



NC DEPARTMENT OF
**HEALTH AND
HUMAN SERVICES**

ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK PAYNE • Director, Division of Health Service Regulation

VIA EMAIL ONLY

September 14, 2022

Lisa L. Griffin
llgriffin@novanthealth.org

Exempt from Review – Replacement Equipment

Record #: 4025
Date of Request: August 31, 2022
Facility Name: Novant Health Presbyterian Medical Center
FID #: 943501
Business Name: Novant Health, Inc.
Business #: 1341
Project Description: Replace existing MRI scanner located in Charlotte Orthopedic Hospital's radiology department
County: Mecklenburg

Dear Ms. Griffin:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that the above referenced project is exempt from certificate of need review in accordance with G.S. 131E-184(f). Therefore, you may proceed to acquire without a certificate of need the GE Hero Fixed MRI scanner to replace the Hitachi Oasis Fixed MRI scanner (#M159). This determination is based on your representations that the existing unit will be sold or otherwise disposed of and will not be used again in the State without first obtaining a certificate of need if one is required.

It should be noted that the Agency's position is based solely on the facts represented by you and that any change in facts as represented would require further consideration by this office and a separate determination. If you have any questions concerning this matter, please feel free to contact this office.

Sincerely,

Julie M. Faenza
Project Analyst

Micheala Mitchell
Chief

cc: Acute and Home Care Licensure and Certification Section, DHSR
Construction Section, DHSR

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF HEALTH SERVICE REGULATION

HEALTHCARE PLANNING AND CERTIFICATE OF NEED SECTION

LOCATION: 809 Ruggles Drive, Edgerton Building, Raleigh, NC 27603
MAILING ADDRESS: 809 Ruggles Drive, 2704 Mail Service Center, Raleigh, NC 27699-2704
<https://info.ncdhhs.gov/dhsr/> • TEL: 919-855-3873

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

August 31, 2022



Via Email

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

2085 Frontis Plaza Boulevard
Winston-Salem, NC 27103

Re: Novant Health Presbyterian Medical Center (NHPMC)
Charlotte Orthopedic Hospital Campus (FID 953416)
Replacement of Existing MRI Scanner
Charlotte, NC (Mecklenburg County)

Dear Ms. Faenza:

Pursuant to N.C. Gen. Stat. § 131E-184(f), this letter serves as prior written notice that Novant Health Charlotte Orthopedic Hospital (COH) intends to replace an existing MRI scanner currently located in the Radiology Department of the Charlotte Orthopedic Hospital (“COH”). COH is licensed under NHPMC’s Hospital License and is located adjacent to NHPMC’s main campus. COH’s project meets the requirements set forth in N.C. Gen. Stat. 131E-184(f) for “replacement equipment” that exceeds two million (\$2,000,000) threshold in the following ways:

Main Campus

NHPMC is located at 200 Hawthorne Lane, Charlotte, North Carolina. COH is located at 1901 Randolph Road, Charlotte, North Carolina. See **Attachment A** which indicates both NHPMC (outlined in purple) and COH (outlined in red) hospitals. COH is located within 250 yards of NHPMC and is connected by an enclosed walkway that goes over Caswell Road. The main hospital building is the location at which NHPMC exercises financial and administrative control over the entire facility and the administrative suite is located on the first floor of NHPMC.

Previous Certificate of Need

The existing fixed MRI (original CON Project ID F-005575-97) was last replaced in 2013 and this is the unit in need of replacement. See **Attachment B**, which denotes the existing MRI scanner in the excerpt of the 2022 LRA.

Replacement Equipment

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

- (1) COH will replace the existing equipment with the proposed equipment that is functionally similar and will be used for the same diagnostic purposes, although it possesses expanded capabilities due to technological improvements.
- (2) The proposed equipment will not be used to provide a new health service.
- (3) The acquisition of the proposed equipment will not result in more than a 10% increase in patient charges or per procedure operating expenses within the first twelve months after the replacement equipment is acquired.

The replacement involves the existing MRI scanner which was acquired in 2013 and is in need of an upgrade and would increase capacity in the Radiology Department at COH. **Attachment C** contains the Equipment Comparison Form.

See **Attachment D** for the Equipment Quote for the new MRI Scanner. As part of the equipment cost, the vendor will provide onsite clinical training for the equipment. Also, the existing equipment will be traded in and removed by GE as indicated on page 18 of the equipment quote (pg 23 of the overall PDF). The total capital cost for the proposed replacement equipment project is estimated to be \$2,537,009. See **Attachment E** – Project Capital Cost Form.

In support of our request, please find attached:

- Attachment A** – NHPMC and COH Campus Map
- Attachment B** – NHPMC 2022 LRA Excerpt
- Attachment C** – Equipment Comparison Form
- Attachment D** – Equipment Quote
- Attachment E** – Projected Capital Costs Form

COH's acquisition of the replacement fixed MRI scanner does not require a certificate of need because none of the definitions of "new institutional health services" set forth in N.C.G.S. Section 131E-176(16) apply to the proposed project. As outlined above, the total cost for the project is \$2,537,009. The proposed capital cost includes equipment, as well as studies, surveys, designs, plans, working drawings, specifications, construction installation and other activities essential to making the equipment operational.

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

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

Sincerely,

Lisa Griffin

Lisa Griffin
Manager, Strategic Planning

Enclosures

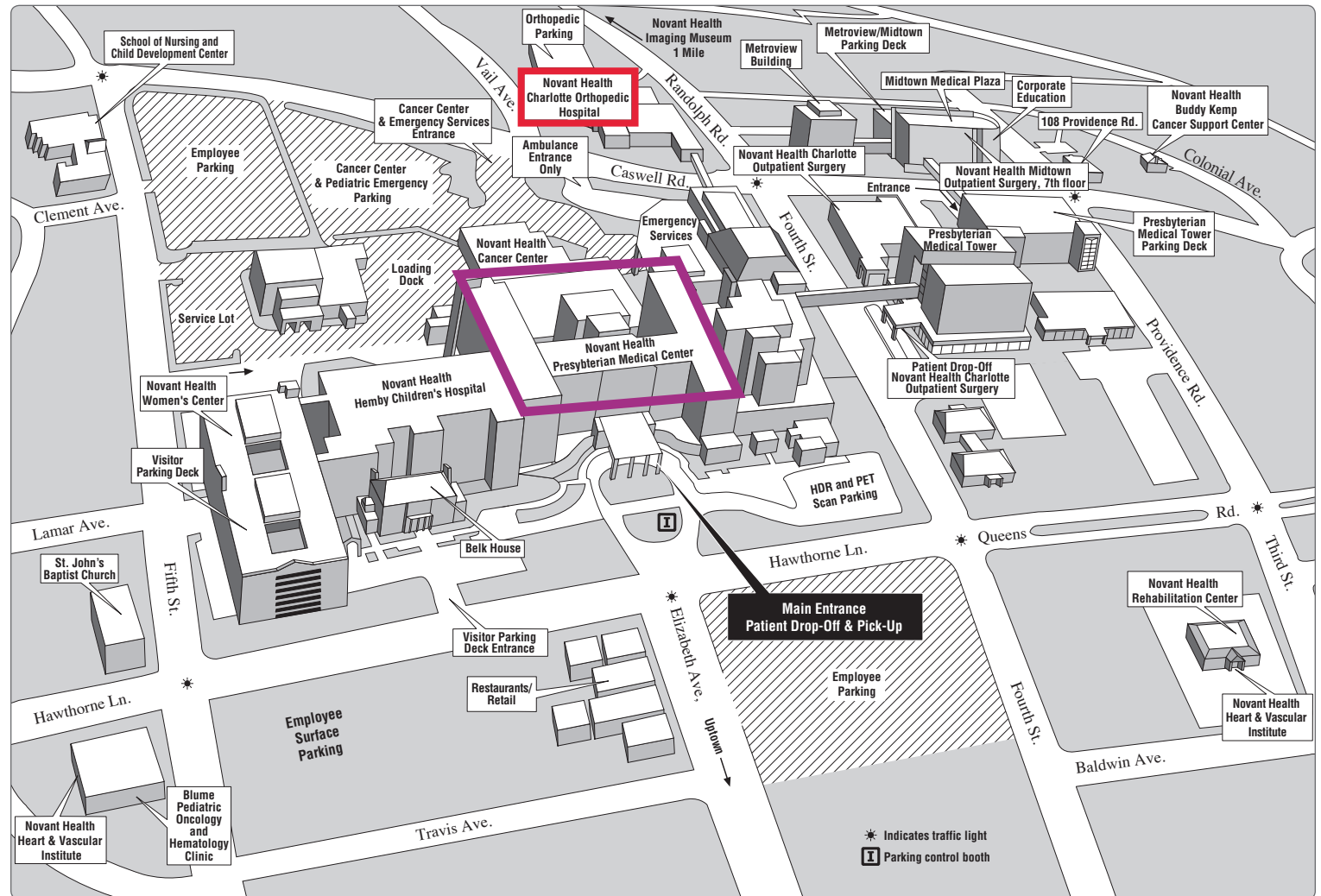


Attachment A

Campus map

Presbyterian Medical Center

For more information about Novant Health Presbyterian Medical Center, call 704-384-4000 or visit our website at NovantHealth.org.



Attachment B

2022 Renewal Application for Hospital:
Novant Health Presbyterian Medical Center

License No: **H0010**
 Facility ID: **943501**

All responses should pertain to October 1, 2020 through September 30, 2021.

