

# 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

March 23, 2016

Elizabeth V. Kirkman Assistant Vice President CHS Management Company 2709 Water Ridge Parkway, Suite 200 Charlotte, North Carolina 28217

# Exempt from Review - Replacement Equipment

Record #:

1902

Facility Name:

Carolinas HealthCare System (CHS) University

FID #:

923516

Business Name:

The Charlotte-Mecklenburg Hospital Authority

Business #:

1772

Project Description:

Replace CT scanner located on the 1st floor in Room #01T114

County:

Mecklenburg

## Dear Ms. Kirkman:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that based on your letter of March 11, 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 replace the existing General Electric Lightspeed 16 CT scanner, located on the 1<sup>st</sup> floor in room #01T114 of CHS University's main campus in Charlotte, with a comparable CT scanner. This determination is based on your representation 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, Acute and Home Care Licensure and Certification, and Radiation Protection 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



Healthcare Planning and Certificate of Need Section

Ms. Elizabeth Kirkman March 23, 2016 Page 2

separate determination. If you have any questions concerning this matter, please feel free to contact this office.

Sincerely,

Gloria C. Hale Project Analyst Martha J. Frisone.

Assistant Chief, Certificate of Need

cc:

Construction Section, DHSR

Acute and Home Care Licensure and Certification Section, DHSR

Radiation Protection Section, DHSR

Kelli Fisk, Program Assistant, Healthcare Planning, DHSR

# Hale, Gloria

From:

Kirkman, Elizabeth < Elizabeth. Kirkman@carolinashealthcare.org >

Sent:

Tuesday, March 22, 2016 9:53 AM

To:

Hale, Gloria

Cc: Subject: Kinrade, Hannah RE: Re. CHS University exemption request

Gloria,

The CT is located on the first floor at CHS University in room number 01T114.

Please let me know if you need anything else.

Thanks,

EΚ

From: Hale, Gloria [mailto:gloria.hale@dhhs.nc.gov]

Sent: Monday, March 21, 2016 4:02 PM

To: Kirkman, Elizabeth < Elizabeth.Kirkman@carolinashealthcare.org>

Subject: Re. CHS University exemption request

## \*CAUTION: External Email\*

Hi Elizabeth. I am reviewing your request for an exemption to replace a CT scanner at CHS University. Could you please let me know the floor and room number where the CT unit is located in the hospital? Thank you.

# Gloria C. Hale, MPH

Project Analyst Certificate of Need Division of Health Service Regulation, Healthcare Planning and Certificate of Need Section North Carolina Department of Health and Human Services

919-855-3873 office Gloria.Hale@dhhs.nc.gov

809 Ruggles Drive 2704 Mail Service Center Raleigh, NC 27699-2704



→ Nothing Compares → ...

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# Carolinas HealthCare System



March 11, 2016

Ms. Martha Frisone, Assistant Section Chief Healthcare Planning and Certificate of Need Section Division of Health Service Regulation N.C. Department of Health & Human Services 809 Ruggles Drive Raleigh, NC 27603

RE: Replacement of CT Scanner licensed under The Charlotte-Mecklenburg Hospital Authority d/b/a Carolinas HealthCare System University.

## Dear Ms. Frisone:

Carolinas HealthCare System University (CHS University) is planning to replace one of its existing CT scanners with new, technologically comparable equipment. CHS University intends to purchase a Siemens SOMATOM Definition AS CT scanner to replace a used General Electric Lightspeed 16 CT scanner that was installed in December 2012 that is currently located at CHS University. The existing equipment is near the end of its useful life and is at risk for service interruptions due to downtime.

The Siemens SOMATOM Definition AS unit will be used for the same types of procedures as the existing equipment and it will not be used to provide a new health service. A chart comparing the existing equipment and the replacement equipment is included in Attachment A along with supporting documentation. The equipment is currently in use and documentation provided in Attachment B indicates 17,370 procedures were performed from February 2015 through January 2016.

The total cost to acquire, install and make operational the replacement equipment is \$1,020,201 which includes construction costs of \$182,450, consultant fees of \$47,000, other fees of \$28,500, the Replacement Equipment of \$708,500 (\$648,980 for the CT scanner, \$16,020 for freight, and \$43,500 for sales tax) and the Injector \$53,751 (\$52,150 for the Injector, \$133 for freight, and \$1,468 for sales tax). Attachment C provides the quote for the CT scanner from Siemens and the Injector from Bayer HealthCare with equipment costs. Please see Attachment D (and the Trade-In Addendum to the Quote in Attachment C) for a letter documenting the equipment will be taken out of service and removed from North Carolina. The total capital cost schedule and certified cost estimate of the renovation required to install the new equipment are provided in Attachment E.

The North Carolina Certificate of Need statutes provide a definition of replacement equipment in N.C.G.S. 131E-176(22a). The definition requires the replacement equipment be comparable to the existing medical equipment and cost less than \$2.0 million when installed. The statutes further provide in 131E-184(a)(7) an exemption from certificate of need review for replacement equipment projects if prior notice is provided to the CON Section.

This letter serves as prior notification of our intent to proceed with this project. We would appreciate your written concurrence that this project is exempt from CON review. If you have any questions or require further information regarding this project, please contact me at 704-446-8475.

Sincerely,

Elizabeth Kirkman, Assistant Vice-President

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**CHS Management Company** 

Attachments

# Attachment A

Comparison of Existing and Replacement Equipment

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	Existing Equipment	Keplacement Equipment
Type of Equipment (List each component)	GE Lightspeed 16	SOMATOM Definition AS
Manufacturer of Equipment	General Electric	Siemens
Tesla Rating for MRIs	N/A	N/A
Model Number	16 4.x	14444263
Serial Number	79197TY0	Not Available Until Installed
Provider's Method of Identifying Equipment	CHS Asset # / Serial #	CHS Asset # / Serial #
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	December 2012	Spring 2016
Does Provider Hold Title to Equipment or Have a Capital Lease?	Title	Title
Specify if Equipment Was/Is New or Used When Acquired	Osed	New
Total Capital Cost of Project (Including Construction, etc.) <use attached="" form=""></use>	\$149,834	\$1,020,201
Total Cost of Equipment	\$70,209	\$762,118
Fair Market Value of Equipment	\$65,000	N/A
Net Purchase Price of Equipment	\$70,209	\$762,118
Locations Where Operated	8800 N Tryon St	8800 N Tryon St
	Charlotte, NC 28262	Charlotte, NC 28262
Number Days in Use/To Be Used in N.C. per Year	365	365
Percent of Change in Patient Charges (by procedure)	None	None
Percent of Change in Per Procedure Operating Expenses (by procedure)	None	None
Type of Procedures Currently Performed on Existing Equipment	Abdomen/Pelvis	
	Chest	
	Neuro	N/A
	Biopsy	
Type of Procedures New Equipment is Capable of Performing		Abdomen/Pelvis, Vascular, Chest, Neuro, MSK
	N/A	Biopsy
		Low Dose Lung screening and overall radiation dose reduction
		in an exams permitted.

CIMC-UH Basic Function/Technology

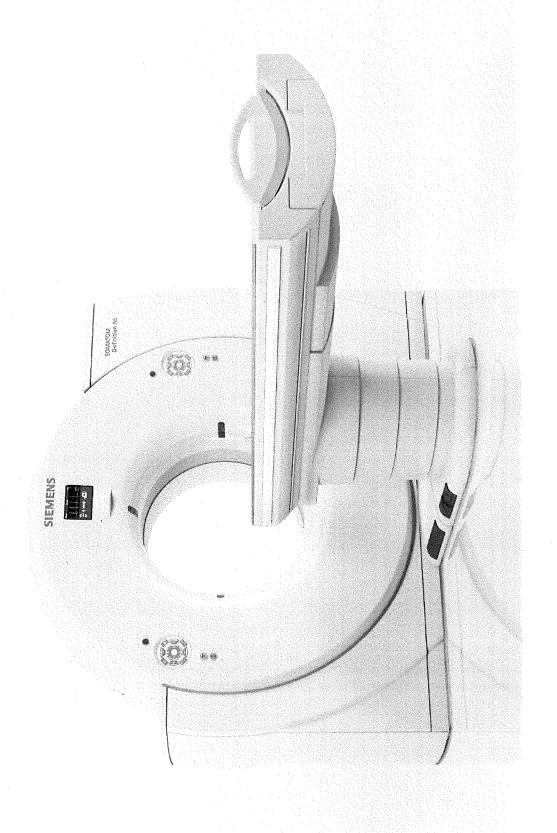
Siemens AS 64 (NEW)	GE Lightspeed (OLD)
One x-ray tube	One x-ray tube
fast aquisition time with Z-axis wobble (upgradable onsite)	· fast scan time with 1.375 pitch maximum
Table capacity (500lbs)	- Table capacity (500lbs)
· Robust iterative reconstruction algorithm (SAFIRE) for low dose scanning	<ul> <li>Does not contain iterative reconstruction for low dose scanning</li> </ul>
· Maximum mAs capacity >500	• mA capacity 440mA
· Better temporal resolution	· Subpar temporal resolution
· Radial multi-plannar software with 8 recon capability	· Not capable of direct multi-plannar (3 recon capability)



