

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

Pat McCrory Governor Aldona Z. Wos, M.D. Ambassador (Ret.) Secretary DHHS

> Drexdal Pratt Division Director

December 17, 2013

A. Todd Howell Chief Operating Officer Columbus Regional Healthcare System 500 Jefferson Street Whiteville, NC 28472

# No Review

Facility or Business: Columbus Regional Healthcare System

Project Description: Acquire new fixed CT scanner

County: Columbus

FID #: 923111

Dear Mr. Howell

The Certificate of Need Section (CON Section) received your letter of December 11, 2013 regarding the above referenced proposal. Based on the CON law in effect on the date of this response to your request, the proposal described in your correspondence is not governed by, and therefore, does not currently require a certificate of need. However, please note that if the CON law is subsequently amended such that the above referenced proposal would require a certificate of need, this determination does not authorize you to proceed to develop the above referenced proposal when the new law becomes effective.

Moreover, you need to contact the Construction and the Acute and Home Care Licensure and Certification Sections of the Division of Health Service Regulation to determine if they have any requirements for development of the proposed project.

It should be noted that this determination is binding only for the facts represented by you. Consequently, if changes are made in the project or in the facts provided in your correspondence referenced above, a new determination as to whether a certificate of need is required would need to be made by the Certificate of Need Section. Changes in a project include, but are not limited to: (1) increases in the capital cost; (2) acquisition of medical equipment not included in the original cost estimate; (3) modifications in the design of the project; (4) change in location; and (5) any increase in the number of square feet to be constructed.



#### **Certificate of Need Section**

Please contact the CON Section if you have any questions. Also, in all future correspondence you should reference the Facility I.D. # (FID) if the facility is licensed.

Sincerely,

Gregory F. Yakaboski, Project Analyst

Craig Romith, Chief

Certificate of Need Section

cc: Medical Facilities Planning Section, DHSR

Construction Section, DHSR (Not Hospice Home Care/ Home Health) Acute and Home Care Licensure and Certification Section, DHSR





December 11, 2013



Mr. Craig R. Smith, Chief Certificate of Need Section Division of Health Service Regulation 2704 Mail Service Center Raleigh, North Carolina 27696-2704

RE: Notice of Exemption: Addition of new computed tomography ("CT") Scanner Equipment

Dear Mr. Smith:

Through this letter, Columbus Regional Healthcare System ("CRHS") is providing prior written notice of its plans to acquire a new fixed CT scanner located in the hospital's existing radiology department. CRHS believes that the proposed additional equipment is not subject to review under North Carolina's Certificate of Need (CON) laws.

The proposed project includes the acquisition of a GE Optima CT 540 (See Appendix A). The new equipment will be placed in a renovated work room in the existing radiology suite. This additional scanner is being added due to an increase in outpatient volumes as well as there is currently no back-up scanner in place. In the event of downtime, inpatients are transported via Paramedic Transport Services to another facility for CT Imaging. Currently with one scanner, outpatients have extended wait times due to emergent patient scans ordered via the Emergency Department. The total cost of the proposed project to purchase and install the new CT equipment is \$684,890. As shown by the enclosed proposed purchase order, this price includes the cost of the CT scanner, room renovations, and new contrast injector with dose reporting software.

Please confirm that the addition of this equipment does not constitute a new institutional health service subject to certificate of need ("CON") review within the meaning of N.C. Gen. Stat. § 131E-176(16) and is exempt from CON review. Specifically, the proposed project does not meet the definition of major medical equipment as defined in of N.C. Gen. Stat. § 131E-176 (140) since the total capital expenditure for the project is less than \$750,000. Therefore, CRHS believes the proposed project is exempt from review and requests approval of a no review status for the proposed project.

We look forward to receiving your letter confirming CRHS's addition of a new CT scanner in the hospital's existing radiology department is exempt from CON review. If you have

any questions or require further information regarding this project please contact me at 910-642-1705.

Sincerely,

A. Todd Howell, FACHE

Chief Operating Officer/VP of

Operations

Columbus Regional Healthcare

System

Attachments



# Attachment A

Quotation Number: PR2-C3409 V 8

Columbus County Hospital 500 Jefferson St Whiteville NC 28472-3634

Attn: Jason Beck Director of Imaging 500 Jefferson St Whiteville NC 28472 Date: 08-02-2013

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

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

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

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

This Quotation is subject to withdrawal by GE Healthcare at any time before acceptance. Customer accepts by signing and returning this Quotation or by otherwise providing evidence of acceptance satisfactory to GE Healthcare. Upon acceptance, this Quotation and the related terms and conditions listed above (or the Governing Agreement, if any) shall constitute the complete and final agreement of the parties relating to the Products identified in this Quotation. The parties agree that they have not relied on any oral or written terms, conditions, representations or warranties outside those expressly stated or incorporated by reference in this Agreement in making their decisions to enter into this Agreement. No agreement or understanding, oral or written, in any way purporting to modify this Agreement, whether contained in Customer's purchase order or shipping release forms, or elsewhere, shall be binding unless hereafter agreed to in writing by authorized representatives of both parties. Each party objects to any terms inconsistent with this Agreement proposed by either party unless agreed to in writing and signed by authorized representatives of both parties, and neither the subsequent lack of objection to any such terms, nor the delivery of the Products, shall constitute an agreement by either party to any such terms.