Instructions for Hospitals with multiple campuses: For MRI Services, (Sections 10b-10e, pp 17-18), do not provide cumulative/combined data for all campuses. Provide data for individual campuses only.

b. MRI Procedures

Indicate the number of procedures performed on MRI scanners (units) operated during the 12-month reporting period at your facility. For hospitals that use equipment at multiple sites/campuses, please copy the MRI pages and provide separate data for each site/campus. **Campus – if multiple sites:** COH only

| Procedures | Inpatient Procedures* | | | Outpatient Procedures* | | | TOTAL Procedures |
|--------------------------------------|---------------------------|------------------------------|-----------------|---------------------------|------------------------------|------------------|------------------|
| | With Contrast or Sedation | Without Contrast or Sedation | TOTAL Inpatient | With Contrast or Sedation | Without Contrast or Sedation | TOTAL Outpatient | |
| Fixed | 22 | 26 | 48 | 1109 | 1995 | 3104 | 3152 |
| Mobile (performed only at this site) | Ø | | | | | | Ø |
| TOTAL** | 22 | 26 | 48 | 1109 | 1995 | 3104 | 3152 |

* An MRI procedure is defined as a single discrete MRI study of one patient (single CPT-coded procedure). An MRI study means one or more scans relative to a single diagnosis or symptom.

** Totals must be greater than or equal to the totals in the MRI Patient Origin Table on page 30 of this application.

Note: Healthcare Planning and Certificate of Need may request CPT codes for MRI procedures if further clarification is needed.

c. Fixed MRI Scanners

Indicate the number of MRI scanners (units) operated during the 12-month reporting period at your facility. For hospitals that operate medical equipment at multiple sites/campuses, please copy the MRI pages and provide separate data for each site/campus. **Campus – if multiple sites:** COH only

| Fixed Scanners | Number of Units |
|---|-----------------|
| Number of fixed MRI scanners-closed, including open-bore scanners (do not include any Policy AC-3 scanners) | Ø |
| Number of fixed MRI scanners-open (do not include any Policy AC-3 scanners) | 1 |
| Number of Policy AC-3 MRI scanners used for general clinical purposes | Ø |
| Total Fixed MRI Scanners | 1 |

Number of grandfathered fixed MRI scanners on this campus: Ø

For questions, please contact Healthcare Planning and Certificate of Need at 919-855-3873.

CON Project ID numbers for all other fixed MRI scanners on this campus: F - 005575-97

ATTACHMENT C EQUIPMENT COMPARISON

| <i>NH COH MRI Replacement</i> | EXISTING EQUIPMENT | REPLACEMENT EQUIPMENT |
|--|--------------------------|-----------------------|
| Type (e.g., Cardiac Catheterization, Gamma Knife®, Heart-lung bypass machine, Linear Accelerator, Lithotripter, MRI, PET, Simulator, CT Scanner, Other Major Medical Equipment) | MRI Scanner | MRI Scanner |
| Manufacturer | Hitachi | GE |
| Model number | Oasis | Hero |
| Other method of identifying the equipment (e.g., Room #, Serial Number, VIN #) | M159 | TBD |
| Is the equipment mobile or fixed? | Fixed | Fixed |
| Date of acquisition | 2013 | TBD |
| Was the existing equipment new or used when acquired? / Is the replacement equipment new or used? | New | New |
| Total projected capital cost of the project <Attach a signed Projected Capital Cost form> | NA | \$2,537,009 |
| Total cost of the equipment | NA | \$1,809,967 |
| Location of the equipment <Attach a separate sheet for mobile equipment if necessary> | COH Radiology Dept | COH Radiology Dept |
| Document that the existing equipment is currently in use | See Enclosed LRA Excerpt | NA |
| Will the replacement equipment result in any increase in the average charge per procedure ? | NA | No |
| If so, provide the increase as a percent of the current average charge per procedure | NA | NA |
| Will the replacement equipment result in any increase in the average operating expense per procedure ? | NA | No |
| If so, provide the increase as a percent of the current average operating expense per procedure | NA | NA |
| Type of procedures performed on the existing equipment <Attach a separate sheet if necessary> | MRI procedures | NA |
| Type of procedures the replacement equipment will perform <Attach a separate sheet if necessary> | NA | MRI procedures |

Date of last revision: 5/17/19

Attachment D



August 18, 2022
Quote Number: 2008801914.15
Customer ID: 1-2314EF
Agreement Expiration Date: 09/17/2022

Novant Health Charlotte Orthopedic Hospital
1901 Randolph Rd
Charlotte, NC 28207-1101

This Agreement (as defined below) is by and between the Customer and the GE Healthcare business (“GE Healthcare”), each as identified below for the sale and purchase of the Products and/or Services identified in this Quotation, together with any applicable schedules referred to herein (“Quotation”). “Agreement” is this Quotation and either: (i) the Governing Agreement identified below; or (ii) if no Governing Agreement is identified, the GE Healthcare Terms and Conditions and Warranties that apply to the Products and/or Services identified in this Quotation. In the event of conflict, the Quotation supersedes.

GE Healthcare can withdraw this Quotation at any time before Customer: (i) signs and returns this Quotation or (ii) provides evidence of Quotation acceptance satisfactory to GE Healthcare (“Quotation Acceptance”). On Quotation Acceptance, this Agreement is the complete and final agreement of the parties relating to the Products and/or Services identified in this Quotation. There is no reliance on any terms other than those expressly stated or incorporated by reference in this Agreement and, except as permitted in this Agreement, no attempt to modify will be binding unless agreed to in writing by the parties. Modifications may result in additional fees and cannot be made without GE Healthcare’s prior written consent.

Handwritten or electronic modifications on this Agreement (except an indication of the form of payment, Customer purchase order number and signatures on the signature blocks below) are void.

| | |
|-------------------------------|-------------------------------------|
| Governing Agreement: | Novation Vizient Supply LLC |
| Terms of Delivery | FOB Destination |
| Billing Terms | 80% on Delivery / 20% on Acceptance |
| Payment Terms | 45 Net |
| Total Quote Net Selling Price | \$1,501,847.04 |
| Sales and Use Tax Exemption | No Certificate on File |

IMPORTANT CUSTOMER ACTIONS:

Please select your planned source of funds. Source of funds is assumed to be cash unless you choose another option. Once equipment has been shipped, source of funds changes cannot be allowed.

- Cash
- GE HFS Loan GE HFS Lease
- Other Financing Loan Other Financing Lease Provide Finance Company Name _____

The parties have caused this Agreement to be executed by their authorized representative as of the last signature date below.

Novant Health Charlotte Orthopedic Hospital

Signature: _____

Print Name: _____

Title: _____

Date: _____

Purchase Order Number, if applicable

GE Precision Healthcare LLC, a GE Healthcare business

Signature: Herb Klann_DEL

Title: Sr Sales Manager Imaging

Date: August 18, 2022



August 18, 2022
 Quote Number: 2008801914.15
 Customer ID: 1-2314EF
 Agreement Expiration Date: 09/17/2022

To Accept This Quotation

Please sign and return this quotation together with your Purchase Order to:

Name: Herb Klann_DEL
Email herb.klann@ge.com
Phone: 724-504-8778
Fax:

Name: Scott Ramsey
Email: scott.ramsey@ge.com
Phone: 919-621-1657
Fax: 919-869-1618

Payment Instructions

Please **remit** payment for invoices associated with this quotation to:

GE Precision Healthcare LLC
P.O. Box 96483
Chicago, IL 60693

FEIN: 83-0849145

Novant Health Charlotte Orthopedic Hospital

Addresses:

Bill To: NOVANT HEALTH CHARLOTTE
 ORTHOPEDIC HOSPITAL

NOVANT HEALTH CHARLOTTE, ORTHOPEDIC HOSPITAL 1901
 RANDOLPH RD CHARLOTTE NC, 28207-1101

Ship To: NOVANT HEALTH CHARLOTTE
 ORTHOPEDIC HOSPITAL

ORTHOPEDIC HOSPITAL 1901 RANDOLPH RD NC,28207-1101

To Accept This Quotation

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

Upon submission of a purchase order in response to this quotation, GE Healthcare requests the following to evidence agreement to contract terms: Signature page on quote filled out with signature and P.O. number **** OR**** Verbiage on the purchase order must state one of the following:

(i) Per the terms of Quotation # _____, (ii) Per the terms of GPO # _____; (iii) Per the terms of MPA# _____; or (iv) Per the terms of SAA # _____.

Include applicable quote/agreement number with the reference on the purchase order. In addition, Source of Funds (choice of Cash/Third Party Load or GE HFS Lease Loan or Third Party Lease through _____), must be indicated, which may be done on the Quote Signature Page (for signed quotes), or the Purchase Order (where quotes are not signed) or via a separate written source of funds statement (if provided by GE Healthcare).”

Catalog Item Details

| Line | Qty. | Catalog | |
|------|------|---------|---------------------------------|
| 1 | 1.00 | Y0000LC | Pricing Non-Disclosure Language |

This CONFIDENTIAL offer may not be shared with any third parties, buying evaluation groups or anyone not directly employed by customer. This offer is being extended in relation to a national show-site agreement, research partnership, or other non-standard transaction. If required for publishing, GE will happily provide a list price quote.

| Line | Qty. | Catalog | |
|------|------|---------|---------------------------------------|
| 2 | 1.00 | S7529WS | SIGNA™ HERO 3.0T 65 CHANNEL MR SYSTEM |

The AIR™ IQ Edition of the SIGNA™ Hero 3T 70cm wide-bore magnetic resonance system was designed to enable you to deliver both clinical excellence and operational efficiency while addressing the cost of ownership for 3T wide-bore technology. With SIGNA™ Hero simplify and accelerate the scanning process from set-up to acquisition to post-processing for your technical staff, while providing access to an extensive range of clinical imaging and advanced visualization capability for your clinicians.