# Maximize Outcome. Minimize Dose.

**SOMATOM Definition AS** 

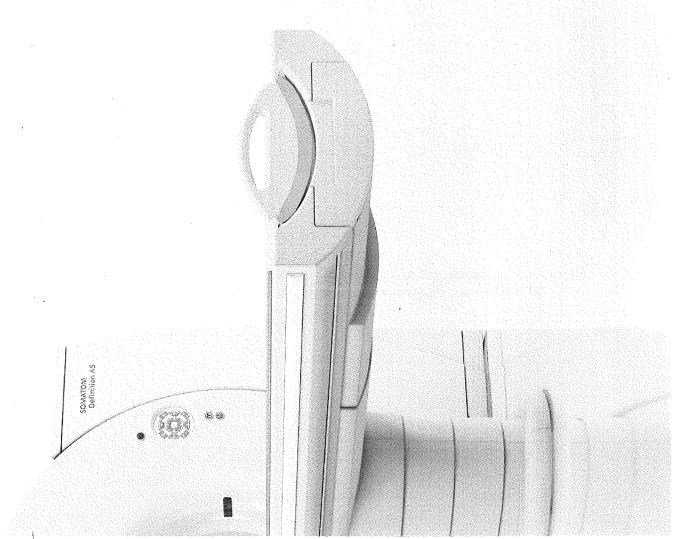
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# SOMATOM Definition AS

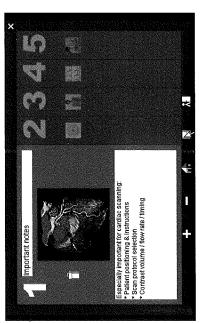
Maximize Outcome. Minimize Dose.

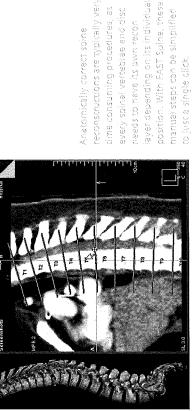
Product Benefits
Single-Click Readiness
Your Single-Source for Right Dose
Open for all Patients
Added Benefits of syngo.via
Clinical Images
Cone Technologies
Unique STRATON X-ray Tube
z-Sharp Technology
CARE KV
Technical Information
Customer Services
Specifications





Product Benefits





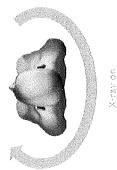
FAST Cardio Wizard guides the user insuitively through the preparation of cardiac exeminations with easy to follow stag-by-step explanations. Focus on the patient, not the system Unfortunately, complexity can become a source of inefficiency or, even worse, errors. Typical examples are spine exams. With conventional CT scanners, this means a lot of cumbersome, manual preparation steps, which make spine recon especially time-consuming. This is simplified to ideally just a single click with FAST Spine, saving not only valuable time, but making these tasks more reliable. At the end of the day, the SOMATOM Definition AS with FAST CARE technology helps to save highly valuable time, so that it can be spent on diagnosis and the interaction with patients.

Single Source Dual Energy as easy as a spiral scan

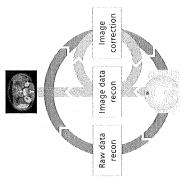
Dual energy makes it possible to add functional and material information to morphology. Now the combination of a routine-ready scan mode and enhanced low-kV image quality is available on every SOMATOM Definition AS. This offers new applications and opportunities to expand both the clinical and the research portfolio in everyday practice. And even better, the Dual Energy scan mode is as easy as a spiral scan.

Guided routine in cardiac CT
One of the most sophisticated examinations is cardiac CT. The SOMATOM Definition AS provides ideal specifications for cardiac CT with a rotation speed as low as 0.30 s and dedicated scan modes like Adaptive ECG Pulsing or the Adaptive Cardio Sequence. Additionally, FAST CARE technology offers a unique feature to support this particular workflow. The FAST Cardio Wizard uses a step-by-step approach showing how to achieve an optimal cardiac scan, either for training purposes or in a real-life situation, thus helping to set institutional standards and uniform quality.

# X-ray low



X-CARE reduces the tube current close to zero within a certain range of projections, minimizing direct exposure for highly dose sensitive body regions.



# SATIRE

- More powerful dose reduction tivan image-pasen inethods
- Superior image quality

Well-estabilished image

201

Rest reconstruction in inlage and raw-date space and improved workflow with variable settings

Organ-sensitive dose protection

Previous attempts at dose reduction were very successful but did not specifically take into consideration highly dose sensitive areas such as women's breasts or the heart. Here, the SOMATOM Definition AS can selectively reduce exposure in sensitive areas with X-CARE. Furthermore, the gantry till protects dose sensitive organs like the eyes or the thyroid gland by moving them out of the x-ray beam in sequential or spiral scans. And finally, the Adaptive Dose Shield protects patients from unnecessary spiral over-radiation, which is crucial, for example, in cardiac examinations.

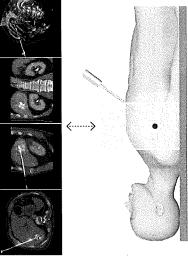
power available - up to now: with Sinogram Affirmed Iterative Reconstruction - SAFIRE\* possible by a new reconstruction algorithm, image quality or reduce dose. This is made data information is utilized to enhance the as well as an image reconstruction system, raw data beyond the initial reconstruction significantly increased image quality with approach to iterative reconstruction. Raw reduced dose. The further integration of - Siemens introduced a new and unique process, however, posed considerable terative reconstruction with SAFIRE delivering the required reconstruction restrains regarding the computational Iterative reconstruction can achieve power.

Dose-optimized Dual Energy scan In order to avoid doubling the dose, both scans of the Dual Energy scan are performed at approximately half the dose utilizing all dose reduction functionalities: e.g. CARE Dose4D, SAFIRE, and Adaptive Dose Shield. The result is a dose-optimized Dual Energy scan that helps to add functional and material information to morphology.

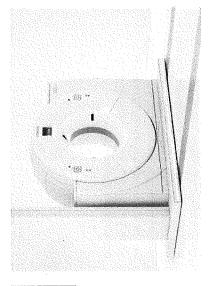
and clinical practice. A consultation SAFIRE may reduce CT patient dose quality compared to full dose data contrast resolution were assessed patient size, anatomical location, with a radiologist and a physicist reduction when using the SAFIRE in a Gammex 438 phantom. Low following test method was used CT numbers, homogeneity, low-SAFIRE showed the same image the appropriate dose to obtain reconstruction software: noise, pased on this test. Data on file. depending on the clinical task, the particular clinical task. The should be made to determine to determine a 4 to 60% dose contrast resolution, and high dose data reconstructed with 'In clinical practice, the use of diagnostic image quality for



Ine SOMA (OM Denninon As denver clinical excellence and opens CT for all petrents - regardless of the given conditions.



kaapilve 3G Imerventions offers eat fine 3D during intervention modedures.



The Stiding Gantry solution can serve two rooms with one CT

# Open for intervention

managing the entire procedure with just the procedures, the system makes interventions SOMATOM Definition AS customers use the during difficult procedures. All this can be puts users in full control in any plane with more accurate, thus safer and, in the end, touch of a button with i-Control. With 3D Siemens' unique intervention solution. It 3D-guided interventions. Additionally, it needle position and surrounding organs done without leaving the patient's side, guided guidance for minimally invasive ntervention in CT has established itself delivers a more accurate overview of in recent years. Over 30% of existing more efficient.

# Open for radiation therapy

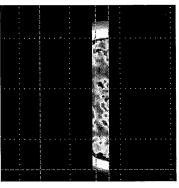
Over recent years, computed tomography has become the preferred choice for virtual simulation. Radiation therapy is evolving towards more precise and more powerful treatment delivery techniques. With the SOMATOM Definition AS, Siemens offers an outstanding versatile large bore that fulfills the needs both of radiation therapy and general diagnostics. With the RT Pro Edition, dedicated features have been developed for high-end radiation therapy planning. On the other hand, the system can serve as a perfect back-up system for radiology if needed.