By signing below, each party certifies that it has not made any handwritten modifications. Manual changes or mark-ups on this Agreement (except signatures in the signature blocks and an indication in the form of payment section below) will be void.

Terms of Delivery:

**FOB Destination** 

• Quotation Expiration Date:

09-21-2013

• Billing Terms:

100% billing at Ship Completion (Fulfillment) / Delivery

• Payment Terms:

**60 DAYS NET** 

Governing Agreement:

CSS-GEHC MVA July 15 2011

Each party has caused this agreement to be signed by an authorized representative on the date set forth below. Please submit

GE HEALTHCA	ARE James Benecki	Dete	INIDICATE CODM OF DAVIMENT.
	Product Sales Specialist	Date	INDICATE FORM OF PAYMENT:
	US Phone: (615) 390-3634		(If there is potential to finance with a lease transaction, GE HFS or otherwise, select lease.)
Fax: (910) 401-1049			Cash * Lease HFS Loan
CUSTOMER	Jim.Benecki@ge.com		If financing please provide name of finance company below*:
	Authorized Customer	Date	
	Print Name and Title PO #		*Selecting Cash or not identifying GE HFS as the finance company declines option for GE HFS
			financing.
	Desired Equipment First Use Date		
	GE Healthcare will use reasond meet Customer's desired equip date. The actual delivery date agreed upon by the parties.	able efforts to oment first use will be mutually	

Qty	Catalog No.	Description
Ŧ - IJ		

# 1 S7540JA

#### GE Optima CT 540 - 50 slice speed w ASiR

The Optima CT540 is GE's latest generation intelligent CT system. It is a CT platform that combines many of the advanced ease of use innovations of our Optima CT660 series with the image quality of the BrightSpeed Elite. The CT540 is all about improving your patients experience to make your studies more effective from start to finish. This Optima CT540 is ready to be your diagnostic partner.

# Key Features:

- Exclusive VariSpeed allows full 360 degree rotation in 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 2.0 seconds, ensuring short breath holds, more comfortable exams and flexibility.
- Routine thin slice scanning, as thin as 0.625mm helping to optimize lesion detection and facilitating the use of thinner images for sagittal, coronal, oblique, and volume image presentation and review.
- Efficient gantry geometry design delivers equivalent imaging flux performance compared to a system with larger geometry and higher generator power.
- IQ Enhance (IQE) reconstruction reduces helical Artifact Index in thin slice helical scanning. This reduction in artifacts makes it possible to scan at faster helical pitches. #
- GE proprietary, advanced interpolation algorithms balance slice profile, helical pitch, image noise, and required technique.
- Image decomposition to:
  - Retrospective thin images from data sets where thicker images were initially reconstructed
  - Facilitates more detailed image analysis
  - Improves 3D and reformat visualization
- Dose Check, a tool that helps the user to estimate and check the dose delivered in clinical practice. It is based on the standard XR-25-2010 published by the Association of Electrical and Medical Imaging Equipment Manufacturers (NEMA)

Xtream Suite workflow management built to help you maximize productivity;

- Xtream 12" gantry display enables
  - One Step patient positioning
  - Personalized patient care
  - Informational videos for all patients
  - Distraction videos for pediatric patients
- One-touch protocol workflow delivering tailored visualization mode for exam review, directly built into the protocols, and available "1 click" on the operator console or the post-processing workstation.

Description

- 3-click scan start workflow with pre-programmable protocol setting functions enables a starting a scan in as few as 3 clicks.
- Up to 6 frames per second reconstruction speed (16fps option)
- 10 Prospective Multiple Reconstruction (PMR) can be pre-programmed as part of the scan protocol prior to acquisition
- Volume Viewer 3D reconstruction capabilities
- Direct Multi-Planar Reformatting (MPR) with Auto-Batch feature, affording automatic real-time direct reconstruction and transfer of fully corrected multi-planar images, in any plane
- Exam Split\* allows multi-anatomic exams to be read in separate anatomic sections. This allows specialists to review only those images needed for a given requisition
- Direct Connect allows remote Advantage Workstation (AW) access to the Xtream FX console's thin-slice data, eliminating unnecessary network traffic and storage duplication. (AW4.3\*\* and later)
- Xtream Injector is a powerful integrated injection option, which begins the IV contrast injection process in synchronization with "Start Scan" on Optima CT540 to simplify the enhancement exam workflow. The enhanced Xtream Injector also supports injector parameters being entered on CT console.
- SmartPrep with Auto Trigger allows intermittent monitoring of IV contrast enhancement in an area of interest.
- Default Patient Positioning (DPP) provides workflow improvement by preset positioning (Default Patient Positioning) on new gantry display.
- Real-time Scout allows image to be displayed simultaneously as the acquisition. With the
  real-time scout image, you can stop scout acquisition once the necessary anatomy is
  covered.