In addition, SIGNA™ Hero elevates staff and patient experience with AIR™ Recon DL – standard with SIGNA™ Hero. AIR™ Recon DL is a deep learning-based reconstruction algorithm applied to the raw scan data to enhance SNR and image sharpness. This propriety technique addresses image quality at the foundational level by reducing image noise and ringing artifacts while enabling shorter scan and exam times.

The SIGNA™ Hero system catalog comprises the foundation system electronics and collector kits, the core RF coil suite, and AIR™ Recon DL. This enhanced edition of SIGNA™ Hero also provides special AIR™ IQ Edition packages that extend and enhance clinical capability:

- TDI HNU and PA Coil Suite
- AIR™ Recon DL
- Special AIR™ IQ Edition Applications

TOTAL DIGITAL IMAGING and RF COIL SUITE

This offering of SIGNA™ Hero features the Total Digital Imaging RF-architecture with a 65-channel configuration. The SIGNA™ Hero coil suite is designed to enhance patient comfort and image quality while simplifying workflow, and comprises:

- (1) TDI Posterior Array
- (1) TDI Head-Neck Unit

The TDI Posterior Array is designed to simplify workflow and enhance efficiency for the technologist. The PA coil is embedded in the patient table (sold separately) and can be used in conjunction with the HNU (included) and the Anterior Array (sold separately). Whole-body imaging and parallel imaging in 3 directions are supported. In addition, the system will automatically select the appropriate subset of coil elements based on the prescribed FOV and is invisible to additional surface coils when they are placed directly on top of the surface.

- Elements: 32 with dedicated spine configuration
- S/I coverage: 113 cm
- Automatic coil mode selection
- Acceleration in all three scan planes
- Patient-centric comfort pads

The TDI Head and Neck Unit comprises the baseplate and the anatomically optimized Neuro-vascular and Open-face array adapters. The upper end of the HNU can be elevated to enhance patient comfort and access. The TDI HNU is designed to be used in conjunction with the TDI Posterior Array (included) and the Anterior Array (sold separately).

- HNA Elements: up to 45 when combined with TDI PA and AIR™ MP coils (an option sold separately).
- Length: 53 cm; Width: 35 cm
- Height with Neuro-Vascular Array: 35 cm
- Height with Open Face Adapter: 21 cm

- S/I coverage: up to 32 cm with the NV
- Parallel imaging in all three scan planes

AIR™ RECON DL

Level up your imaging. AIR™ Recon DL is a deep learning-based reconstruction algorithm that utilizes a trained neuro network to remove noise and ringing artifacts from the raw scan data. As a result, AIR™ Recon DL delivers images with enhanced SNR and sharpness while also enabling the reduction in scan time and resulting exam time. AIR™ Recon DL is directly embedded in the reconstruction pipeline to address image quality at the foundation level to produce TrueFidelity images (and therefore is not a traditional filter or a post-processing technique).

- Intelligent pipeline reconstruction produces TrueFidelity images
- Reduces image noise at the foundation level
- Reduced Gibbs and truncation artifacts at the foundation level with intelligent ringing suppression
- Reduces scan time and resulting exam times
- Tailor level based on preference

In addition, the SIGNA™ Hero system comprises several essential elements described and quoted separately. These elements include:

- SIGNA™ Hero Magnet, RF, and Gradient Assembly
- SIGNA™Works AIR™ IQ Edition Software and Clinical Applications Toolkits
- Host PC and Operator Console (GOC)
- Image Reconstruction Computer (ICN)
- eXpress Detachable Patient Table
- Anterior Array Surface Coil

AIR™ IQ EDITION APPLICATIONS

In addition to the NeuroWorks, OrthoWorks, BodyWorks, OncoWorks, CVWorks and PaedWorks toolkits (described separately), this configuration of SIGNA™ Hero further expands and enhances clinical imaging capability with special AIR™ Edition applications:

- AIRx™ Auto Graphic Prescription
- HyperWorks Acceleration
- DiffusionWorks Advanced Diffusion
- DISCO and DISCO Star Body Imaging
- Silent Suite and oZTEo MR Bone Imaging
- CardioMaps and Time Course Cardiac Imaging
- 3D PROMO Prospective Motion Correction
- Cube MDSE vessel wall imaging
- IDEAL IQ liver triglyceride assessment

AIRx™ AUTO GRAPHIC PRESCRIPTION

Change the way you prescribe brain and knee exams. AIR x™ Auto Graphic Prescription uses deep learning algorithms, instead of an atlas-based method, to automatically identify anatomical structures and prescribe slices locations for brain and knee exams. As a result of the deep learning algorithms, AIRx™ automatically adapts slice prescriptions to various patient anatomies and structures to enable consistency and productivity for slice positioning from technologist to technologist, patient to patient and the same patient overtime.

ADVANCED DIFFUSION PACKAGE

Extend diffusion capability. The Diffusion Package delivers techniques that reduce distortion, correct for motion and increase spatial resolution and performance for diffusion and diffusion tensor imaging.

- PROGRES distortion and motion correction for diffusion
- MUSE multi-shot high-resolution diffusion
- FOCUS DWI 2D slice-selective high-resolution diffusion
- MAGiC DWI diffusion-based synthetic multiple b-value imaging

HYPERWORKS ACCELERATION

Advance your acceleration capability. The HyperWorks toolkit comprises a new generation of acceleration tools that employ a variety of optimized approaches to accelerate imaging for a broad range of exams.

- HyperSense 2.0 compressed sensing
- HyperCube tailored RF
- HyperBand simultaneous slice excitation
- HyperMAVRIC SL accelerated spectral imaging

DISCO STAR and DISCO

Go breath-hold optional. DISCO Star enables the option of free-breathing dynamic abdominal imaging for patients with limited breath-hold capability or patients who are unable to follow breathing instructions. DISCO Star uses an in-plane radial acquisition trajectory to provide active motion compensation, without navigators or bellows, to address both set-up time and rescans due to motion artifacts. The offering also includes LAVA Star, which provides the same motion robust, free-breathing scan for single phase (pre-contrast or delayed) imaging.

SILENT SUITE and oZTEo MR BONE IMAGING

Address noise and motion. Silent Suite comprises the 3D SILENZ Zero-TE sequence and Silent PROPELLER. SILENZ 3D uses high bandwidth excitation and reduced gradient switching to deliver sound levels near ambient while Silent PROPELLER uses a modified gradient waveform approach to reduce acoustic levels to less than 11dB above the ambient room noise while retaining the motion insensitivity of PROPELLER. (Refer to the data sheet for contrast-weighting details.)

Extend contrast capability. oZTEo MR Bone imaging utilizes the 3D SILENZ ZTE sequence to complement the conventional soft tissue exam with cortical bone surface information. Automated grayscale inversion provides positive bone contrast. The ZTE sequence can be used for 3D isotropic resolution with inherent motion insensitivity due to the radial acquisition technique. oZTEo can be used with any surface coil that is compatible with SCENIC and includes protocols for common joints such as hip, shoulder, wrist, ankle and knee.

CARDIOMAPS and TIME COURSE CARDIAC IMAGING

Extend assessment capability. CardioMaps support detection of cardiac pathologies by quantitative measurement of T1 and T2 relaxation times. The T1 Mapping acquisition includes automatic motion correction that compensates for cardiac and/or respiratory motion, providing reliable results. T1 Mapping offers two methods of acquisition: Inversion-recovery Look-Locker with FIESTA readout (MOLLI) for apparent T1 (T1*) measurements or saturation-recovery SMART1Map for true T1 measurements.

FGRE Time Course adds an additional tool to the CVWorks toolkit for myocardial tissue evaluation. FGRE Time Course is designed for first pass studies and integrates automatic motion correction (MoCo) that compensates for cardiac and/or respiratory motion providing reliable results.

3D PROMO MOTION CORRECTION

Correct for motion prospectively on 3D imaging. 3D PROMO prospective motion correction uses a real-time 3D navigator-based technique to correct for motion, and is compatible with 3D Cube T2W, DIR and T2 FLAIR contrasts.

| Line | Qty. | Catalog | |
|------|------|---------|--|
| 3 | 1.00 | M7007BT | SIGNA™ Hero 3.0T Magnet, RF and Gradient System |

The 70cm, 3.0T Magnet, RF and Gradient system at the heart of the SIGNA™ Hero is designed to provide unsurpassed field stability, homogeneity and image quality for all exams – both routine and specialized. Equipped with features you expect like Active Shielding and a Zero Boil-Off cooling system contained in a compact, lightweight housing the SIGNA™ Hero magnet is built to be a long-lasting and low maintenance.

MAGNET

- Manufacturer: GE Healthcare
- Operating Magnetic Field Strength: 3.0T
- Shielding: Active
- Cooling: Cryogenic
- Cryogen Refill Period: Zero Boil-Off
- Typical V-RMS Homogeneity at 10cm DSV (ppm): 0.005
- Typical V-RMS Homogeneity at 40cm DSV (ppm): 0.25
- Typical V-RMS Homogeneity at 50cm DSV (ppm): 2.29

The dual 12.1" In-Room Displays guide the technologist to the next workflow step and provides real-time feedback on each site of the magnet. The IRDs enable technologists to update patient data, confirm coil connection status and check respiratory waveforms without leaving the patient's side.

- Display of patient name, ID, study description
- Display and entry of patient weight
- Display and entry of patient orientation and patient position
- Cardiac waveform display and ECG lead confirmation with gating control
- Respiratory waveform display
- Display connected coils and coil status
- Display of table location and scan time remaining
- Control in-bore ventilation and lighting
- Screen saver
- AutoStart to initiate scanning of the first series of the selected protocol

RF RECEIVE TECHNOLOGY

The RF architecture, gradient and computing technology infrastructure on SIGNA™ Hero is designed to deliver the signal-to-noise (SNR), dynamic range, spatial resolution, temporal resolution and computational power needed for demanding clinical applications.