Open for specialized clinical settings
Nevertheless, there are clinical settings
where a regular CT reaches barriers that
seem to be insuperable. Not the SOMATOM
Definition AS. The system can even be
mounted as a Sliding Gantry, offering
access to solutions such as two rooms being
served with one gantry. Dedicated highend surgery settings in combination with
surgery tables can be realized, opening
new paths into completely new directions.
It enables high-resolution CT imaging to be
utilized during surgical procedures without

the need to move the anaesthetized patient.







Conventional Perfusion



Adaptive 4D Spiral Perfusion

# Fast answers

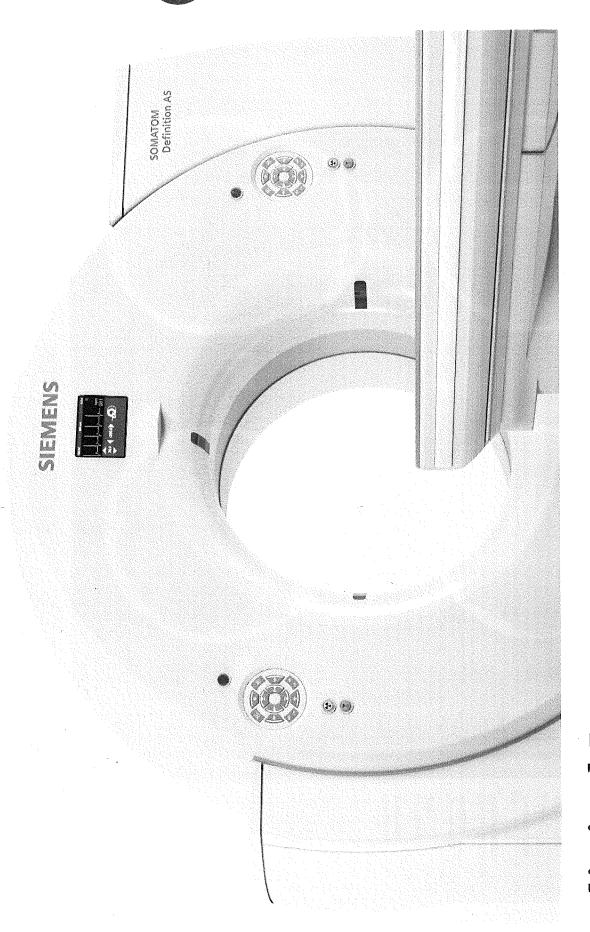
Using the SOMATOM Definition AS together with the CT Neuro Engine leads to unsurpassed workflow efficiency delivering fast answers to fundamental questions in stroke. These questions in stroke assessment vary: Is it caused by bleeding, what size and location has a possible clot, how big is the infarct and what does the blood flow look like in a dynamic way? The CT Neuro Engine offers a complete diagnostic stroke solution.

# High precision and speed

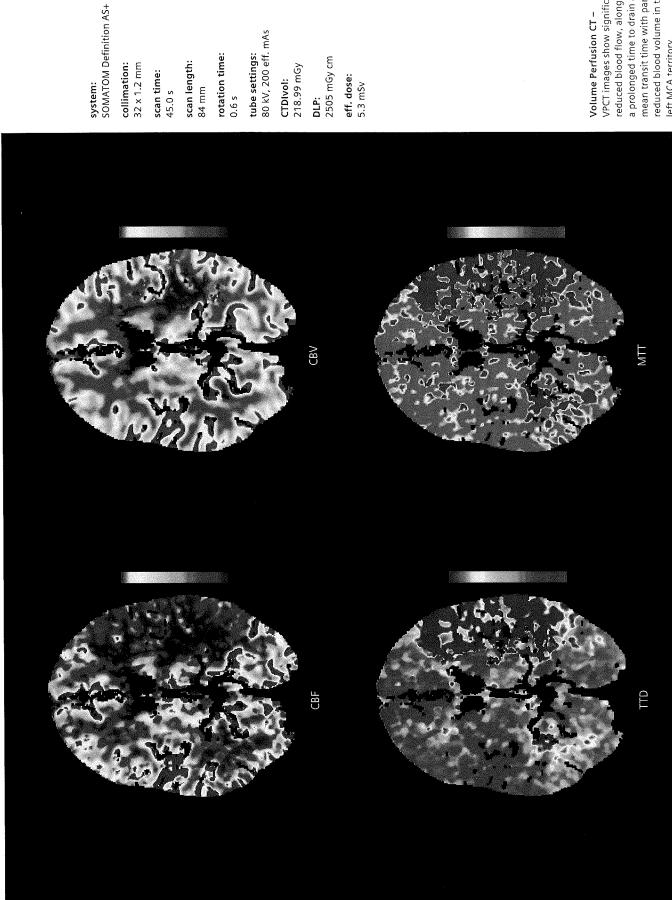
Innovations such as whole brain CT
Perfusion, Neuro BestContrast, or Dual
Energy applications have dramatically
changed the diagnostic approach for
reading physicians by enabling new
indications and improved times in the
examination of patients with acute
neurological diseases. In stroke evaluation,
"time is brain." The CT Neuro Engine
helps users answer the key questions so
they can decide on optimal treatment –
with high precision and speed.

\* syngo.via can be used as a standalone device or together with a
variety of syngo.via-based software
options, which are medical devices
on their own rights. These products
are pending regulatory clearance in
some countries and therefore not
yet commercially available in all
countries. Usage of syngo.via in an
operating room or for an emergency
case requires customers to provide
respective emergency measures in
case of non-availability of system or
network.

\*\* Prerequisites include: internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements, and adherence to local data security regulations.



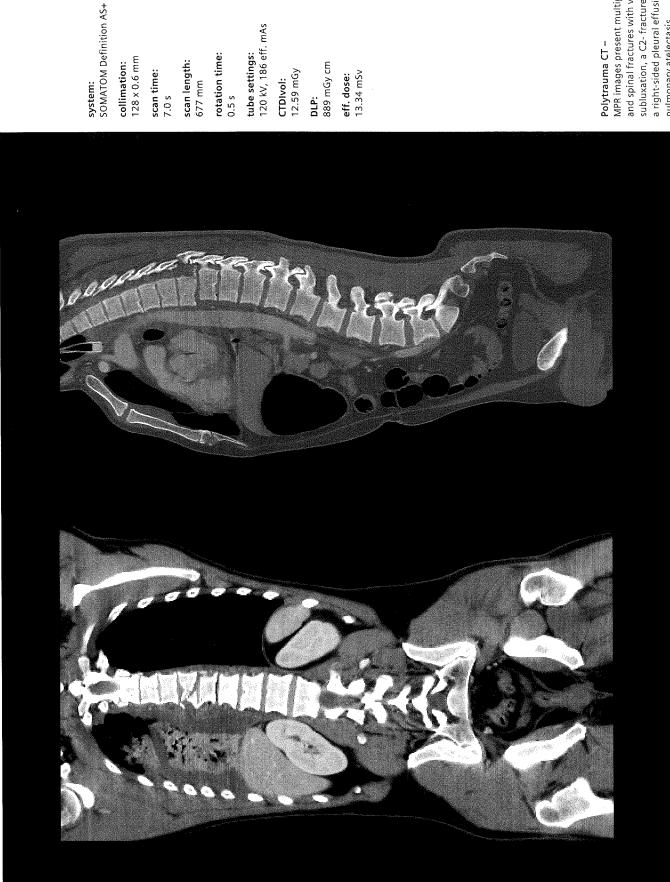
Clinical Images



Volume Perfusion CT -

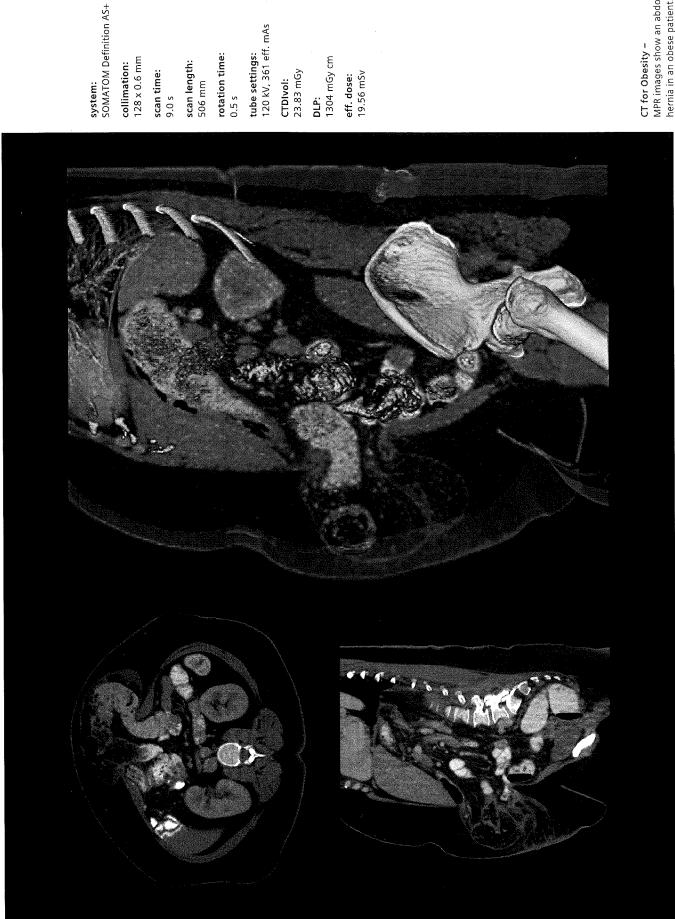
a prolonged time to drain and a mean transit time with partially reduced blood volume in the VPCT images show significantly reduced blood flow, along with left MCA territory.

