i-control intervention module to the standard patient table.
1	14408101	Computer Desk #AWP New CT desk to accommodate the control components and color monitor. Width: 1200 mm, Depth: 800 mm, Height: 720 mm.
1	14408102	Computer Cabinet #AWP 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	14408037	HeartView CT 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.

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Qty	Part No.	Item Description
1	14420962	<p>High Speed 0.30 s Rotation</p> <p>Fast rotation time of 300 milliseconds for unprecedented image quality and highest scan speed. Fast gantry rotation times are the prerequisite for highest temporal resolution and are therefore essential for brilliant, motion free cardiovascular imaging.</p>
1	14420996	<p>100 kW Power</p> <p>The 100 kW power allows the X-ray generator the use of maximum power of 100kW in fine adjustable steps.</p>
1	14420855	<p>Standard IRS</p> <p>Reconstruction computer for the preprocessing and reconstruction of the CT raw data. The reconstruction computer contains of a cluster of 3 high-performance GPU boards performing the preprocessing and reconstruction of the CT data. The raw data memory is 1.5 Tbyte. The peak reconstruction performance is up to 40 frames/sec.</p>
1	14420766	<p>SAFIRE #AWP</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 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.</p>
1	14444243	<p>iMAR #AWP</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 the newest dose reduction feature.</p> <p>Along with the new algorithm comes the simple user interface of iMAR enabling easy reconstruction of clinical images with reduced metal artifacts.</p>
1	14408111	<p>Extended Field of View #AWP</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>
1	14408149	<p>UHR</p> <p>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</p>
1	14408019	<p>ELEVATE O Definition AS+ Config.</p> <p>The SOMATOM Definition AS is a scalable 20 to 128 slice platform. The new Definition AS configuration can be field upgraded to the next generation of integrated detector technology with the Stellar detector.</p>
1	14408032	<p>Rear cover incl. gantry panels</p> <p>Rear Cover including gantry control panels with control functionality from the backside.</p>
1	14408023	<p>Cooling System Water</p> <p>Water heat exchanger for the dissipation of heat loss generated in the gantry to an environmentally friendly cooling water circulation system.</p> <p>This optimizes system availability independently of the cooling water flow rate and temperature.</p> <p>System operation temperature 4 - 16 degrees C and 500 - 2500 l/h flow rate.</p>
1	14408027	<p>Cooling System Water/Air #split</p> <p>Water-to-air heat exchanger for the dissipation (to the air outside) of heat, generated in the gantry.</p>
1	14410140	<p>Trafo for Cooling system Water/Air</p> <p>The transformer powers the Cooling System Water/Air.</p>

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Stuart Waddey - (919) 605-9227

Quote Nr: 1-HQ0V6R Rev. 1

Terms of Payment: 00% Down, 80% Delivery, 20% Installation
Free On Board: Destination

Purchasing Agreement: VIZIENT SUPPLY LLC

VIZIENT SUPPLY LLC terms and conditions apply to Quote Nr 1-HQ0V6R

SOMATOM Definition AS - New Scalable Configuration

All items listed below are included for this system:

Qty	Part No.	Item Description
1	14444241	<p>SOMATOM Definition AS (AS+)</p> <p>The SOMATOM Definition AS (AS+, 128-slice configuration) is Siemens' state-of-the-art single source CT that provides the possibility to maximize clinical outcome and to minimize radiation dose. 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 128-slice detector electronics enable a virtually simultaneous readout of two projections for each detector element - resulting in a full 128-slice acquisition. This sampling scheme is identical to that of a 128 x 0.3 mm allowing for reconstruction of 384 slices using 0.1 mm reconstruction interval increment. The fast rotation time of 0.33 seconds (0.30 s optional) delivers excellent temporal resolution. The SOMATOM Definition AS is set to raise the standard of patient-centric productivity with FAST CARE Technology. 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. 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. Additionally, its large bore of 78 cm and a table load capacity of up to 307 kg (optional) opens CT to virtually all patients, meaning that virtually no patient is excluded.</p>
1	14420773	<p>FAST CARE Platform</p> <p>Siemens' unique FAST CARE platform is set to raise the standard of patient-centric productivity. Utilizing FAST - Fully Assisting Scanner Technologies -, typically time-consuming and complex procedures during the scan process are extremely simplified and automated, not only improving workflow efficiency, but optimizing the overall clinical outcome by creating reproducible results, making diagnosis more reliable and reducing patient burden through streamlined examinations. Siemens' desire for as little radiation exposure as possible lies at the heart of the CARE - Combined Applications to Reduce Exposure - research and development philosophy offering a unique portfolio of dose saving features, many of them being introduced as industry's first.</p>
1	14420771	<p>CARE Child</p> <p>Dedicated pediatric CT imaging, including 70 kV scan modes and specific CARE Dose4D curves and protocols.</p>
1	14433993	<p>FAST Planning #AWP</p> <p>Direct, organ-based setting of scan and recon ranges for a faster and more standardized workflow</p>
1	14419142	<p>Workstream 4D #AWP</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 the CT protocol.</p>