Total Digital Imaging and RF Coil Suite

SIGNA™ Hero features the Total Digital Imaging (TDI) RF architecture with a 65 or 97 channel configuration. The TDI RF architecture uses a Direct Digital Interface (DDI) to convert the signal from each coil element to a digitized signal (there is no mixing of signal from multiple elements to the same digitizer) to deliver high signal and low noise with extended dynamic range or gray-scale capability. In addition, the TDI RF architecture enables the capability to simultaneously acquire the MR signal from the integrated body coil and the high-density surface coil using Digital Surround Technology. The superior SNR and sensitivity of the high-density surface coil is then combined with the superior homogeneity and deeper signal penetration of the integrated body coil to deliver enhanced spine and body imaging.

RF Transmit and MultiDrive Technology

SIGNA™ Hero features multi-port, MultiDrive RF transmit technology to improve RF uniformity and signal homogeneity at 3.0T. The RF transmit architecture consists of a liquid-cooled 30 kW solid-state RF power amplifier with multiple output channels and a 4-port drive whole-body transmit coil. As a result, SIGNA™ Hero can optimize the phase and amplitude of each output channel to the 4-port drive whole-body RF transmit coil to enhance RF uniformity and signal homogeneity regardless of patient shape, size, and/or body habitus.

- T/R body coil: fully integrated, 4-port, 16 rung quadrature design
- Digital RF pulse control: 2 amplitude modulators and 2 frequency/phase modulators

GRADIENT TECHNOLOGY

UHE Gradient system IGC and ART Quiet Acoustic Reduction Technologies

SIGNA™ Hero employs GE's Ultra High Efficiency (UHE) gradient system with Intelligent Gradient Control technology (IGC). The IGC gradient driver employs a digital control system that utilizes predictive models of the electrical and thermal characteristics of the gradient coil to maximize performance. As a result, SIGNA™ Hero delivers exceptional minimum TR and TE capability while reducing power consumption with an eco-friendly design. The gradient coil and the RF body coil are integrated into a single module which is water and air-cooled for optimum duty-cycle performance and patient comfort. In addition, the gradients are non-

resonant and actively shielded to minimize eddy currents to deliver high fidelity, accuracy and reproducibility over a large FOV.

- Maximum Gradient Amplitude Performance*: 45 mT/m
- Maximum Slew Rate Performance*: 200 T/m/s
- Maximum FOV: 50 cm x 50 cm x 50 cm
- Duty Cycle: 100%

*SIGNA™ Hero’s UHE gradient technology delivers minimum TE and TR values that are equivalent and comparable to other gradient technologies running at 45 mT/m peak amplitude and 200 T/m/s peak slew rate.

The SIGNA™ Hero features Acoustic Reduction Technology (ART) that significantly addresses both vibrational noise and airborne sound. ART acoustic reduction uses 5 levels of isolation, dampening and gradient optimization technology to mitigate vibration and mute sound.

- Gradient & RF coil isolation – isolates the resonance module from the magnet
- Vibro-acoustic isolation –isolates the magnet from the building
- Mass-damped acoustic barriers – further mutes sound
- Gradient waveform optimization – user selectable

| Line | Qty. | Catalog | |
|------|------|---------|--------------------------------|
| 4 | 1.00 | S7529ZB | Traditional Cabinet Siting Kit |

The Traditional Cabinet Siting kit provides the cabinets and hardware components to install the system cabinets along the RF Screen Room wall shared between the magnet and equipment rooms.

| Line | Qty. | Catalog | |
|------|------|----------|--|
| 5 | 1.00 | M70074SW | PX29.1 SIGNA™Works AIR™ IQ Edition Software and Application Toolkits |

SIGNA™Hero ships ready for anything with the AIR™ IQ Edition of SIGNA™Works software. Built on decades of improvements and enhancements, SIGNA™Works software features several new enhancements in addition to exceptional capabilities available in the SIGNA™Works Application Toolkits.

The latest enhancements include several key improvements to Exam, Patient Setup and Scanning workflows:

- Split Exam create/assign separate exam number for a sub-set of series
- AIR™ Recon smart algorithm for brain, MSK, body, cardiac, PROPELLER MB and FOCUS DWI imaging
- Whole-Body automated multi-station localizer and auto pasting
- Whole-Body automated multi-station FSE-IR, 3D SPGR and DWI imaging
- SnapShot SSFSE multi-slice per breath-hold imaging
- Cube flexibility for modifying/reducing scan time
- Dynamic phase correction for FSE imaging
- Uniformity optimization for large FOV body diffusion
- Flexible ZIP allows for flexible resolution by percentage to enhance the sharpness while decreasing the scan time

The SIGNA™Works AIR™ Workflow comprises the modality worklist, protocol libraries, workflow manager, auto-functions, inline viewing and inline processing. Together these tools are designed to change the way you work by simplifying and accelerating the scanning process from set-up to post-processing. With SIGNA™Works, workflow can begin before the patient enters the magnet room and exams can be completed with a few mouse clicks delivering quality and consistency for all patients and from all technologists. AIR™ Workflow maintains the flexibility needed to rapidly adapt and optimize exams for specific patient situations including the ability to pause and resume the exam without the need to start over.

EXAM WORKFLOW

AIR™ IQ Workflow delivers new capabilities that speed set-up for all exams and streamline scanning for multi-station and combination exams. With AIR™ Workflow, scan set-up starts with Modality Worklist, an automated method to obtain patient, exam and protocol information from a DICOM work-list server. For sites with full DICOM connectivity, the In-Room Operator Console will automatically highlight the relevant exam details once a patient has been selected from the Modality Worklist. The Modality Worklist enables complete control of the MR protocol prescription, but also reduces work by allowing the MR protocol

to be selected and linked to the patient record in advance of the patient's arrival.

Protocol Tools enable exam automation while also giving the user complete control of protocols for prescription, saving, searching, and sharing. Protocols are organized in two libraries: GE Optimized (preloaded protocols) and Site Authored (customized and saved). Protocols can be saved based on patient demographics, anatomy, scan type, or identification number for rapid search and selection. Commonly used protocols can be flagged as favorites for quick selection from the Modality Worklist.

ProtoCopy enables a complete exam protocol to be shared with the click of a mouse. GE protocols provided with the system include Protocol Notes designed to guide the user through the procedure. For special applications, Protocol Notes also include video guides with step-by-step video-based demonstration and instruction. Protocol Notes can be edited by the user to reflect protocol modifications to aid communication among users.

PATIENT SETUP & PRESCRIPTION

With the patient positioned, IntelliTouch and AIR Touch™ together simplify coil selection to one touch and one click. AIR Touch™ automatically determines coil element locations based on the IntelliTouch landmark and intelligently generates the coil configuration with elements activated to optimize image quality for coverage, uniformity, and parallel imaging acceleration factor.

At the console, the AIR™ WorkFlow Manager implements the selected protocol. The Workflow Manager controls location prescription, acquisition, processing, visualization, and networking, and can fully automate these steps, if requested by the user. Once the target anatomy has been prescribed, the Linking feature can be used to translate appropriate parameters to all subsequent series that have been linked, eliminating the need for further action by the user.

When selected, AutoStart will automatically initiate the localizer, coil selection, series-to-series scanning, multi-station scanning, prescription of scan plans for brain exams, as well as delivered instructions to the patient. Pause and Resume allows the user to pause a scan in progress (even in automated mode), to respond to a patient need, and then resume mid-scan without starting the scan over. For breath-hold scanning, Auto Protocol Optimization provides automated alternative choices for spatial resolution and breath-hold time based on the original protocol. Technologists are liberated from troublesome scan time and image quality adjustments by selecting from pre-calculated options determined by the system.

- Whole Body Localizer automates the acquisition and pasting of multi-station scans for planning, and Whole-Body Imaging enables automated multi-station scanning with FSE-IR, 3D SPGR and DWI diffusion contrasts.
- Once scanning and processing are complete, Split Exam provides the capability to extract a subset of series from multi-station and combination exams to create/assign a separate exam number for accession numbers in billing and PACS systems.

SCAN WORKFLOW

Inline Processing automatically completes post-processing steps for the user after the images have been reconstructed and saved into the database. These automated processing steps can be saved to the (scan) protocol to ensure consistent output and workflow:

- Diffusion weighted series: automatic compute and save
- Diffusion tensor series: automatic compute and save
- eDWI: automatic compute and save
- Image filtering: automatic compute and save
- Maximum/Minimum Intensity Projection: automatic compute and save
- Pasting: automatic compute and save
- Reformat to orthogonal plane: automatic compute and save
- T2 map for cartilage: automatic compute and save
- 3D Volume Viewer: automatic load
- Image Fusion: automatic load
- Interactive Vascular Imaging: automatic load
- FiberTrak: automatic load
- Spectroscopy: automatic load

SIGNA™WORKS AIR™ IQ EDITION TECHNOLOGIES

The SIGNA™Works AIR IQ Edition is designed to change the way you work by simplifying and accelerating the scanning process from set-up to post-processing while delivering access to a broad range of clinical imaging capability. The AIR™ IQ Edition of SIGNA™Works comprises the operating software, pulse sequence families, clinical applications and visualization toolkits as well as acceleration, motion correction and tissue suppression technology.

The acceleration, motion correction and tissue suppression technologies in the SIGNA™Works AIR™ IQ Edition are designed to address overall workflow, rescans and scan time as well as the impact of challenging patients, challenging anatomy and challenging physiology.