University of Radiology Diagnostic, Salzburg, Austria

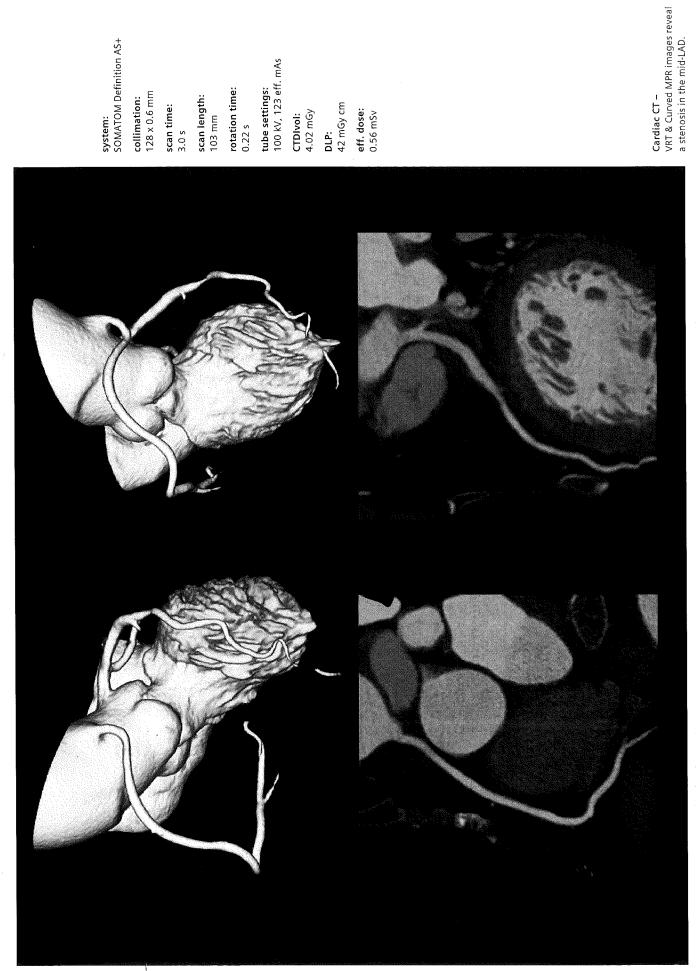


a right-sided pleural effusion with pulmonary atelectasis.

MPR images present multiple costal and spinal fractures with vertebral subluxation, a C2- fracture, and Polytrauma CT –

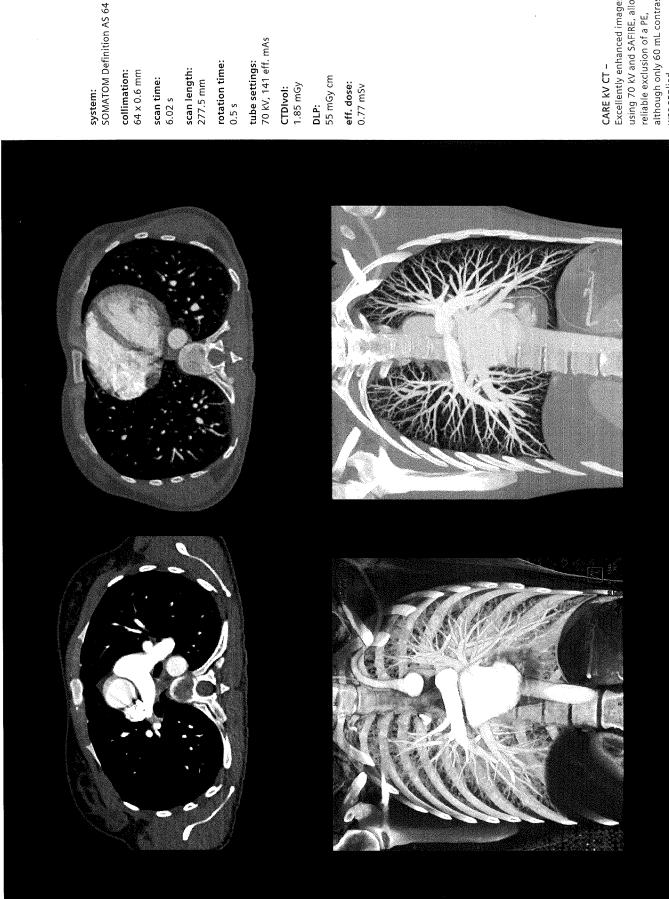


CT for Obesity –
MPR images show an abdominal hernia in an obese patient.



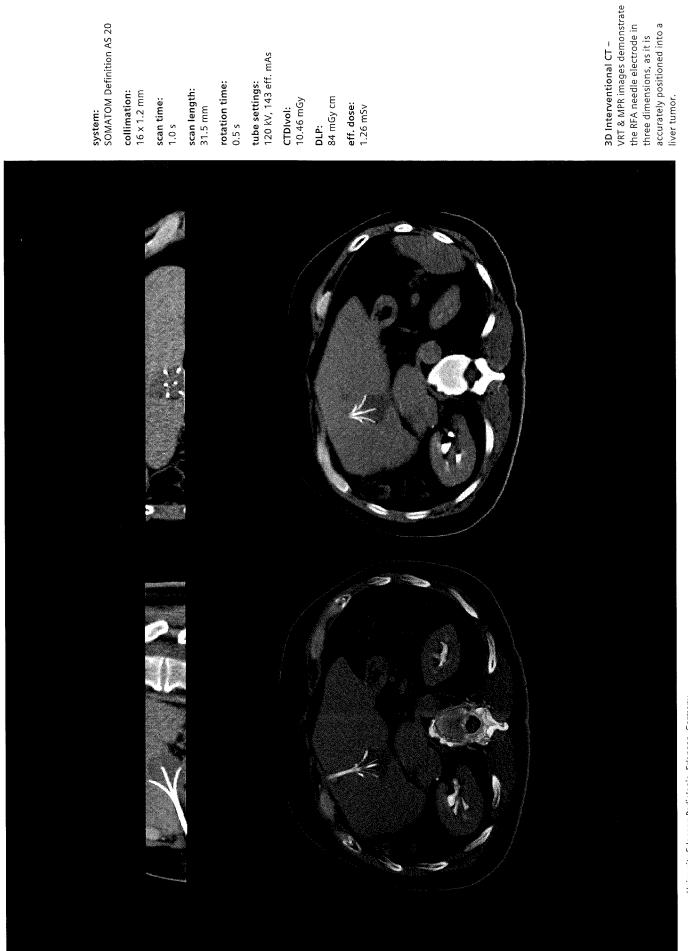
University Erlangen Radiologie, Erlangen, Germany

Department of Diagnostic and Interventional Radiology, Goethe University Frankfurt, Germany