**ATTACHMENT B –
Project Capital Cost Form**

PROPOSED CAPITAL COSTS

Project Name: Replace CT Scanner in Radiology Department

September 25, 2017

Proponent: Novant Health Rowan Medical Center

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 (Specify)			
	Soil Borings	\$	-	
	Clearing Earthwork	\$	-	
	Fine Grade For Slab	\$	-	
	Roads Paving	\$	-	
	Concrete Sidewalks	\$	-	
	Water and Sewer	\$	-	
	Footing Excavation	\$	-	
	Footing Backfill	\$	-	
	Termite Treatment	\$	-	
	Sub-Total Site Preparation Costs		\$	-
(6)	Other (specify)		\$	-
	Sub-Total Other		\$	-
(7)	Sub-Total Site Costs		\$	-

B. Construction Contract

(8)	Cost of Materials (Specify)			
	General Requirements	\$	25,661.90	
	Concrete/Masonry	\$	-	
	Woods/Doors & Windows/Finishes	\$	11,339.37	
	Thermal & Moisture Protection	\$	-	
	Equipment/Specialty Items	\$	9,780	
	Mechanical/Electrical/Plumbing	\$	44,629	
	Sub-Total Cost of Materials			\$ 91,410
(9)	Cost of Labor GC Labor			\$ 35,403
(10)	Other (Specify)			
	Other Construction Contingency (GC)	\$	7,357	
	Other Demo & Final Clean	\$	2,404.78	
	Other General Liability	\$	1,311	
	Other Builders Risk	\$	328	
	Other Misc. Applied Costs (IT, Office, etc.)	\$	486	
	Other Allowance Permit	\$	919	
	Other Fee	\$	5,659	
	Sub-Total Other			\$ 18,464
(11)	Sub-Total Construction Contract			\$ 145,277

C. Miscellaneous Project Costs

(12)	Building Purchase		\$	-
(13)	Fixed Equipment Purchase/Lease		\$	790,000
(14)	Movable Equipment Purchase/Lease		\$	-
(15)	Furniture		\$	-
(16)	Landscaping		\$	-
(17)	Consulting Fees			
	Architect and Engineering Fees	\$	18,000	
	Market Analysis	\$	-	
	Sub-Total Consulting Fees			\$ 18,000
(18)	Financing Costs (e.g. Bond Loan, etc)		\$	-
(19)	Interest During Construction		\$	-
(20)	Other (Specify)			
	Other Nurse Call	\$	5,000	
	Other A&E Reimbursable expenses	\$	2,500	
	Other DHSR review fee	\$	1,750	
	Other Pre & Post TAB	\$	1,500	
	Other Permitting Special Inspections	\$	2,500	
	Other Construction Contingency	\$	17,653	
	Other FF&E Contingency	\$	7,905	
	Other Signage	\$	500	
	Other Telecom	\$	-	
	Other Voice / Data / CATV Cabling	\$	-	
	Other IT Contingency	\$	-	
	Other Capitalized Labor	\$	19,852	
	Sub-Total Other			\$ 59,159
(21)	Sub-Total Miscellaneous			\$ 867,159
(22)	Total Capital Cost of Project (Sum A-C above)			\$ 1,012,436

**ATTACHMENT C –
NC Equipment Comparison Form**

Equipment Comparison Form
Novant Health Rowan Medical Center – CT Scanner Replacement

	Existing Equipment	Replacement Equipment
Type of Equipment (List Each Component)	CT Scanner	CT Scanner
Manufacturer of Equipment	Siemens	Siemens
Tesla Rating for MRIs	N/A	N/A
Model Number	Sensation	Somatom
Serial Number	0432232	TBD
Provider's Method of Identifying Equipment	R07168	Internal Asset Numbering System
Specify if Mobile or Fixed	Fixed	Fixed
Mobile Trailer Serial Number /VIN#	N/a	N/A
Mobile Tractor Serial Number /VIN#	N/A	N/A
Date of Acquisition of Each Component	2006	2017
Does Provider Hold Title to Equipment or Have a Capital Lease?	Own	Own
Specify if Equipment Was/Is New or Used When Acquired	New	New
Total Capital Cost of Project	\$950,000 *	\$1,012,436
Total Cost of Equipment	\$600,000 *	\$790,000
Fair Market Value of Equipment	0	\$790,000
Net Purchase Price of Equipment	\$600,000	\$790,000
Locations Where Operated	NHRMC	NHRMC
Number of Days in Use/To be Used in NC per Year	365	365
Percent of Change in Patient Charges by Procedure	N/A	No increase
Percent of Change in Per Procedure Operating Expenses by Procedure	N/A	No increase
Type of Procedures Currently Performed on Existing Equipment	CT Scans	N/A
Type of Procedures New Equipment is Capable of Performing	N/A	CT Scans

* RMC was not affiliated with Novant Health until 2008, so detailed asset records are not available. This is an estimate.