ACCELERATION TECHNOLOGY

Reduce scan set-up and acquisition time with AIR™ Workflow, including parallel imaging and partial k-space techniques. Many techniques can be used in combination for additive effects.

AIR Touch™ intelligent activation reduces set-up time by reducing coil selection and optimization to one finger touch and one mouse click. AIR™ Touch then activates coil elements based on the anatomy, FOV and ARC parallel imaging factor.

- AIR™ Recon is a smart reconstruction algorithm that reduces background noise and artifacts enabling enhanced image quality without the need for longer scan times. AIR™ Recon is compatible with a broad range of imaging sequences including: FSE, 3D Cube, SPGR/FSPGR, GRE/FGRE, PROPELLER MB, eDWI, FOCUS DWI, FIESTA, Black Blood, Time Course, MDE, SSMDE and StarMap.
- ARC parallel imaging reduces scan time using an auto-calibrating (data-driven) technique and enables smaller FOV prescription with less sensitivity to motion and prevents coil calibration artifacts.
- ASSET parallel imaging reduces scan time using an array spatial sensitivity (image driven) technique. ASSET takes advantage of the data produced by the multiple coil elements to reduce the total data needed.
- Flexible No Phase Wrap reduces scan time by reducing the number of increments acquired based on a flexible user-selectable factor.
- Fractional NEX reduces scan time by reducing the number of data averages.
- HyperSense* delivers iterative reconstruction using a mathematical approach to identify and calculate data into an image without the need to acquire the typical data required for a complete image.
- HyperMAVRIC SL* automatically tailors the acquisition of patient implants. When paired with MAVRIC SL, HyperMAVRIC SL can achieve 40% shorter scan times. As a 3D acquisition, it can provide isotropic resolution that can improve lesion conspicuity.
- HyperCube* enables 3D acquisition of an area of interest without imaging the entire FOV or using no-phase wrap. HyperCube is compatible with any Cube sequence
- HyperBand* excites and acquires multiple slices simultaneously for EPI-based acquisitions.

*Optional applications available for purchase.

MOTION CORRECTION TECHNOLOGY

Enable free-breathing body exams and address the effects of motion with patient-adaptive technologies that proactively detect and correct for motion without hardware dependencies or the need for user intervention.

- Auto Body Navigators deliver real-time, respiratory motion compensated imaging for a broad range of sequences, including 3D T1 dynamic and T1 contrast-enhanced imaging. Auto Body Navigators use a software tracking pulse automatically placed to allow on-the-fly adjustment as well as pause/resume functionality to adapt to challenging patient circumstances. Auto Body Navigators do not require hardware or sensors and is compatible with FatSat, ASPIR and STIR T1 suppression techniques.
- PROPELLER MB combines radial acquisition and motion correction post-processing techniques to mitigate the effects of motion without needing to position the patient over a sensor. PROPELLER MB can be used to generate T1, T2, PD, T1 FLAIR, and T2 FLAIR contrasts and is compatible with the AIR™ Recon smart algorithm.
- PROMO prospective motion correction for routine 3D brain imaging
- Motion-Corrected Time Course studies for cardiac perfusion imaging

TISSUE SUPPRESSION TECHNOLOGY

Modify the contribution of fat or water signal with multiple tissue suppression techniques.

- FatSat uses a frequency selective pulse to target and suppress the signal from fat
- WaterSat frequency selective water suppression
- STIR inversion pulse fat or water suppression
- SPECIAL frequency selective fat suppression
- ASPIR spectrally selective fat suppression
- Flex 2-point Dixon techniques to separate fat and water signals

SIGNA™WORKS AIR™ IQ EDITION CLINICAL APPLICATION TOOLKITS

NeuroWorks, OrthoWorks, BodyWorks, OncoWorks, CVWorks, PaedWorks and Advanced Visualization.

Each clinical toolkit comprises pre-programmed protocols, clinical applications and visualization tools designed for the challenges of each imaging area. The resulting capability starts with simplified prescription and protocol set-up. Imaging capability extends to patient management and clinical workflow enhancements. Post-processing capability augments the portfolio with specialized tools designed to speed the review and processing tasks typically performed.

NEUROWORKS

The AIR™ IQ Edition for NeuroWorks brings Cube enhancements that provide greater flexibility for modifying/reducing scan time and adds AIR™ Recon image quality.

- READYBrain auto-align for automated brain exam prescription
- PROPELLER MB motion robust radial-FSE with T1, PD, T2, T2 FLAIR, T1 FLAIR with STIR and ASPIR
- PROPELLER DW Duo FSE-based diffusion with susceptibility reduction
- Flex 2-point Dixon fat-water separation for 2D FSE, and 3D Cube, and GRE sequences
- 3D Cube 2.0 FSE-based imaging with T1, T2, T1 FLAIR, T2 FLAIR and STIR
- 3D Cube Dual Inversion Recovery for gray or white matter nulling
- 3D COSMIC modified steady state imaging
- 2D/3D MERGE T2* multi-echo fast gradient echo imaging
- 3D BRAVO IR prepared fast SPGR imaging with concentric k-space filling
- 3D MP-RAGE IR prepared fast SPGR imaging with sequential k-space filling
- 3D FIESTA and 3D FIESTA-C fast steady state imaging
- eDWI enhanced diffusion with Multi-B value, SmartNEX, tetrahedral and 3-in-1 diffusion directions
- DTI diffusion tensor imaging
- FiberTrak post-processing for diffusion tensor to display white matter tracking
- 3D SWAN 2.0 GRE-based multi-echo susceptibility imaging including phase image
- Inhance 2.0 non-contrast MRA suite (3D velocity, 2D inflow, inflow IR, and Deltaflow)
- PROBE PRESS single voxel spectroscopy
- BrainStat GVF and AIF parametric maps
- READYView and BrainView post-processing which include time series, DWI/ADC maps, DTI, variable echo, BOLD, and spectroscopy (SV, 2D, 3D)
- Access to advanced third-party post-processing applications through MR Smart Subscription, such as Quantib and MAGiC Neuro

ORTHOWORKS

The AIR™ IQ Edition for OrthoWorks brings dynamic phase correction for enhanced FSE imaging and AIR™ Recon DL image quality.

- FSE and frFSE fast spin echo imaging suites with dynamic phase correction
- FatSat, STIR, SPECIAL, ASPIR, Spectral Spatial fat-suppression tools
- High Bandwidth distortion reduction for FSE
- MAVRIC SL for 3D FSE-based spectral imaging for MR-Conditional implants with T1, PD, T2 and STIR
- PROPELLER MB motion robust radial FSE with T1, PD, T2 and Fat Suppression (STIR and ASPIR)
- 3D Cube 2.0 FSE-based imaging with T1, T2, and STIR with flexible ZIP
- Flex 2-point Dixon fat-water separation for 2D FSE, and 3D Cube, and GRE and 3D Cube
- 3D COSMIC modified steady state imaging
- 2D/3D MERGE T2* multi-echo fast gradient echo imaging
- CartiGram T2 cartilage mapping
- READYView post-processing

BODYWORKS

The AIR™ IQ Edition for BodyWorks brings automated localizing and imaging for multi-station exams, adds AIR™ Recon image quality for body sequences, adds SnapShot multi-slice per breath-hold imaging and optimization for body diffusion.

- Auto Navigators diaphragm tracker for free-breathing scanning with on-the-fly adjustment, pause and resume functionality

- PROPELLER MB motion robust radial FSE with T1 and Fat Suppression (STIR and ASPIR)
- 3D Cube FSE-based imaging with T1, T2, and STIR with flexible ZIP
- eDWI enhanced diffusion with Multi-B value, SmartNEX, tetrahedral and 3-in-1 diffusion directions
- 3D Dual Echo gradient echo in/out phase imaging
- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL for dynamic or single-phase imaging (breath hold or free breathing)
- 3D LAVA Flex GRE 2-point Dixon fat-water separation for dynamic or single-phase imaging (breath hold or free breathing)
- IDEAL FSE 3-point Dixon fat-water separation
- Flex 2-point Dixon fat-water separation for 2D FSE, and 3D Cube, and GRE 2-point Dixon fat-water separation
- 3D MRCP frFSE imaging
- Inhance 2.0 non-contrast MRA suite (3D velocity, 2D inflow, inflow IR, and Deltaflow)
- 2D Fat Sat FIESTA fast steady state imaging
- Enhanced SSFSE Snapshot multi-slice imaging with SmartR
- Whole-Body multi-station localizer and pasting
- Whole-Body multi-station FSE-IR, 3D SPGR and DWI imaging
- StarMap iron assessment for liver and heart (acquisition)
- Multiphase DynaPlan
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring
- READYView and BodyView post-processing which include time series, DWI/ADC maps, and variable echo

ONCOWORKS

The AIR™ IQ Edition for OncoWorks brings automated localizing and imaging for multi-station exams, adds optimization for body diffusion and adds AIR™ Recon image quality.