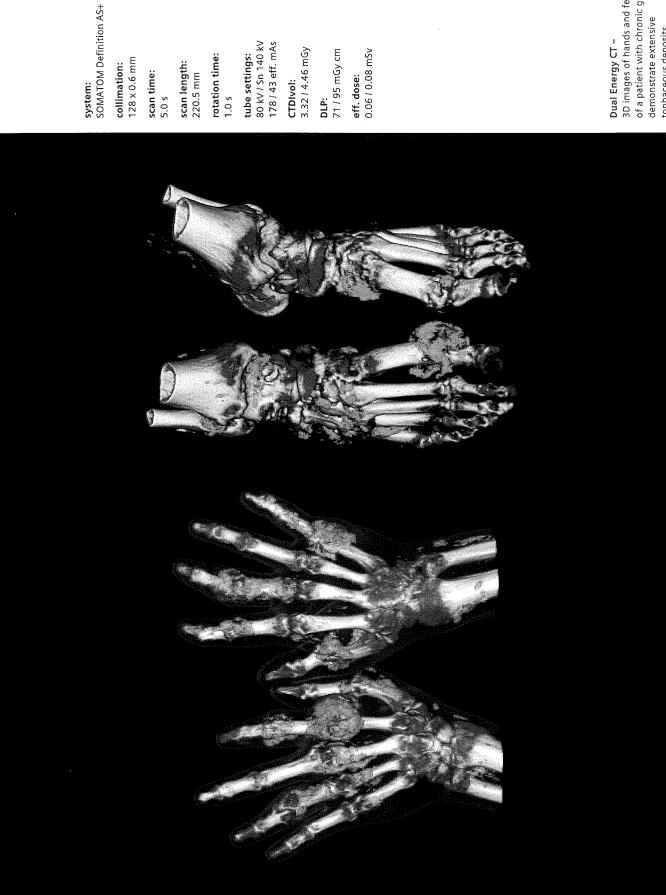


CARE KV CT -

using 70 kV and SAFIRE, allow reliable exclusion of a PE, although only 60 mL contrast Excellently enhanced images, was applied.

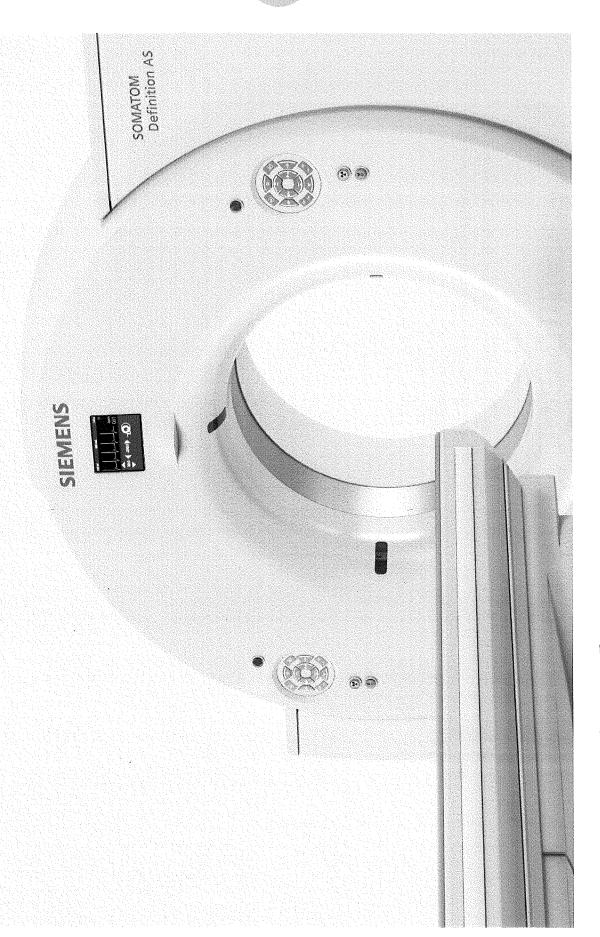


University Erlangen Radiologie, Erlangen, Germany



of a patient with chronic gout Dual Energy CT – 3D images of hands and feet, demonstrate extensive tophaceous deposits.

Nan Xi Shan Hospital, Guilin, P.R. China

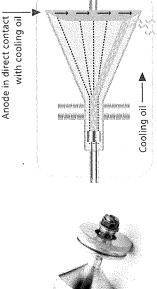


Core Technology



The STRATON wide enables long high-power scans without

cooling delays.



Fastest heat exchange

coaled airectly. Therefore, large packside of the anode can be macessary, which allows for a heat storage capacity is not STRATON tube design. The zery compact design,

an an an

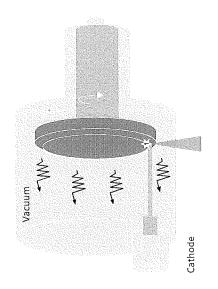
解剖療施

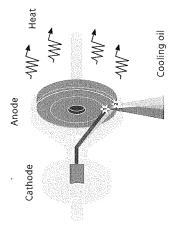
No cooling delays

achieved. This eliminates the need for heat system can perform long high-power scans (0.6 MHU). Thanks to the fast cooling, the in rapid succession without cooling delays. The STRATON tube completely cools down direct contact with the cooling oil and can storage in the anode, which consequently be efficiently cooled. This way, very high heat dissipation rate of 7.3 MHU/min are has a heat storage capacity close to zero rotating tube housing; it is therefore in power of up to 100 kW and a very high The specific construction of the anode to its original state within 20 seconds. plate constitutes an outer wall of the

Mide spectrum of selectable tube

140 kV. With 70 kV, Siemens has introduced voltages are especially beneficial for saving a tube voltage for optimized X-ray spectra selectable tube voltages from 70 kV up to dose in small patients and children who are most sensitive to radiation. It ideally The STRATON tube offers a spectrum of also in the smallest patients. Low tube partners with CARE kV, another core technology of the system.





STRATON X-ray (ube with 2-Sharp generating two distinct X-ray projections.

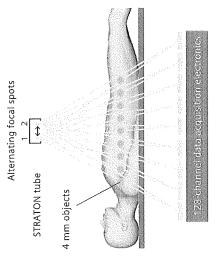
Conventional tuba teconology

# Higher resolution and reduction of

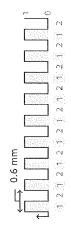
The simultaneous acquisition leads to twice the number of overlapping slices, which makes possible an increase of longitudinal resolution and reduction of spiral artifacts independent of the selected pitch. Besides being more effective in increasing the resolution in z-direction, this approach is also much more flexible, since it can be utilized in virtually all scan modes. The result is the acquisition of twice the number of slices with less artifacts and higher resolution.

# Eliminating windmill-artifacts

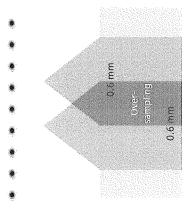
Prevention of artifacts by z-Sharp's double z-sampling technology also facilitates neurology examinations. Up to now, windmill-artifacts often occurred in spiral CT examinations of the head, for example in CT angiography examinations for aneurysms, of the neck, and of the thorax. Whithout imposing restrictions to pitch, z-Sharp technology eliminates windmill-artifacts that originate when the X-ray beam penetrates the edges of bones. CTAs of the carotid arteries and the circle of Willis can now be routinely performed at a high pitch.



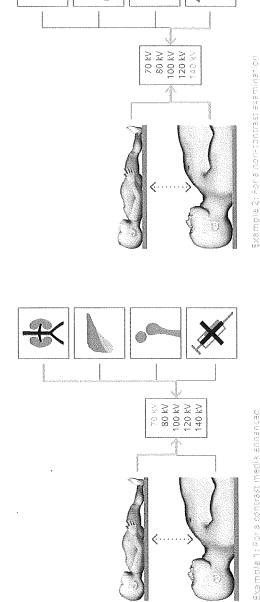
Meassured signal per datector element



Resulting resolution



Oversempling



Example 1: For a contrast media enhanced vesser examination of a small patient CARE NV suggests a scan with 70 KV and sets the other values accordingly.

of a large postent, CAPE kV suggests a stan with 140 kV and sets the other values accordingly.

Automated kV setting for best image

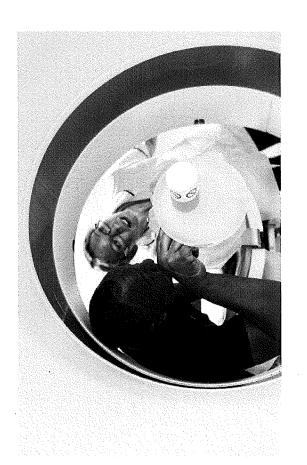
The system's proposal is based on the attenuation as measured in the topogram and the user-defined acquisition type (non-contrast, bone, soft tissue, vascular). The main goal is to keep the CNR, the key parameter for image quality, the same. For each patient exam, the topogram and the corresponding attenuation information are used to determine the optimal kV. Even in bariatric patients, CARE kV sets the parameters to make full use of the system's reserves to optimize CNR and acquire the best image quality possible for the patients.

possible.