Compact system design: The minimum installation requirement without short footprint mode is 20.0m2. Other features include:

- 2 19" monitors, standard, for comfort in in imaging review.
- Up to 1700 mm scannable range for full body trauma scans.
- In room start button mounted on gantry with countdown display, facilitates single remote gantry tilt from the operator console to enhance workflow.
- Built-in breathing lights with a countdown timer, so the patient does not have to guess how much longer to hold their breath.
- 0.35mm isotropic microVoxel\* image resolution reconstruction algorithms
- Hyperplane\* and Crossbeam\*, providing virtually artifact-free images and optimized slice profile at any pitch, by solving the technical challenges of cone beam and high pitch helical scanning

Description

- Includes reference protocols and the ability to customize your own for a total of 6840 protocols
- 250,000 uncompressed 512 image files storage capacity, and 9600 scan seconds of scan data storage capacity
- Chest Kernel can let the user perform only one reconstruction (instead of twice-using lung kernel and standard kernel separately) for chest exams, which may speed up the image review process. Filter sharpness is automatically adapted to the lung or mediastinum when the user adjusts window width or window level.
- IQE enables faster anatomical coverage using faster pitch helical scanning at similar artifact index levels compared to slower helical scanning without IQE. This coverage speed is equivalent to that of wider detectors (50 slice equivalent) at same table speed. #

# Helical Artifact Index is defined as: ((SD value at ROI1)2 - (SD value at ROI2)2)1/2. Two helical data sets were acquired to compute a Helical Artifact Index. Both helical acquisitions were acquired using kV:120, Gantry Rotation: 0.8S, Slice Thickness: 1.25mm, SFOV: Large, DFOV: 32cm, Start/End: S200-I370 and reconstructed using 512 matrix. One data set was acquired at 1.75:1 pitch with table speed of 37.5mm per rotation with IQ Enhance ON at 260mA and the other using 0.562:1 pitch with table speed of 11.25mm per rotation with IQ Enhance OFF at 160mA.

Dose Management Leadership

OptiDose management features: new bowtie filters optimized for adult and pediatric body exams, full 3D dose modulation, color coding for kids, tracking collimator hardware and software for x-ray beam trackign to name a few of GE's dose optimization features, all based on the ALARA principle.

- Dynamic Z-axis tracking provides automatic and continuous correction of the x-ray beam shape to block unused x-ray at the beginning and end of a helical scn to reduce unnecessary patient radiation
- 3D Dose modulation Before the scan, clinicians must select the desired Noise Index as
  well as the minimum and maximum mA setting. The system automatically accounts for
  the changing dimensions of the patient's anatomy, enabling patient to patient
  reproducibility in this aspect of image quality and real-time x-y-z during each scan.
- Volumetric Image Space Reconstruction (VISR) are 3D filters that reduce image noise (standard deviation) without compromising
  - spatial resolution to provide clear visualization in neuro and cardiac imaging, to deliver diagnostic image quality with potentially lower mA.}
- Tracking collimator hardware and software for x-ray beam tracking to minimize patient dose
- Filtration of the x-ray beam is optimized independently for boady and head applications
- Dose Display, DLP (dose length product), and dose efficiency display during scan

Description

presription provides the patient's dose information to the operator prior to scanning

- Dose Reporting provides access to the CTDIvol and DLP with the patient record prior and post exam. DICOM Structured Dose Report is also supported
- Dose Check provides the user with tools to help them manage CT dose in clinical practice and is based on the standard XR-25-2010 published by The Association of Electrical and Medical Imaging Equipment Manufacturers (NEMA). Dose Check provides the following:
- Checking against a Notification Value if the estimated dose for the scan is above your site established value
- Checking against an Alert Value where the user needs specific authority to continue the scan at the current estimated dose without changing the scan parameters if the estimated dose exceeds the alert value
- The ability to define Alert Values for Adult and Pediatric with age threshold
- Audit logging and review capabilities
- ProtocolChange Control capabilities

} In clinical practice, the use of VISR may enable reduction in 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. When ASiR is installed, VISR will be disabled.

\$mA modulation is designed to optimize the dose for the user prescribed noise index. Its effect on dose depends on the patient body habitus, and prescribed noise setting.

# Gantry:

- Advanced slip ring design continuously rotates generator, tube, HiLight matrix detector and data acquisition system around the patient.
- Performix Ultra tube
- Matrix II detector and digital data acquisition system
- 70cm Aperture with scan field of 50cm
- Short geometry design: 94.9cm tube-to-detector distance
- Rotational speeds: 360 degrees in 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 2.0 seconds
- Tilt: +/- 30 degrees in half-degree increments with a speed of 1 degree/second
- Remote tilt from operator's console
- Integrated breathing lights & countdown timer
- Integrated start scan button with countdown timer to indicate when x-ray will turn on
- Scan plane toward front of gantry for improved positioning access
- Laser Alianment Lights: Define both internal and external scan planes to E 1 mm accuracy

Description

#### Table:

- Controls on gantry for table up/down and cradle in/out, and tilt. Foot pedals on both sides of table for fast elevation. Cradle position controlled from OC for prescribed scans
- 1700 mm scannable range for full body trauma scans
- Table load capacity of 227 kg (500 lb) with +/- 0.25 mm of position repeatability
- Vertical range: 490 mm to 991 mm
- Vertical scannable range:791 mm to 991 mm
- Horizontal range: up to 1700 mm
- Horizontal scannable range: up to 1730 mm (axial) and 1630 mm(helical) & 1600 mm(Scout)
- Horizontal speed: up to 125mm/sec (150mm/sec at ISD)
- Table automatically re-centers on scan plane with changes in vertical position under alignment light turned on condition

#### Detector and DAS:

The Volara 30-bit Digital data Acquisition System (DAS), with 1968 views per rotation, delivers high processing power for high-resolution images and low-dose performance. It reduces noise up to 33% for outstanding image quality, even in difficult areas such as the shoulders and hips, and in large patients.