- Auto Navigators diaphragm tracker for free-breathing scanning with on-the-fly adjustment, pause and resume functionality
- PROPELLER MB motion robust radial-FSE with T1, PD, T2, T2 FLAIR, T1 FLAIR with STIR and ASPIR
- PROPELLER DW Duo FSE-based diffusion imaging with susceptibility reduction
- Flex 2-point Dixon fat-water separation for 2D FSE and Cube
- 3D Cube 2.0 FSE-based imaging with T1, T2, T1 FLAIR, T2 FLAIR and STIR with flexible ZIP
- 3D Cube Dual Inversion Recovery for gray or white matter nulling
- 3D BRAVO IR prepared fast SPGR imaging with concentric k-space filling
- 3D MP-RAGE IR prepared fast SPGR imaging with sequential k-space filling
- Enhanced SSFSE Snapshot multi-slice imaging with SmartR
- Whole-Body multi-station localizer and pasting
- Whole-Body multi-station FSE-IR, 3D SPGR and DWI imaging
- eDWI enhanced diffusion with Multi-B value, SmartNEX, tetrahedral and 3-in-1 diffusion directions
- 3D LAVA and TurboLAVA with Turbo ARC and SPECIAL (breath hold or free breathing)
- 3D LAVA Flex GRE 2-point Dixon fat-water separation for dynamic or single-phase imaging (breath hold or free breathing)
- Multiphase DynaPlan
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring
- READYView, BrainView and BodyView post-processing including time series, DWI/ADC maps, DTI, variable echo, BOLD, and spectroscopy (SV, 2D, 3D)

CVWORKS

The AIR™ IQ Edition for CVWorks adds AIR™ Recon image quality for cardiac sequences with expanded capabilities for free breathing cardiac exams and additional motion robust solutions.

- Auto Navigators diaphragm tracker for free-breathing scanning with on-the-fly adjustment, pause and resume functionality
- iDrive for free breathing cardiac planning
- 2D FIESTA Cine gated steady-state, multi-phase imaging
- 3D FS FIESTA steady-state imaging with Fat Sat
- Cine IR fast gradient echo with IR-prep pulse to determine TI for MDE
- 2D MDE (late gadolinium enhancement (LGE)) IR Prep gated, fast gradient echo imaging with wideband suppression (high resolution and Single Shot)
- 2D PS MDE phase sensitive tissue characterization with wideband suppression (high resolution and Single Shot)
- Black Blood SSFSE (double IR, triple IR) single-shot FSE-based imaging
- Cine IR fast-gradient echo cardiac cine imaging with IR-prep pulse

- 2D/PS MDE phase sensitive tissue characterization
- StarMap iron assessment for liver and heart (acquisition)
- 2D/3D Time-of-Flight & 2D Gated Time-of-Flight
- 2D/3D Phase Contrast & Phase Contrast Cine
- TRICKS dynamic contrast enhanced, multiphase 3D MRA
- Inhance 2.0 non-contrast MRA suite (3D velocity, 2D inflow, inflow IR, and Deltaflow)
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring
- 3D QuickStep automated multi-station imaging
- READYView post-processing

PAEDWORKS

The AIR™ IQ Edition for PaedWorks brings Cube enhancements that provide greater flexibility for modifying/reducing scan time, enables AIR™ Recon image quality for PROPELLER MB, body and cardiac sequences and expands diffusion techniques.

- PROPELLER MB motion robust radial-FSE with T1, PD, T2, T2 FLAIR, T1 FLAIR with STIR and ASPIR
- 3D Cube 2.0 FSE-based imaging with T1, T2, T1 FLAIR, T2 FLAIR and STIR with flexible ZIP
- 3D Cube Dual Inversion Recovery for gray or white matter nulling
- 3D COSMIC modified steady state imaging
- 2D/3D MERGE T2* multi-echo fast gradient echo imaging
- 3D BRAVO IR prepared fast SPGR imaging with concentric k-space filling
- 3D MP-RAGE IR prepared fast SPGR imaging with sequential k-space filling
- 3D FIESTA and 3D FIESTA-C fast steady state imaging
- eDWI enhanced diffusion with Multi-B value and SmartNEX
- DTI diffusion tensor imaging
- FiberTrak post-processing for diffusion tensor
- SWAN 2.0 3D GRE-based multi-echo susceptibility imaging including phase image
- PROBE PRESS single voxel spectroscopy
- MAVRIC SL for 3D,S FSE-based spectral imaging for MR-Conditional implants with T1, PD, T2 and STIR
- MAVRIC SL FSE-based spectral imaging for MR-Conditional implants
- Auto Navigators diaphragm tracker free-breathing scanning with on-the-fly adjustment, pause and resume functionality
- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL for dynamic or single-phase imaging (breath hold or free breathing)
- 3D LAVA Flex GRE 2-point Dixon fat-water separation for dynamic or single-phase imaging (breath hold or free breathing)
- Inhance 2.0 non-contrast MRA suite (3D velocity, 2D inflow, inflow IR, and Deltaflow)
- Enhanced SSFSE Snapshot multi-slice imaging with SmartR
- Cine IR fast-gradient echo with IR-prep pulse to determine TI for MDE
- 2D MDE (late gadolinium enhancement (LGE)) IR Prep gated, fast gradient echo imaging with wideband suppression (high resolution and Single Shot)
- 2D PS MDE phase sensitive tissue characterization with wideband suppression (high resolution and Single Shot)
- Black Blood SSFSE (double IR, triple IR) single-shot FSE-based imaging
- StarMap iron assessment for liver and heart (acquisition)
- BrainStat GVF and AIF parametric maps
- READYView and BrainView post-processing

ADVANCED VISUALIZATION AND POST-PROCESSING

READYView is a SIGNA™ Works AIR™ IQ Edition advanced visualization tool designed to simplify the quantitative analyses of multiple data sets. READYView automatically selects the most relevant post-processing protocol for the user and provides guided workflow and general assistance for the processing algorithms. In addition, the user can customize workflows with adjustable layouts, personalized parameter settings and custom review steps. Key capabilities of READYView include the ability to analyze, export and save:

- Time series
- Diffusion weighted series
- Diffusion tensor series
- Variable echo series
- Blood oxygen level dependent (BOLD) series fMRI processing
- Spectroscopy data (single voxel and 2D or 3D CSI)
- MR Touch (MR elastography) series

| Line | Qty. | Catalog | |
|----------|-------------|-----------------|---|
| 6 | 1.00 | M70074AB | SIGNA™ Hero Host PC and Operator Console |

The compute systems on SIGNA™ Hero utilize a parallel, multi-processor design to enable simultaneous scanning, reconstruction, filming, post-processing, archiving and networking. Both the host computer and reconstruction systems use the Scientific Linux RT operating system. The Host PC utilizes a single tower configuration and includes an LCD monitor and keyboard assembly with an integrated intercom speaker, microphone, volume controls, and emergency stop switch. Start scan, pause scan, stop scan and table advanced to center “hot” keys are also included.

- Host Computer Platform: Intel Xeon W-2123 CPU
- Memory: 64 GB
- Hard Disk Storage: 1024 GB SSD
- Media Drives: CD/DVD

| Line | Qty. | Catalog | |
|----------|-------------|----------------|---------------------------------|
| 7 | 1.00 | M7079EB | Gen 7 DL Performance ICN |

Computing Platform and DICOM Conformance

SIGNA™Works MR systems enhance data reconstruction with the Orchestra platform and Smart AIR™ Recon. The Orchestra computing toolbox enables the integration of advanced reconstruction elements to support demanding, data-intense, applications as well as access to the reconstruction algorithms. AIR™ Recon uses a smart reconstruction algorithm that reduces background noise and artifacts enhancing image quality without the need for longer scan times.

- Reconstruction Engine: Gen7 Dual Intel Xeon Gold 5118 processor
- Memory: ≥128 GB
- Hard Disk Storage: 960 GB SSD
- 2D FFT/second (256 x 256 Full FOV): 63,000 2D FFT/second
- Orchestra reconstruction toolbox
- AIR™ Recon reconstruction

SIGNA™Works MR systems generate MR Image, Secondary Capture, Structured Report, and Gray Scale Softcopy Presentation State DICOM objects. The DICOM networking supports both send and query retrieve as well as send with storage commit to integrate with PACS archive. Refer to the DICOM Compliance Statement for details.

| Line | Qty. | Catalog | |
|----------|-------------|-----------------|---|
| 8 | 1.00 | M70012LR | Pioneer Scan Room Collector - Long |

The Long Scan Room Collector contains a collection of cables such as gradient cables and other materials necessary for system interconnections. The long configuration is designed for room configurations that require a long length based on distance between system components.

| Line | Qty. | Catalog | |
|----------|-------------|-----------------|---|
| 9 | 1.00 | M70032IL | Pioneer Scan and Equipment Room Kit - Long |

The Scan and Equipment Room Kit includes the Pioneer System Cable Collector, Gradient Hoses, LCD Monitor, and Desktop Collector with mouse and pad.

| Line | Qty. | Catalog | |
|-----------|-------------|-----------------|--|
| 10 | 1.00 | M70022MC | Main Disconnect Panel - 380V/400V/415V/480V 50/60Hz |

The Main Disconnect Panel safeguards the MR system's critical electrical components, by providing complete power distribution and emergency-off control.

| Line | Qty. | Catalog | |
|-----------|-------------|----------------|---|
| 11 | 1.00 | S7529ZT | SIGNA™ Hero eXpress Detachable Patient Table |

The SIGNA™ Hero eXpress Detachable Patient Table delivers the latest in the AIR™ Workflow to your practice. It offers three coils ports: one (1) 32ch Transmit/Receive port; two (2) 16ch Receive ports; one (1) integrated 32ch Receive port for the integrated TDI Posterior Array (PA) Coil.