Pedicated pediatric scanner settings
Reducing the tube voltage helps to reduce radiation exposure to patients. While other tubes are limited to a minimum voltage setting of 80 kV, with the STRATON tube the voltage range is extended as low as 70 kV. This helps to further reduce radiation dose to small pediatric or neonate patients. These dedicated pediatric scan modes, bundled with CARE kV and specific pediatric CARE Dose4D curves and protocols, take care of the well-being of our youngest patients. Overall with these features, an additional dose reduction of up to 60% is

Fully customizable

CARE kV is, of course, fully customizable, meaning that users can not only set their individual quality reference mAs, but can also choose the degree of system assistance between none, semi, and full. As the complete SOMATOM Definition AS system, it offers full flexibility to users and adapts to their specific needs and clinical challenges.



operators. In addition, dedicated consultancy Personalized education and training are the customers develop a customized roadmap key to more expertise, greater efficiency, Improved operation with User Services example, is a comprehensive program to of system usage. Optimize CARE CT, for services facilitate further improvement scanning. The program provides expert insights, methods, and tools that help help customers reduce radiation in CT and higher productivity of the system towards improving their CT dose.

with technical experience and radiological optimization and consulting help improve efficiency, system utilization, and return from the Utilization Management report on investment. Utilization Management Consulting combines quantitative data Increased workflow optimization and and improvement potential across all can then learn about their strengths better productivity through process workflow management. Customers Optimized utilization with Management Services

professional groups.

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# **Attachment B**

**Equipment Use Documentation** 

University CT Volume				
15-Feb	1,422			
15-Mar	1,407			
15-Apr	1,390			
15-May	1,445			
15-Jun	1,463			
15-Jul	1,598			
15-Aug	1,556			
15-Sep	1,339			
15-Oct	1,348			
15-Nov	1,338			
15-Dec	1,558			
16-Jan	1,506			
Total	17,370			

# Attachment C

**Equipment Vendor Quote** 

Siemens Medical Solutions USA, Inc. 40 Liberty Boulevard, Malvern, PA 19355 Fax: (336) 856-9995

SIEMENS REPRESENTATIVE Edwin Winicki - (336) 688-0978

Customer Number: 0000035965

Date: 1/25/2016

### **CAROLINAS HEALTHCARE SYSTEM**

1000 BLYTHE BLVD CHARLOTTE, NC 28203

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.

Quote Nr:

1-D2QKX2 Rev. 1

Trade:

**GE Lightspeed 16** 

**Terms of Payment** 

00% Down, 80% Delivery, 20% Installation

Free On Board: Destination **Premier Purchasing Partners** 

**Purchasing Agreement Terms and Conditions** 

Premier terms and conditions apply

**Proposal Valid Until** 

9/30/2016

### **Somatom Definition AS-64 with Interventional Suite**

#### Qty

#### Part No.

### **Item Description**

14444263

### **SOMATOM Definition AS (64slice)**

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. 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 The fast rotation time of 0.33 seconds (0.3 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.

14420773

### **FAST CARE Platform**

Siemens' unique FAST CARE platform is set to raise the standard of patient-centric productivity. Utilizing FAST -

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40 Liberty Boulevard, Malvern, PA 19355

Fax: (336) 856-9995

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SIEMENS REPRESENTATIVE

Edwin Winicki - (336) 688-0978

### Qty Part No. Item Description

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.

### 1 14420771 CARE Child

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

### 1 14433993 FAST Planning #AWP

Direct, organ-based setting of scan and recon ranges for a faster and more standardized workflow

### 14419142 Workstream 4D #AWP

WorkStream 4D further enhances the already superb workflow of the SOMATOM Definition AS 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.

#### 1 14419144 DICOM SR Viewer #AWP

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.

#### 14420824 Standard IRS

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 14420766 **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 superior 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, homogenity, low-contast 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.

### 14444243 **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.

iMAR is compatible with extended FoV, the extended CT scale as well as the newest dose reduction feature.

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

#### 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.

#### 14408152 **UH**I

14408111

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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

#### 14408329 CT Replacement AS

SOMATOM Definition AS base configuration.

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Qty	Part No.	Item Description
1	14408032	Rear cover incl. gantry panels Rear Cover including gantry control panels with control functionality from the backside.
1	14408094	Keyboard English Keyboard in the above-mentioned language.
1	14408023	Cooling System Water  Water heat exchanger for the dissipation of heat loss generated in the gantry to an environmentally friendly cooling water circulation system.  This optimizes system availability independently of the cooling water flow rate and temperature.  System operation temperature 4 - 16 degrees C and 500 - 2500 l/h flow rate.
. 1	14408026	Hose pipe insulated 30 m  Hose pipes to connect the "Cooling System" with the gantry.
1	14408031	Cable loom 25 m Cable loom used to connect the power distribution system (PDS) with the gantry.
1	14420777	Patient Table 2000 mm  Patient table to support up to 200cm scan range. Motor-driven table height adjustment from min. 48 cm to max. 92 cm, longitudinal movement of the tabletop 200 cm in increments of 0.5 mm, positioning accuracy +/- 0.25 mm from any direction. Horizontal scan range 200 cm. 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, Table feed speed: 2-200 mm/s, Distance between gantry front and table base 40 cm.  Positioning aids: Positioning mattress, 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 with positioning mattress, knee-leg support.
1	14420929	Mattress for Patient Table  For the comfortable positioning of the patient on the CT 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	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

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Any special rigging requirements (Crane, stairs, etc.) and/or special site requirements (e.g. removal of existing

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Qty	Part No.	Item Description
		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_AS64X _CC_BON	AS64 Excel Comp Conversion Bonus
1	CT_INITIAL_32	Initial onsite training 32 hrs
	OT FOLLOWIL	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_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 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.
2	CT_TECH_SY MP	Siemens Technologists Symposium
		This accredited annual imaging professional symposium will provide multi-modality clinical education sessions for (1) attendee. Registration, economy airfare, and lodging are included for (1) attendee. All arrangements must be arranged through Siemens designated travel agency. 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_16	Additional onsite training 16 hours
		Up to (16) 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	CTSDEF01	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. Shipped with main cover, a catheter bag holder, and 3 restraining belts unless otherwise noted. Includes warranty from RADSCAN Medical.
1	4SPAS014	Low Contrast CT Phantom & Holder
1	CT_LUNGIMA GINGAS64	Lung Imaging
		This SOMATOM Definition scanner offers two specific scan protocols to provide Lung Imaging at 1.5 mGy CTDI or greater and for use with post-processing applications
1	ACCESS_PRO TECT	Access Protection
	٠.	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_DASHB OARD	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_DOSE4 D	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
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Qty	Part No.	Item Description
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_PROFL	
1	DICOM_SR	DICOM SR Dose Reports DICOM structured file allows for the extraction of dose values (CDTIvol, DLP)
1	DOSE_ALERT	Dose Alert  Dose Alert: As requested by the new release of the standard IEC 60601 3rd edition, the SOMATOM Definition automatically adds up CTDIvol and DLP depending on z-position (scan axis). The Dose Alert window appears, if either of these cumulative values exceeds a user-defined threshold.
DOSE_NOTIFI 1 CATION  Dose Notification  Dose Notification  Dose Notification: As requested by the new release of the standard IEC 60601 3rd edition		Dose Notification: As requested by the new release of the standard IEC 60601 3rd edition, the SOMATOM Definition AS provides the ability to set dose reference values (CTDIvol, DLP) for each scan range. If these
1	FAST_ADJUST FAST Adjust FAST Adjust FAST Adjust FAST Adjust: assists the user to handle system settings in a fast and easy way by automatically solving within user defined limits by one single click on the FAST Adjust button. The limits for scan time an understand per scan are defined via the Scan Protocol Assistant. FAST Adjust offers an undo functionality previously set values.  FAST_SCAN_A SSIST FAST Scan Assistant FAST Scan Assistant FAST Scan Assistant: An intuitive user interface for solving conflicts by changing the scan time, rand/or the maximum tube current manually.	
1		
1	NEMA_XR-29  NEMA_XR-29 Standard  This system is in compliance with NEMA XR-29 Standard Attributes on CT Equipment Related to E and Management, also known as Smart Dose.	
1	PSPD250480Y 3K	Surge Protective Device (SPD)
1	CT_ADDL_RIG GING	Additional Rigging CT \$7,020
1	CT_SERV_CO NTRACT	Service Evolve Contract @ \$31,200
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	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	14408105	Dual 19" Monitor #AWP Second 19-inch monitor for the Acquisition workplace (AWP)

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**SIEMENS REPRESENTATIVE** Edwin Winicki - (336) 688-0978

### Qty Part No.

### Item Description

14447353

### **Dual Monitor Ceiling Support**

The dual monitor solution enables access to images and scan data while interacting with the patient in the scan room. The high resolution, flicker free, 19-inch (48 cm) color flat panel displays are mounted at the ceiling support. The space-saving ceiling installation along with the large movement range of the support allow maximum operating convenience when positioning the monitor.