#### Other features include:

- 21,888 cells over 24 rows, allowing the following type of acquisition-collimation:
- 10mm (0.625 mm rows) for high resolution mode
- 20mm (1.25 mm rows) high speed mode
- Collimated slice thickness available: 0.625, 1.25, 2.5, 3.75, 5, 7.5, 10
- Generating slices at fine intervals enables image reconstruction that exceed 32 slices (images) per gantry rotation
- The high image quality provided by the Optima CT540 is enabled by the HiLight matrix detector, with 98% absorption efficiency

#### X-ray Tube:

Performix Ultra tube unit offers an optimized design for exams requiring a large number of scans without tube cooling delays.

- Anode Heat Storage Capacity: 6.3 MHU
- Heat Dissipation: Anode (max) 840 KHU/min
- ASiR\*\*\* allows you to achieve the same image noise (SD) at a lower mA with less tube heat output, which enables the tube for longer duration helical scan.

Description

# **Dual Focal Spots**

#### Small Focal Spot:

- 0.8 x 0.7 nominal value (IEC 336/2005)
- 0.7 x 0.6 nominal value (IEC 60 336/93)

### Large Focal Spot:

- 1.1 x 1.0 nominal value (IEC 336/2005)
- 0.9 x 0.9 nominal value (IEC 60 336/93)

# High Voltage Generator

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

- 53.2 kW output power
- kVp: 80, 100, 120, 140
- mA: 10 to 440 mA, 5 mA increments to better adapt to the patient.

# Xtream Operator Console

The console and table are designed to enable the efficient use of space while enhancing clinical workflow and technologist comfort. Attributes include:

- Fully adjustable monitor arms
- Adjustable height for improved patient visibility
- Flexible location of OC hardware
- Sitting or standing position
- Xtream FX operator console
- 6fps is standard, 16fps is optional
- Split tabletop allows unrestricted patient viewing while supporting 2xLCD 19 inch color monitors
- Two 19 inch color LCD monitors support scan and recon, as well as image display, processing, analysis, and management.
- Each work surface can be adjusted to accommodate operator preferences and a wide variety of site requirements.
- Xtream(TM) FX, built on the LINUX operating system and delivering fast reconstruction of 6
  ips with full fidelity images and fast network transfer rates of up to 16 ips.
- Size: 1300mm Wide x 620mm Deep x 683-912mm adjustable height 44 kg in weight

#### Image Networking Exams

Images can be selected and moved between the Optima CT540 CT Scanner and any imaging system supporting the DICOM 3.0 protocol for network send, receive and pull/query.

Description

#### Other networking attributes include:

- Standard Auto-configuring Ethernet
- Direct Network Connection
- Supports 10/100/1000 BaseT Ethernet
- Supported Protocols
  - DICOM 3.0 Network
  - Advantage Net
  - InSite Point-to-Point
  - TCP/IP (for System Administration)

#### **DICOM Conformance Standards:**

- DICOM 3.0 Storage Service Class
- Service Class User (SCU) for image send
- Service Class Provider (SCP) for receive
- DICOM 3.0 Query/Retrieve Service Class
- DICOM 3.0 MOD Media Service Class
- DICOM 3.0 Storage Commitment Class Push
- DICOM 3.0 Modality Worklist (incl:Performed Procedure Step through ConnectPro option)
- DICOM 3.0 Print

#### Applications and Clinical Performance

• When selecting a CT scanner to meet your meet your needs the primary concern should be the clinical performance of the system, not specifications. Specifications alone don't tell you how the scanner will perform. To understand true clinical performance of the system, you have to consider how well the scanner delivers three things - image quality, coverage, exam speed - and whether it can deliver all three at once. The Optima CT540 CT Scanner offers a balanced design enabling it to deliver clinical performance.

# Image Quality

- Axial Low Contrast Detectability (LCD) Statistical LCD: on 8 Inch CATPHAN Phantom
  - 5 mm @ 0.3% at 13.3 mGy
  - 3 mm @ 0.3% at 37.2 mGy
- Helical Noise -on an AAPM Water Phantom or GE Quality Assurance Phantom = < 0.32% nominal +/- 0.03% at 28.5 mGy
- High Contrast Spatial Resolution on GE Performance Phantom
  - Standard Algorithm 8.5 lp/cm @ 0% MTF
  - Hi-res Algorithm 15.4 lp/cm @ 0% MTF

#### **Pitches**

Description

- 0.562:1, 0.938:1, 1.375:1, and 1.75:1 Helical Pitches for 16 Slice Modes
- 0.625:1, 0.875:1, 1.35:1, and 1.675:1 Helical Pitches for 8 Slice Modes

Exam Speed: The Optima CT540 CT Scanner delivers flexible and fast scan speeds by combining 16 slice acquisition, 1.75:1 helical pitch and 0.5 rotation. Because of these very quick exam speeds, scan speed is no longer what determines the systems throughput of a multi-slice scanner. Other tasks are equally important to determine the performance of the CT scanner:

- Scan Setup
- Image Reconstruction
- Reformat and 3D Processing
- Networking, Archiving, Filming

The Optima CT540 with Xtream FX suite workflow management is designed to deliver outstanding workflow in each of these tasks:

 One-touch protocol workflow, delivering tailored visualization mode for exams review, directly built into the protocols, and available in "1 click" on the Operator Console or the Post-processing workstation.