- 250kg (550lbs) maximum patient weight for scanning
- 279kg (615lbs) maximum lift capacity
- Patient positioning (longitudinal speed), 30 cm/sec (fast) and 25 cm/sec (return to home)
- AIR Touch™ IntelliTouch and laser land-marking
- Integrated 40 element TDI Posterior Array coil (30ch simultaneous)
- 205 cm total scannable range when room size permits (NOTE: minimum room sizes defined in the Pre-Installation Manual support 181 cm total scannable range)
- 70 cm to 93 cm minimum to maximum height
- Head-first or feet-first imaging for most exams

| Line | Qty. | Catalog | |
|-----------|-------------|----------------|-------------------------------|
| 12 | 1.00 | M1000MW | Operator Console Table |

The Operator Console Table is designed specifically for the color LCD monitor and keyboard.

| Line | Qty. | Catalog | |
|-----------|-------------|-----------------|-----------------------------|
| 13 | 1.00 | M70012RP | English Language Kit |

English Language Kit

| Line | Qty. | Catalog | |
|-----------|-------------|-----------------|-----------------------------------|
| 14 | 1.00 | R33002AC | SIGNA MR Class A2 Warranty |

The SIGNA MR Class A2 Warranty provides access to service tools used to perform basic level service on the Equipment and is included at no charge for the warranty period.

| Line | Qty. | Catalog | |
|-----------|-------------|----------------|--------------------------------|
| 15 | 1.00 | M7100CB | 3.0T AIR Anterior Array |

The 30-channel AIR Anterior Array (AIR AA) is the next generation anterior array coil that allows flexibility in all directions to conform to the patient's anatomy. Based on the innovative technologies behind the Inca conductor and the Emode electronics, the AIR AA provides uncompromised SNR and acceleration performance, while improving the overall patient and user experience. The coil has been designed to adapt various patient shapes and sizes, with an ultra-light weight distribution. The AIR AA can be used for torso, cardiac, abdomen, prostate, pelvis, hip, whole-body and peripheral vascular examinations, in conjunction with other coils.

| Line | Qty. | Catalog | |
|-----------|-------------|----------------|--|
| 16 | 1.00 | M7006YK | 3.0T AIR™ MP Large and Medium Coils with Positioner Kit |

The coil package includes AIR™ Multi-Purpose (MP) Coils, Large and Medium, with a coil positioner kit.

The 21-channel 3.0T AIR™ MP Large and the 20-channel 3.0T AIR™ MP Medium are the next generation multipurpose coils that allow flexibility in any direction to conform to the patient's anatomy.

Based on the innovative AIR™ Coil technologies, the 3.0T AIR™ MP Coils provide good image quality and acceleration performance, while improving the overall patient and user experience. Those coil have been designed to adapt to various patient

shapes and sizes, expanding positioning versatility. AIR™ MP Coil Large is recommended to be used for Shoulder, Knee, Foot, Ankle, Hips, Prostate. And AIR™ MP Coil Medium is recommended to be used for Wrist, Elbow, Cardiac.

The AIR™ MP Coil Positioner Kit includes a knee positioner, a foot-ankle positioner, a wedge pad, a u-shaped pad and a strap kit. The Positioner Kit is compatible with both AIR™ MP Large and Medium Coils for positioning.

| Line | Qty. | Catalog | |
|------|------|---------|---|
| 17 | 1.00 | E8823NA | MRI Audio 1505 Complete system (for SIGNA Premier, Discovery™ MR750/750w, Optima™ MR450/450w, SIGNA™ PET/MR, SIGNA Architect/Artist/Voyager/Pioneer, SIGNA HDxt, and SIGNA Creator/Explorer hardware v25.3 and Pioneer hardware v26.1) |

MRI Audio 1505 Complete music system for MRI systems is designed for comfort and allows the patient to listen to music while being scanned in an MRI. The technologist is in full control of the system headphones, microphone, sound source and volume controls. Standard 3.5 mm plug for music source allows any compatible music player, tablet or phone. In-ear headphones work with any head coil.

Package includes:

- Digital amplifier
- iPad Mini
- iPad Mini mount with lock
- 3G transducer
- In-ear headphones, 29dB noise reduction
- Over-ear headphones, 29dB noise reduction
- Disposable ear tips (300 pairs)
- Technologist's speakers
- 6 ft RCA 3.5 mm cable
- Auto-voice/MIC adapter

| Line | Qty. | Catalog | |
|------|------|---------|-------------------------------------|
| 18 | 1.00 | W0302MR | TIP MR 3.0T Training Program |

This training program is designed for customers purchasing a GEHC 3.0T MR system. GEHC will work with the designated Customer contact to agree upon a reasonable training schedule for a pre-defined group of core technologists that will leverage blended content delivery and may include a combination of onsite days and virtual offerings, to include TiP Virtual Assist, the GEHC Answerline and available on-demand courses (“Virtual Inclusions”). This blended curriculum with multiple delivery platforms promotes learner retention and allows for an efficient and effective skill development.

This program may contain:

- Onsite training (generally 17 days)
- Virtual Inclusions may include:
 - Remote instructor-led training: Instructor leads a remote training session one-on-one or in a group, typically for 1 hour
 - Answerline Support-Access to GEHC experts for clinical, non-emergency applications assistance via phone or by using the iLinq button on the imaging console
 - Tip Virtual Assist-Direct interactive access to a GEHC expert for enhanced support.
 - On Demand courses-On healthcare learning system. Self-paced courses and webinars (CE and non-CE).

Training will be delivered at a mutually agreed upon time between the customer and GE Healthcare (excluding GE Healthcare holidays and weekends), are subject to availability and generally will not exceed 20 days. This training program has a term of twelve (12) months commencing on Acceptance, where all onsite training must be scheduled and completed within twelve (12) months of Acceptance and all Virtual Inclusions also expire at the end of such twelve (12) month period. Additional onsite days may be available for purchase separately.

All GEHC “Training” terms and conditions apply. Given the unique nature of this program, if this program is purchased as part of a purchase under a Governing Agreement, including any Master Purchase Agreement, Group Purchasing Organization Agreement, or Strategic Alliance Agreement, this program shall take precedence over any conflicting training deliverables set forth therein.

| Line | Qty. | Catalog | |
|------|------|----------|--|
| 19 | 1.00 | NI_MR_IN | \$41,275.00 applied to 3rd-Party Rigging Services. Rigging remains the responsibility of |

STALLATI Customer. Any rigging costs in excess of this amount shall be the responsibility of
ON Customer. Unapplied rigging funds will be forfeited without refund or credit.

Rigging, De-installation, Installation Charges.
 Rigging remains the responsibility of Customer.
 Any rigging costs in excess of this amount shall be the responsibility of Customer.
 Unapplied rigging funds will be forfeited without refund or credit.

| Line | Qty. | Catalog | |
|------|------|----------|--|
| 20 | 1.00 | NI_MR_IN | \$25,800.00 applied to 3rd-Party Rigging Services. Rigging remains the responsibility of |
| | | STALLATI | Customer. Any rigging costs in excess of this amount shall be the responsibility of |
| | | ON | Customer. Unapplied rigging funds will be forfeited without refund or credit. |

Rigging, De-installation, Installation Charges.
 Rigging remains the responsibility of Customer.
 Any rigging costs in excess of this amount shall be the responsibility of Customer.
 Unapplied rigging funds will be forfeited without refund or credit.

| Line | Qty. | Catalog | |
|------|------|----------|--|
| 21 | 1.00 | NI_MR_IN | \$29,277.00 applied to 3rd-Party Rigging Services. Rigging remains the responsibility of |
| | | STALLATI | Customer. Any rigging costs in excess of this amount shall be the responsibility of |
| | | ON | Customer. Unapplied rigging funds will be forfeited without refund or credit. |

Rigging, De-installation, Installation Charges.
 Rigging remains the responsibility of Customer.
 Any rigging costs in excess of this amount shall be the responsibility of Customer.
 Unapplied rigging funds will be forfeited without refund or credit.

Total Quote Subtotal: \$1,661,847.04

| Qty. | Credits and Adjustments | |
|------|-------------------------|---------------|
| 1.00 | Trade-in | \$-160,000.00 |

Total Quote Net Selling Price: \$1,501,847.04

If applicable, for more information on this devices' operating system, please visit GE Healthcare's product security portal at:
<https://securityupdate.gehealthcare.com/en/products>

Optional Items

Please initial the Catalogs you wish to purchase

| Catalog Number | Qty. | Description | Net Price | Initial |
|----------------|-------------|---|--------------------|---------|
| M7001KK | 1.00 | 3.0T 16-Channel T/R Hand Wrist Array | \$70,000.00 | _____ |

The 3.0T T/R Hand Wrist Array is a rigid shell 16 channel transmit/receive hand wrist coil designed for high resolution imaging with multi-planar parallel imaging capabilities allowing imaging with arm down approach.

| Catalog Number | Qty. | Description | Net Price | Initial |
|----------------|-------------|---|--------------------|---------|
| M7100SH | 1.00 | 3.0T 16-Channel Shoulder Coil by NeoCoil | \$75,000.00 | _____ |

The Phased Array 16-channel Shoulder Coil consists of a flexible anterior part and a rigid posterior part, delivering 16 channel performance optimized for high resolution shoulder imaging. The flexible anterior part provides a higher adaptability and patient comfort.

| Catalog Number | Qty. | Description | Net Price | Initial |
|----------------|-------------|---|--------------------|---------|
| M7001KL | 1.00 | 3.0T 18-Channel TDI T/R Knee Array | \$80,000.00 | _____ |

The 3.0T 18-channel Knee Array is a transmit/receive coil that produces high resolution images of the knee and is optimized for parallel imaging in all three directions to reduce acquisition times.

| Catalog Number | Qty. | Description | Net Price | Initial |
|-----------------|-------------|--|--------------------|---------|
| E88221XN | 1.00 | MRXperion injector plus informatics | \$71,840.00 | _____ |

MRXperion injector plus informatics

| Catalog Number | Qty. | Description | Net Price | Initial |
|-----------------|-------------|--|--------------------|---------|
| E88221XP | 1.00 | MRXperion injector plus informatics and analytics | \$83,120.00 | _____ |

MRXperion injector plus informatics and analytics

Trade-in Addendum to GE Healthcare Quotation

This Trade-In Addendum (“Addendum”), effective on **August 18, 2022**, between the GE Healthcare business identified on the Quotation and **Novant Health Charlotte Orthopedic Hospital** (“Customer”), is made a part of Quotation # **2008801914.15** ^ dated **August 18, 2022** (“Quotation”) and modifies it as follows:

A. Customer: (i) certifies that it has full legal title to the equipment and/or mobile vehicle (“mobile vehicles” are defined as any systems requiring a vehicle title) listed in Section E (“Trade-In Equipment”), free and clear of all liens and encumbrances; (ii) conveys title and, if applicable, registration and license documents to GE Healthcare effective on the date of removal or receipt of the Trade-In Equipment (mobile vehicles will not be removed from Customer site until GE Healthcare has received a clean title signed over to GE Healthcare); and (iii) affirms that the Trade-In Equipment has never been used on or to provide care to animals. If GE Healthcare removes the Trade-In Equipment, it will do so at its expense at a mutually agreed time. Trade-In Equipment shall be removed no later than thirty days following installation of Customer’s new system, unless explicitly otherwise agreed to by the parties in writing.