19" flat screen monitor (2x)

The 19" monitors support CT interventions and CT fluoroscopy with a display in the examination room.

**Dual Monitor Ceiling Support** 

The Dual Monitor Ceiling support consists of: video transmitter, video receiver, power supply cable and a 30 m fiber-optic cable set for connecting the flat screen monitors. Displays suitable for medical diagnostic applications (room class 1 and 2 acc. To DIN 6868-157).

Ceiling Support Base

Ceiling support for the accommodation and safe installation of one or two flat screen monitors in the examination room.

Sell Price (excluding trade and freight): \$ 648,980

Freight and Rigging: \$ 16,020

GE Lightspeed 16 Trade Value: \$ (\$65,000)

Final Price (including trade): \$ 600,000

Estimated Tax (final tax is computed at time of installation): \$43,500

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Currency: USD

### Quotation

Quote To: UNIVERSITY HOSPITAL 8800 N Tryon St CHARLOTTE NC 28262-3300 UNITED STATES OF AMERICA

Bayer HealthCare LLC 1 Bayer Drive Indianola, PA 15051

Quotation number: 0020019987 Customer number: 0000172176 Date: 02/12/2016

Page:

1

Valid from: 02/12/2016 to 08/30/2016

Trey Karn Professional Sales Consultant 864-415-2397 trey.karn@bayer.com

We deliver according to the following terms and conditions:

Terms of payment: 30 d. w/o discount of inv. net

Terms of delivery: Free carrierFOB SHIPPING POINT

Item	Part No	Qty	Unit Price	UoM	Amount
1	60726807				
	SCT 322	1 PCE	49,500.00	1 PCE	49,500.00
	DUAL STELLAN	T W/CERTEGRA WKS OCS			
	Discount (Value)		20,290.00-		20,290.00-
	Discount (Value)		8,960.00-		8,960.00-
	Net value		20,250.00		20,250.00

If pricing and terms of this order are based upon your current Group Purchasing Organization (GPO) affiliation, any change to your current affiliation may require a new quote or updated terms and pricing.

When applicable, State and Local taxes will be calculated on the order. If you are exempt from taxes, contact customer support at 1(800)633-7231. Thank you for your order!



### Quotation

Item	Part No	Qty	Unit Price	UoM	Amount
2	59943360				
	INS SCT CS INSTALLATION - S	1 PCE STELLANT WITH OCS	2,650.00	1 PCE	2,650.00
	Discount (Value)		250.00-		250.00-
	Net value		2,400.00		2,400.00
			Sub	Total	22,650.00
			T	otal	22,650.00

NOTE: If using signed quote as a purchase order please complete the following information:

Print Name:			 	 	
Signature:		-			
Title:					******
PO #:	<u> </u>		 	 	
Phone #:		M.A		*	

If pricing and terms of this order are based upon your current Group Purchasing Organization (GPO) affiliation, any change to your current affiliation may require a new quote or updated terms and pricing.



#### BAYER PRODUCT TERMS AND CONDITIONS

If Customer is a member of a group purchasing organization ("GPO") who has a contract with Bayer, the terms of that GPO Agreement will supercede the terms herein.

The following terms and conditions will not apply to the license of Bayer's Informatics Software. Both Radiation Dose Management software (sometimes referred to as "RDM") and Contrast Dose Management (sometimes referred to as "CDM") software are subject to a separate license agreement.

- 1. Modifications. The prices and terms on this Quote are not subject to verbal changes or other agreements unless approved in writing by Bayer.
- 2. Acceptance. Bayer's products and services are sold only under the terms and conditions stated on this quotation. Acceptance of any Purchase Order is expressly and exclusively made conditional on your assent to these terms and conditions. Any different or additional terms and conditions that may appear in your Purchase Order or any other document sent by you, shall have no effect. Bayer expressly objects to and rejects all inconsistent or additional terms, conditions and limitations contained on any of your forms or other writings. If you do not communicate your objection to these terms and conditions in writing and within a reasonable time, or if you accept the goods covered by this Quote, you will be deemed to have accepted these terms and conditions and they will control in all instances. If the Products include embedded software or if you are purchasing software, BY HAVING THE SOFTWARE INSTALLED AND USING THE SOFTWARE PURCHASED HEREUNDER, YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS QUOTE, DO NOT INSTALL OR USE THE SOFTWARE AND NOTIFY BAYER IMMEDIATELY.
- 3. Pricing. Prices are based on costs and conditions existing on the date of this Quote and may be changed by Bayer before final acceptance. The pricing for products provided pursuant to this Quote may reflect or be subject to discounts, rebates, or other price reduction programs. Please be advised that you are obligated to: a) fully and accurately disclose the amount of any such discounts, rebates, or other price reductions in your cost reports or claims for reimbursement to Medicare, Medicaid, or health care programs requiring such disclosure and b) provide such documentation to representatives of the Secretary of the Department of Health and Human Services and state agencies upon request. Unless noted otherwise, the value of any product listed as \$0.00 on this Quote may constitute a discount that you should evaluate when filing such reports. You may request additional information from Bayer in order to meet your reporting or disclosure obligations, by writing to the address set forth in this Quote. All payments are due net thirty (30) days on the total invoiced amount. For all new customers Bayer requires a thirty percent (30%) pre-payment for all capital equipment orders, unless otherwise agreed to by Bayer. Bayer must approve any payment terms other than net thirty (30) days.
- 4. Shipping. All shipping dates are tentative. Bayer will make every reasonable effort to meet shipping dates referenced in this Quote. However, Bayer will not be liable for its failure to meet any such date.
- 5. Installation. The cost of installation is not included in the product price and is your responsibility unless otherwise stated. For details on equipment installation, you should consult with your Bayer Sales Representative or refer to your Products Manual, which is included with your equipment.

If this Quote includes installation of an overhead counterpoise system (OCS) it is your responsibility to ensure a suitable mounting location for the system. The counterpoise ceiling plate is required to be installed prior to Bayer installation of the counterpoise system and installed in accordance with the specifications listed in the installation manual. The OCS ceiling plate should always be installed by a qualified Structural Engineer and/or Architect. In addition, if applicable building codes require the use of a conduit, you are responsible for ensuring that a conduit is available prior to Bayer's installation.

If this Quote includes a Spectris Solaris with an Integrated Continuous Battery Charging System (iCBC), installation will require a standard power outlet in the scan room, or authorization to install a filter through the penetration panel.

6. License. If the Products include embedded software, or if you are purchasing software, Bayer grants to you a non-exclusive license to use such software provided by Bayer, solely in connection with, or to operate, the Products. Use of the software for any other purpose is strictly prohibited. This license is effective on the date you begin using the Products and software and will continue in effect unless you return the Products or software or if the license is terminated because

Please reference the quote number on your PO and fax to 412-406-0952



you breach any provision of these Terms. Upon termination you shall immediately cease use of all software and shall return the Products and software to Bayer. The software copyright is owned by Bayer and is protected by United States copyright laws and international treaty provisions. Bayer does not transfer title to the software to you, but retains the rights to make and license the use of all copies. You shall not copy, translate, disassemble, or decompile nor create or attempt to create, by reverse engineering or otherwise, the source code from the object code of the software. You are not permitted to modify or make derivative works of the software and ownership of any unauthorized modification or derivative work shall vest in Bayer.

7. Warranty. Bayer warrants that all new Bayer products are free from defects in workmanship or material under proper, normal use and service for a period of one year (12 months) from shipment, unless a longer period is provided on the warranty with the products, or as otherwise provided herein.

Bayer warrants that all refurbished Bayer products shall perform in accordance with the documentation provided, under proper, normal use and service for a period of the shorter of a) 90 days from installation or b) six months from shipment, unless a longer period is provided on the warranty with the products, or as otherwise provided herein.

If this Quote includes disposable products, Bayer's warranty shall be limited to repair or replacement of any defective disposable product upon receipt of the defective product and a Bayer Return Goods Authorization. You acknowledge that the disposables and the equipment are a system and your actions regarding your equipment may invalidate your warranty on the disposables.

During the warranty period, there shall be no charge for any action deemed necessary by Bayer, including parts, travel, or labor to fulfill the terms of the warranty, during local business hours of 8:30 a.m. to 5:00 p.m., Monday through Friday, except Bayer holidays.