# Xtream Display

Xtream Display is a multi-purpose LCD display and can show basic patient information on the Gantry monitor. The user can confirm patient information in the scan room potentially improving workflow and reducing the opportunity for error. Xtream Display provides workflow improvement with preset positioning (One Step patient positioning) on gantry display. Xtream Display has a Movie function to assist the user in explaining the CT examination to patients. Other features include:

- Minimum 3-click scan start workflow is a pre-programmable protocol setting that enables the start of scan in as few as 3 clicks.
- Up to 6fps reconstruction speed (16fps option)
- Direct MPR with Auto-Batch feature, affording automatic real-time direct reconstruction and transfer of fully corrected multi-planar images, in any plane.
- Up to 10 fps transfer speed of images, real-time during acquisition, to up to 4 different destinations.
- DVD interchange capability, for archiving of up to 7168 uncompressed 512 images.
- Data Export capability, ensuring the relevant images and reports can be visualized by the referrals in PC friendly format(MPEG, AVI..)
- Auto Transfer by Series to distribute images where you need them when you need them.
- Exam Split\* allows multi-anatomic exams to be read in separate anatomic sections. This allows specialists to review only those images needed for a given requisition
- Grayscale Presentation State saves display presentation of WW, WL, flip, rotate, zoom,

Description

roam, user annotation and measurements for transfer to a remote viewing station using DICOM GSPS object.

- Direct Connect allows remote Advantage Workstation (AW) access to the Xtream FX console's thin-slice data, eliminating unnecessary network traffic and storage duplication.
   (AW4.3\*\* and later)
- Xtream Injector: Xtream Injector is a powerful integrated injection option, which starts the
  Injection process in synchronization with "Start Scan" on CT system to simplify the
  enhancement exam workflow. The enhanced Xtream Xtream Injector supports injector
  parameters to be entered on CT console.
- Graphic Retro: Graphic Retro allows users to prescribe retro recon graphically on appropriate prospective image by mouse. Visual adjustment parameters such as DFOV, AP/RL center improve retro recon productivity.

#### Scan Modes

- Helical scan mode offers continuous 360 degree scanning with table incrementation and no interscan delay. Axial scan mode allows for up to 16 contiguous axial planes to be acquired simultaneously.
- Helical Multi-slice Modes: Helical scanning has been simplified by grouping all critical
  acquisition parameters within helical pitches optimized for image quality and speed
  0.5625:1, 0.9375:1, 1.375:1, 1.75:1 for 16 slice acquisition. These clinically derived helical
  scan modes offer a wide range of selections that carefully balance acquisition speed,
  image thickness, and provide table speeds up to 35 mm per rotation enabling scan speeds
  that are up to 12 times faster than 4 slice helical scanners.
- Prospective Multiple Thickness Reconstruction: For any helical scan modes, the operator can choose to reconstruct images prospectively in any of 7 nominal image thicknesses 0.625, 1.25, 2.5, 3.75, 5, 7.5, and 10 mm. The operator may also prospectively specify additional image sets to be reconstructed. These images can be reconstructed at any of the defined nominal image thicknesses available for a given table speed and scan mode. Direct MPR may also be prospectively specified which quickly enables the move from 2D review to prospective 3D image review of axial, sagittal, coronal and oblique planes automatically.

Axial Scans: Multi-slice axial acquisitions and short interscan delays significantly reduce potential mis-registration between scans by increasing the number of scans in a single breath hold. Reference protocols make the Optima CT540 scanner system fast & efficient.

Axial Multi-slice Modes: The Optima CT540 CT scanner system acquires axial scans in sets of up to 16 contiguous images in one 360 degree rotation. For each rotation of the gantry the system collects 16 rows of scan data. There are five reconstruction modes available for creating images from the multi-slice axial scan scan data.

Qty	Catalog No.	Description
2 " "		

- Example- 8i Mode: Produces 8 Images per Rotation
- Nominal Thickness: 1.25, 2.5 mm
- Example- 16i Mode: Produces 16 Images per Rotation
- Nominal Thickness: 0.625, 1.25 mm

Image Reconstruction Kernels: Soft, Standard, Detail, Bone, Bone Plus, Lung, and Edge and Chest.

InSite Broadband includes: Hardware essential for systems to be connected to high speed internet.

Warranty. The published Company warranty in effect on the date of shipment shall apply. The Company reserves the right to make changes. All specifications are subject to change.