Mobile vehicles must include the VIN# on this trade-in addendum: VIN# [insert Vin #]. Mobile vehicles must have a valid DOT sticker and be road worthy at the time GE Healthcare is to take possession of them in order for GE Healthcare to accept a mobile vehicle on trade-in. Any and all logos or hospital affiliation stickers must be removed (outside and inside) by Customer and Customer shall clean the mobile vehicle of all debris and medical supplies prior to removal of the mobile vehicle by GE Healthcare.

B. Customer is responsible for: (i) providing timely, unrestricted access to the Trade-In Equipment in a manner that affords GE Healthcare, or third-party purchaser of the Equipment through GE Healthcare, the ability to complete Equipment inspection and testing, and the ability to complete an operating system back-up prior to de-installation within the timeframe required by GE Healthcare or said third-party purchaser, failure of which to provide may result in termination of this Trade-in Addendum and related credits and/or payments; (ii) ensuring that the Trade-In Equipment and the site where it is located are clean and free of bodily fluids; (iii) informing GE Healthcare of site-related safety risks; (iv) properly managing, transporting and disposing of hazardous materials located on site in accordance with applicable legal requirements; (v) rigging, construction, demolition or facility reconditioning expenses, unless expressly stated otherwise in the Quotation; and (vi) risk of loss and damage to the Trade-In Equipment until safety risks are remediated and the Trade-In Equipment is removed or returned.

C. Prior to removal or return to GE Healthcare, Customer must: (i) remove all Protected Health Information as such term is defined in 45 C.F.R. § 160.103 (“PHI”) from the Trade-In Equipment; and (ii) indemnify GE Healthcare for any loss resulting from PHI not removed. GE Healthcare has no obligation in connection with PHI not properly removed.

D. GE Healthcare may in its sole discretion reduce the trade-in amount or decline to purchase the Trade-In Equipment and adjust the total purchase price of the Quotation accordingly if: (i) the terms of this Addendum are not met; (ii) Customer fails to provide access to the Trade-In Equipment as required herein; or (ii) the Trade-In Equipment is missing components or is inoperable and/or non-functioning when removed or returned – Customer is required to confirm for GE Healthcare the operability of the Trade-In Equipment prior to the deinstallation of the Equipment. All other terms and conditions of the Quotation remain in full force and effect.

E. Trade-In Equipment:

| Trade-In Equipment Mfr. | <u>Model & Description</u> | <u>Quantity</u> | System ID* | Trade-In Amount (\$) |
|-------------------------|--------------------------------------|-----------------|------------|----------------------|
| | Hitachi_1_2T_Oasis_Open_MRI Trade-in | 1.00 | SN_M135 | \$-160,000.00 |

This Addendum is executed when: (i) signed by the parties below; (ii) Customer receives this Addendum and signs the Quotation that references the Trade-In Equipment; or (iii) Customer receives this Addendum and issues a purchase order identifying either the terms of the Quotation (which includes a reference to the Trade-In Equipment) or the Governing Agreement identified on the Quotation as governing the order (PO# _____).

Novant Health Charlotte Orthopedic Hospital

GE Healthcare

Signature: _____

Signature: _____

Print Name: _____

Print Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

^ A Quotation number must be provided on this document.

* In the event the Trade-In Equipment does not have a System ID, please record the serial number of each component that comprises the Trade-In Equipment.

† If you are relying upon the purchase order to reflect acceptance of the terms contained herein, please update this document with the applicable PO number upon receipt of the PO. Failure to do so may result in delays surrounding deinstallation of the System(s).

GPO Agreement Reference Information

| | |
|------------------|---|
| Customer: | Novant Health Charlotte Orthopedic Hospital |
| Contract Number: | Novation Vizient Supply LLC |
| Billing Terms: | 80% on Delivery / 20% on Acceptance |
| Payment Terms: | 45 Net |
| Shipping Terms | FOB DESTINATION |

Offer subject to the Terms and Conditions of the applicable Group Purchasing Agreements currently in effect between GE Healthcare and Novation Vizient Supply LLC

If applicable, for more information on this devices' operating system, please visit GE Healthcare's product security portal at: <https://securityupdate.gehealthcare.com/en/products>

This product offering is made per the terms and conditions of Vizient /GE Healthcare GPO Agreements as follows:

Imaging:

XR0882-MR, XR0702-Card./Vasc., XR0673-CT, XR0342-Mammo, XR0895-PET-CT, XR0362-Nuc Med, XR0715-R&F/RAD & XR0592-ICAR-EP/HEMO, XR0692-BMD

Ultrasound:

XR0431-Ultrasound

LCS:

CE2512 (Anesthesia), CE3033 (Monitoring), CE3333 (Infant Care), CE2881 (DCAR) and CE0351 (EP).

Vizient: Please login to the Vizient Marketplace Website. If you require assistance or are experiencing issues, please contact Vizient for support: Email: Connect@VizientInc.com and Phone: 866-600-0618.

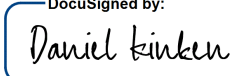
Attachment E

Projected Capital Cost Form
Novant Health COH Medical Center MRI Replacement

| | |
|---|---------------------|
| Building Purchase Price | NA |
| Purchase Price of Land | NA |
| Closing Costs | NA |
| Site Preparation | NA |
| Landscaping | NA |
| Construction/Renovation Contract(s) | \$ 450,000 |
| Architect / Engineering / DHSR Fees | \$ 41,850 |
| Medical Equipment | \$ 1,501,847 |
| Medical Equipment Option 1: Hand Wrist Array | \$ 70,000 |
| Medical Equipment Option 2: Shoulder Coil | \$ 75,000 |
| Medical Equipment Option 3: Knee Array | \$ 80,000 |
| Medical Equipment Option 4: Injector plus informatics and analytics | \$ 83,120 |
| Non-Medical Equipment | \$ - |
| Furniture | \$ - |
| DPS/IT Systems | \$ - |
| Financing Costs | \$ - |
| Other: (Trade-In Cost) | \$ 160,000 |
| Other: Contingency | \$ 75,192 |
| Total Capital Cost | \$ 2,537,009 |

CERTIFICATION BY A LICENSED ARCHITECT OR ENGINEER

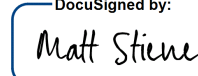
I certify that, to the best of my knowledge, the projected construction costs for the proposed project is complete and correct.

DocuSigned by:

 Signature of Licensed Architect or Engineer
 Daniel Kinken AIA, NCARB, LEED AP BD+C, McCulloch England

Date Signed: 08/24/2022 | 4:09:15 EDT

CERTIFICATION BY AN OFFICER OR AGENT FOR THE PROPONENT

I certify that, to the best of my knowledge, the projected total capital cost for the proposed project is complete and correct and that is our intent to carry out the proposed project as described.

DocuSigned by:

 Signature of Officer/Agent
 Senior Vice President, Construction & Facilities Svcs, Novant Health
 Title of Officer/Agent

Date Signed: _____

From: [Faenza, Julie M](#)
To: [Waller, Martha K](#)
Subject: FW: [External] Replacement of Existing MRI Scanner at Novant Health Charlotte Orthopedic Hospital
Date: Wednesday, September 7, 2022 4:54:53 PM
Attachments: [COH MRI REER 8.31.22.pdf](#)

Julie M. Faenza, Esq.

Pronouns: She/her/hers

Project Analyst, Certificate of Need

[Division of Health Service Regulation](#), [Healthcare Planning and Certificate of Need Section](#)
[NC Department of Health and Human Services](#)

Office: 919-855-3873

Julie.Faenza@dhhs.nc.gov

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#StayStrongNC and get the latest at nc.gov/covid19.

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From: Kohli, Sonia <SKohli@novanthealth.org>
Sent: Thursday, September 1, 2022 3:16 PM
To: Faenza, Julie M <Julie.Faenza@dhhs.nc.gov>
Cc: Griffin, Lisa L <lgriffin@novanthealth.org>; Stancil, Tiffany C <Tiffany.Stancil@dhhs.nc.gov>
Subject: [External] Replacement of Existing MRI Scanner at Novant Health Charlotte Orthopedic Hospital

CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to [Report Spam](#).

Dear Ms. Faenza,

Please see the attached document outlining an MRI replacement of an existing MRI scanner at Novant Health Charlotte Orthopedic Hospital (COH). Please let me know any questions or if there is anything further I can provide.

Thanks!

Sonia

Sonia Kohli

Associate Consultant

Novant Health | Internal Consulting Group

843-816-0512

skohli@novanthealth.org

We are here to help you get the care you need. Visit [Novant Health](#) for up-to-date information.

Estamos aquí para ayudarle con el cuidado que usted necesita. Visite [Novant Health](#) para información actualizada.

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