Your actions may invalidate this warranty. If Bayer determines that an equipment or disposable problem is due to any of the following, you agree to pay Bayer for all labor, travel, material handling and shipping at Bayer's, or Bayer's agents, standard rates:

- a) Malfunction or damage due to spillage of any type of fluid in or on the unit.
- b) Malfunction due to operator error, including failing to follow specified provisions of the Operations Manual.
- c) Malfunction or damage due to unauthorized modification or repair. Unauthorized actions may jeopardize functionality, reliability, or operator and patient safety. Therefore any claim caused by unauthorized modification or repair shall not be covered by this warranty and Bayer is relieved from any further obligation. Bayer must review and authorize all modifications and repairs. This service may be obtained by contacting the Bayer Service Department.
- d) Malfunction or damage due to the use of non-Bayer or non-approved accessories. The use of accessories in connection with the equipment may jeopardize functionality, reliability or operator and patient safety. Therefore any claim caused by the use of non-Bayer or non-approved accessories (such as non-Bayer disposables or in the case of any PET/CT product, the use of vials or vial shields that are not approved by Bayer) shall not be covered by this warranty and Bayer is relieved from any further obligation.
- e) Damage by fire, floods, or other disaster commonly known as "Acts of God".
- f) If the Products include any Counterpoise system, any system malfunction, damage or failures due to improper installation or not meeting Bayer's specific requirements for level and plumb and/or loading as specified in the Bayer manuals.
- g) If the Products include any Counterpoise system, any ceiling or wall support structure used to mount or support an Injector Head Counterpoise System is excluded from Bayer's warranty. Bayer does not in any way warrant such structure.
- 8. Warranty Exclusions. EXCEPT AS PROVIDED IN THE ABOVE WARRANTY SECTION, BAYER EXPRESSLY DISCLAIMS ALL WARRANTIES OR CONDITIONS OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, NONINFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE (WHETHER OR NOT BAYER IS AWARE OF YOUR INTENDED USE OF THE PRODUCT), AND ALL SUCH WARRANTIES ARE EXPRESSLY EXCLUDED. IN NO EVENT SHALL BAYER BE LIABLE FOR ANY LOST PROFITS

Please reference the quote number on your PO and fax to 412-406-0952



OR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OR OPERATION OF BAYER'S PRODUCT OR SERVICE. Some states do not allow the exclusions on limitation of incidental or consequential damages, so the above limitations may not apply. This Limited Warranty gives you specific legal rights and you may also have other rights.

- 9. Software Warranty. If the Products include embedded software or if you are purchasing software, Bayer warrants that the software will substantially conform to the functional specifications contained in the Operations Manual for one year following delivery. This warranty shall not apply if you use the software in a manner that is not authorized or not in accordance with the user instructions or if you modify the Products or the software or if a party other than Bayer provides service to the Products or software. Bayer does not warrant that the software will operate uninterrupted or that it will be free from minor defects or errors that do not materially affect its performance. Your sole and exclusive remedy for any damages or loss in any way connected with the software whether due to Bayer's negligence or breach of any other duty shall be, at Bayer's option: i) to bring the performance of the software into substantial compliance with the functional specifications or ii) return of an appropriate portion of any payment by you with respect to the portion of the software that is not functioning.
- 10. Indemnification. Bayer agrees to indemnify, defend and hold you harmless from any liability, loss, expense, cost, claim or judgment (including attorneys fees), arising out of any claim for property damage, or personal injury or death where the product is alleged to have caused or contributed to the damage, injury or death, provided that this indemnification does not extend to injuries, damages or death to the extent caused by the negligence, reckless disregard or intentional acts of you or any third party.
- 11. Force Majeure. Bayer will not be responsible for delays or non-performance directly or indirectly caused by any acts of God, fire, explosion, flood, war, accident, action by governmental authority, inability to procure supplies and raw materials, delays in transportation, work stoppage, court order, and other causes beyond Bayer's reasonable control.
- 12. Compliance With Laws/Export. In addition to any rights and remedies specifically identified here in this Quote, Bayer shall have all rights and remedies conferred by law. Bayer shall not be required to perform its obligations under this Quote if you have defaulted (e.g. failed to pay) under this Quote or any other contract involving Bayer. This Agreement shall be construed in accordance with the laws of the Commonwealth of Pennsylvania, United States of America. You warrant that you are and will remain in compliance with all export and re-export requirements, laws and regulations of the United States of America and any other applicable export and re-export laws and regulations.
- 13. HIPAA. Bayer represents that it is not a Business Associate as defined in the Health Insurance Portability and Accountability Act ("HIPAA"). The functions Bayer is required to perform hereunder do not require the use or disclosure of Protected Health Information ("PHI"). To the extent any disclosure of PHI does occur, it is incidental and covered under the incidental disclosure rule found in 45 CFR 164.502(a)(1). In addition, to the extent any such incidental disclosure does occur, Bayer agrees to keep all such information confidential.



# Attachment D

**Equipment Disposal Letter** 

January 25, 2016

Carolinas Healthcare System
Attn: Ms. Lorie Lowder
Associate Vice President
Carolinas Medical Center - Northeast
920 Church Street, North
Concord, NC 28025

### Dear Lorie Lowder,

The purpose of this letter is to confirm that Siemens Medical Solutions USA, Inc. (Siemens) will be responsible for removing your existing GE Lightspeed 16 CT with Serial Number 79197TY0 ("existing equipment") as part of your purchase of the Siemens Definition AS-64 for Carolinas Medical Center - University. The cost for the deinstallation and removal is included in the price quotation for the replacement equipment, which totals \$ 600,000 (\$665,000 sale price minus \$ 65,000 trade).

The system will be removed from Service by a broker designated by Siemens for either resale purposes or parts. The system will not be placed into Service by Siemens in North Carolina without proper state approvals.

Sincerely,

Edwin Winicki

Key Account Executive Siemens Healthcare, USA

## Attachment E

Capital Cost Schedule and Architect Signature

### PROPOSED TOTAL CAPITAL COST OF PROJECT

Project name: Provider/Company:		ame:	CHS University CT 1 Replacement			
		Company:	Carolinas Health	Carolinas HealthCare System		
	<b>~.</b>					
A.	Site (		01 1			
	(1)	Full purchase price			*******	N/A
	(0)	Acres	Price per Acre	<u> </u>		
	(2)	Closing costs	_			N/A
	(3)	Site Inspection and				N/A
		Legal fees and subs				N/A
	(5)	Site Preparation Co Soil Borings	osts			
		Clearing-Earthw				
		Fine Grade for S				
		Roads-Paving	Siau			
		Concrete Sidew	ollea			
		Water and Sewe				
		Footing Excava	· <del>·</del>			
		Footing Backfill				
		Termite Treatme				
		Other (Specify)	DIII.			
			Preparation Costs			NT/A
	(6)	Other (Specify)	reparation costs			N/A
	(7)	Sub-Total Site Cos	rte		_	N/AN/A
В.		truction Contract	,		_	IV/A
	(8)	Cost of Materials				
		General Require	ements		Included	
		Concrete/Mason	arv		Included	
		Woods/Doors &	Windows/Finishes		Included	
		Thermal & Mois	sture Protection		Included	
		Equipment/Spec	ialty Items		Included	
		Mechanical/Elec	etrical		Included	
		Other (Specify)			Included	
		Sub-total Cost of M	laterials			Included
	(9)	Cost of Labor				Included
٠		Other (Specify)		A A A A A A A A A A A A A A A A A A A		Included
	(11) Sub-Total Construc					\$182,450
C.		ellaneous Proiect Co	osts			
		Building Purchase			_	<u>N/A</u>
		Fixed Equipment Pr				\$762.251
		Movable Equipmen	t Purchase/Lease		_	N/A
		Furniture				N/A
		Landscaping			·	N/A_
	(1/)	Consultant Fees	A Factor of F		*	
			nd Engineering Fees		\$42,000	
		Legal Fees Market Analysis			N/A	
	•	TAB/DHSR	i		N/A	
		Other (Abatemer	mt)		\$5.000	
		Sub-Total Consultar			N/A_	<b>0.47</b>
	(18)	Financing Costs (e.s				\$47,000
		Interest During Con				N/A
		Other (Security, IS,				N/A \$28,500
		Sub-Total Miscella				\$28.500 \$837.751
			of Proiect (Sum A-(	Cabove)	_	\$1.020.201
						01.040.401

## PROPOSED TOTAL CAPITAL COST OF PROJECT

Project Name: Provider/Company:	
I certify that, to the best of my knowledge, the above proposed project named above are complete and cor	construction related costs of the rect.
(Signature of Licensed Architect or Engineer)	NC 3963