Regulatory compliance: this product is designed to comply with applicable standards under the radiation control for health and safety act of 1968. This product is designed to comply with applicable standards under the Radiation Control for Health and Safety Act of 1968. Laser alignment devices contained within this product are appropriately labeled according to the requirements of the Center for Devices and Radiological Health. This product is a CE compliant device which satisfies regulations regarding Electro-Magnetic Compatibility (EMC) and Electro-Magnetic Interference (EMI), pursuant to IEC-60101-1 and all applicable collateral and particular standards.

### 1 B7590EN

English Keyboard Kit

#### 1 B7580JY

Standard cable set for RT product

#### 1 B78552CA

The Freedom workspace is an ergonomic working environment specifically designed for use with the GE Healthcare imaging systems. The sleek table design enables the efficient use of space while enhancing clinical workflow and technologist comfort.

The Freedom workspace provides a minimalist footprint to improve patient visibility and giving the user easier access to patients in the imaging suite.

It offers sit/stand and horizontal/vertical monitor flexibility. It can also help reduce noise and heat with remote location options of the console. The non-adjustable Freedom workspace version is 1300mm long x 895mm wide x 850mm height and weighs 55.8kg.

#### 1 B70752RT

ASiR(TM)(Adaptive Statistical Iterative Reconstruction) dose reduction technology\*

- ASiR reconstruction technology may enable reduction in pixel noise standard deviation (a
  measurement of image noise). The ASiR reconstruction algorithm may allow for reduced
  mA in the acquisition of images, thereby reducing the dose required\*.
- A reconstruction technology that may enable improvement in low contrast detectability\*.

Qty	Catalog No.	Description
		* In clinical practice, the use of ASiR may reduce CT patient dose depending on the clinical task, patient size, anatomical location and clinical practice. A consultation with a radiologist and physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task.
1	B77292CA	Service cabinet for system accessories storage
1	E4502KY	2 Phase 10 KVA Partial UPS for CT Lightspeed and Lightspeed PRO
		The 2 Phase 10 KVA Partial System UPS kit has been specifically designed to coordinate with the BrightSpeed, LightSpeed and LightSpeed PRO 16 families of CT scanners. In the event of a power outage, a partial system UPS provides continuous back-up power to the scanner host and control computers, thus assuring no loss of usable scan data. In addition, critical circuits in the gantry and table remain powered which facilitate the safe removal of the patient from the scanner. If power is restored within the battery hold-up time, the operator can continue scanner operations without the need to reboot the system. When longer power outages are anticipated, the UPS provides time for the operator to complete an orderly shutdown of the system software.
		FEATURES/BENEFITS
		<ul> <li>True double-conversion, online technology provides reliable operation and uninterrupted glitch free power.</li> </ul>
		<ul> <li>Automatic voltage and frequency selection eases startup, i.e., 50 or 60 Hz compatible</li> <li>Integral Static Bypass switch means zero transfer time</li> <li>Integral Manual Bypass switch facilitates continued scanner operation while UPS is being serviced</li> </ul>
		<ul> <li>Single input connect utilized for both UPS input and static switch</li> </ul>
		<ul> <li>Maintains system electronics and allows critical scanner operations to continue for 10 minutes (typical) after loss of power</li> </ul>
		<ul> <li>Advanced Battery Management (ABM) software monitors / indicates battery health and doubles battery service life</li> </ul>

# SPECIFICATIONS

- Dimensions (H x W x D): 32.7" x 12" x 32"
- Weight: 350 lbs.
- Rating: 10 kVA
- Input Voltage Range: 85-144V / ph; 2 Phase
- Output Frequency: 50 or 60 Hz, auto-sensing

# COMPATIBILITY

Qty	Catalog No.	Description	
		<ul> <li>HiSpeed Advantage-RP, CT/I, Lightspeed QXi, LightSpeed 16, BrightSpeed Systems, LightSpeed Pro 16 and RT Syst</li> </ul>	
		NOTES:	
		<ul> <li>Customer is responsible for rigging and arranging for ins</li> <li>ITEM IS NON-RETURNABLE AND NON-REFUNDABLE</li> </ul>	stallation with a certified electrician
1	E8016AZ	Slicker - CT HD750 and VCT w/GT 1700 Table (2 Piece Set)	
		FEATURES/BENEFITS	
		<ul> <li>Two-piece, sealed slicker cushion set has comfort pad and extender cover</li> </ul>	s enclosed inside the slicker cover
		<ul> <li>Durable, clear PVC plastic cover facilitates faster, mor fluids</li> </ul>	re thorough cleanup of blood and
		<ul> <li>Increase system uptime by protecting table from spills of</li> <li>Thermo-sealed seams and flaps prevent contaminate by</li> </ul>	
		COMPATIBILITY	
		• VCT with GT 1700 Table, CT HD750	
1	E8016BA	Footswitch Slicker for CT HD750 and VCT Systems	
		The footswitch slicker for CT VCT 2000 and 1700 systems is m that protects the footswitch and facilitates faster, more thorou caused by blood and other body fluids. Cover is held securely	ugh cleanup of contamination
		Quote Summary:	
		Optima 540 Customer Loyalty Discount	(\$30,000.00)
		Total Quote Net Selling Price  (Quoted prices do not reflect state and local taxes if applicable Trade In allowance, if applicable.)	<b>\$458,040.00</b> e. Total Net Selling Price Includes

Quotation Number: PR2-C3409 V 8

# Options

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

Qty	Catalog No.	Description	Ext Sell Price
1	E4502AB	<b>GE Optima CT 540 - 50 slice speed w ASIR</b> 90 Amp Main Disconnect Panel for CT	\$6,246.65
		This 90 amp main disconnect panel for GEHC CT systems provides emergency shut down, undervoltage protection, overcurrent protection, local disconnect for the imaging system. It also reduces installation time and cost by providing a single-point power connection eliminating the need to mount and wire a number of individual components. The standardized design and testing assures high product quality and system reliability, and it is UL and cUL listed for compliance with National Electric Code. Panel can be surface or semi-flush mounted and includes one remote emergency off push button. Customer is responsible for rigging and arranging for installation by a licensed electrician. ITEM IS NON-RETURNABLE and NON NON-REFUNDABLE Warranty Code: Y	
		(Quoted prices do not reflect state and local taxes if applicable. Total Net Selling Trade In allowance, if applicable.)	Price Includes



One Medrad Drive Indianola, PA 15051-0780

Phone: (412) 767-2400 Fax: (412) 767-4120 www.medrad.com Quotation

Quote No: 20159208

Page: 1 of 6 Date: 08/19/2013

Currency: USD

Customer No: 1004118D

Quote To:

COLUMBUS REGIONAL HEALTHCARE SYSTE 500 JEFFERSON ST WHITEVILLE NC 28472-3696

Validity Period: 08/19/2013 until 10/14/2013

We deliver according to the following terms and conditions:

Terms of payment: Net 30 from date of invoice

Terms of delivery: Prepaid & Added SP/Shipper Pays Freight

Attn: Jason Beck

Rashel Buffat Inside Sales Representative 800-633-7231 ext 4695 rashel.buffat@bayer.com

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

**REFERENCE: OPTIMA 540** 

Item	Description	Qty	Unit Price	Extended Price
1	3032458 STELLANT DUAL INJECT	1EA OR WITH O	49,500.00 CS AND CERTEGRA WORKSTATION	49,500.00
	% Discount			20,295.00-
	Discount (Value)			8,637.75-
	Net Value for Item  **GPO MEMBER DISCOU  **SPECIAL DISCOUNT P			20,567.25
2	CWKS STARTER PKG Informatics Starter Packag	1EA	16,500.00	16,500.00
	% Discount	,•		5,775.00-
	% Discount			2,475.00-
	Net Value for Item			8,250.00

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

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.

Please reference the quote number on your PO and fax to 412-767-4120 for domestic orders or 412-767-1312 for international orders



One Medrad Drive Indianola, PA 15051-0780 Phone: (412) 767-2400 Fax: (412) 767-4120 www.medrad.com Quote No: 20159208

**Page:** 2 of 6 **Date:** 08/19/2013

Quote To:

COLUMBUS REGIONAL HEALTHCARE SYSTE 500 JEFFERSON ST WHITEVILLE NC 28472-3696

Item	Description	Qty	Unit Price	Extended Price
3	MIS PCS 105 PACS Outbound Interface	1EA	7,900.00	7,900.00
	% Discount			2,765.00-
	% Discount			1,185.00-
	Net Value for Item			3,950.00
4	MIS PCS 303	1EA	18,995.00 M*MODAL reporting system	18,995.00
	Discount (Value)	JOHN JOOK WILL	TW WOD' IL Topoliting System	6,648.25-
	Discount (Value)			2,848.75-
	Net Value for Item			9,498.00
5	CWKS P3TA P3T Abdomen 2.0	1EA	7,500.00	7,500.00
	Discount (Value)			3,075.00-
	Discount (Value)			2,175.00-
	Net Value for Item			2,250.00
6	CWKS P3TPA P3T PA 2.0	1EA	7,500.00	7,500.00
	Discount (Value)			3,075.00-
	Discount (Value)			2,175.00-
	Net Value for Item			2,250.00
7	INS SCT CS INF INSTALLATION - STELLA	1EA ANT W/CS-I	3,650.00 NFORMATICS	3,650.00
8	3030429 CERTEGRA INTEGRATIO	1EA ON SERVIC	2,500.00 E	2,500.00
9	3030460 CERTEGRA INTEGRATIO	1EA ON SERVIC	1,300.00 E - 1D	1,300.00

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

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.

Please reference the quote number on your PO and fax to 412-767-4120 for domestic orders or 412-767-1312 for international orders



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COLUMBUS REGIONAL HEALTHCARE SYSTE 500 JEFFERSON ST WHITEVILLE NC 28472-3696

	Sub Total	54,215.25
	Total	54,215.25
NOTE: If using signed quote as a purc	hase order please complete the following inforn	nation:
Print Name:		
Signature:		
Title:		
PO #:		
Phone #:		

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

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.



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Quote No: 20159208

Page: 4 of 6 Date: 08/19/2013

#### MEDRAD PRODUCT TERMS AND CONDITIONS

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

\*The following terms and conditions shall not apply to any license of the Radimetrics product, which is governed by 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 MEDRAD's Home Office.
- 2. Acceptance. MEDRAD'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. MEDRAD 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 MEDRAD IMMEDIATELY.
- 3. Pricing. Prices are based on costs and conditions existing on the date of this Quote and may be changed by MEDRAD 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 MEDRAD 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 MEDRAD requires a thirty percent (30%)\_pre-payment for all capital equipment orders, unless otherwise agreed to by MEDRAD's Home Office. MEDRAD's Home Office must approve any payment terms other than net thirty (30) days.
- 4. Shipping. All shipping dates are tentative. MEDRAD will make every reasonable effort to meet shipping dates referenced in this Quote. However, MEDRAD 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 MEDRAD 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 MEDRAD 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 MEDRAD's installation.

If this Quote includes a Certo wireless network it is your responsibility to ensure the approval of the Information Technology Department to allow the operation of the wireless network at your site.

If this Quote includes a 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.



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www.medrad.com

Quote No: 20159208

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6. License. If the Products include embedded software, or if you are purchasing software, MEDRAD grants to you a non-exclusive license to use such software provided by MEDRAD, 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 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 MEDRAD. The software copyright is owned by MEDRAD and is protected by United States copyright laws and international treaty provisions. MEDRAD 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 MEDRAD.

7. Warranty. MEDRAD warrants that all new MEDRAD 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.

MEDRAD warrants that all refurbished MEDRAD 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 an XDS unit which is sold as an upgrade to your existing Stellant unit, the warranty on the XDS will extend for the longer of: a) the warranty (including any extended warranty) on your existing Stellant unit or b) ninety (90) days from the date of installation, but not to exceed six months from the date of shipment.

If this Quote includes a Monitor, peripheral accessories on the Monitor such as pulse oximeter sensors, extension cables, power cables, fiber optic cables, ECG leads, capnography accessories (excluding patient connections), blood pressure cuffs, batteries, and extension tubing are warranted for a period of 90 days from the date of installation, but not to exceed six months from the date of shipment.

If this Quote includes disposable products or angiographic catheters, MEDRAD's warranty shall be limited to repair or replacement of any defective disposable product or angiographic catheter upon receipt of the defective product and a MEDRAD 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 MEDRAD, 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 holidays.

Your actions may invalidate this warranty. If MEDRAD determines that an equipment or disposable problem is due to any of the following, you agree to pay MEDRAD for all labor, travel, material handling and shipping at MEDRAD's, or MEDRAD'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 unauthorized modification or repair shall render this warranty void and relieve MEDRAD from any further obligation. MEDRAD must review and authorize all modifications and repairs. This service may be obtained by contacting the MEDRAD Service Department.
- d) Malfunction or damage due to the use of non-MEDRAD or non-approved accessories. The use of accessories in connection with the equipment may jeopardize functionality, reliability or operator and patient safety. Therefore any use of non-MEDRAD or non-approved accessories (such as non-MEDRAD disposables or in the case of any PET/CT product, the use of vials or vial shields that are not approved by MEDRAD) shall render this



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warranty void and relieve MEDRAD from any futher 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 MEDRAD's specific requirements for level and plumb and/or loading as specified in the MEDRAD 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 MEDRAD's warranty. MEDRAD does not in any way warrant such structure.
- 8. Warranty Exclusions. EXCEPT AS PROVIDED IN THE ABOVE WARRANTY SECTION, MEDRAD 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 MEDRAD IS AWARE OF YOUR INTENDED USE OF THE PRODUCT), AND ALL SUCH WARRANTIES ARE EXPRESSLY EXCLUDED. IN NO EVENT SHALL MEDRAD BE LIABLE FOR ANY LOST PROFITS OR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OR OPERATION OF MEDRAD'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, MEDRAD 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 MEDRAD provides service to the Products or software. MEDRAD 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 MEDRAD's negligence or breach of any other duty shall be, at MEDRAD'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. MEDRAD 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. MEDRAD 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 MEDRAD's reasonable control.
- 12. Compliance With Laws/Export. In addition to any rights and remedies specifically identified here in this Quote, MEDRAD shall have all rights and remedies conferred by law. MEDRAD 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 MEDRAD. 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 reexport requirements, laws and regulations of the United States of America and any other applicable export and reexport laws and regulations.
- 13. HIPAA. MEDRAD represents that it is not a Business Associate as defined in the Health Insurance Portability and Accountability Act ("HIPAA"). The functions MEDRAD 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, MEDRAD agrees to keep all such information confidential.



Jason Beck Columbus Regional Healthcare System

1 July 2013

RE: GE Optima CT540 – CT 2 Room Renovation:

Jason,

Revels Contracting Services, Inc. appreciates the opportunity to bid this project. This price was based on a GE preliminary drawing for an Optima CT540, scheme no. 13CRD265, dated 6/26/13, standard reference drawings and a site visit. It includes the items specified in the attached scope of work. This price is **strictly budgetary**, pending final drawings and/or agreement on scope of work.

Material and Labor:

All For The Sum Of = \$172,635.00

One hundred seventy two thousand, six hundred thirty five dollars.

If you have any questions or we can be of further assistance, please do not hesitate to contact us at your earliest convenience.

Sincerely,	Accepted By:	_
	Title:	
Jim Revels President	Date:	_
Revels Contracting Services, Inc.	P.O. #	