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

February 13, 2023

Joy Heath
jheath@williamsmullen.com

Exempt from Review – Replacement Equipment

Record #:	**4128**
Date of Request:	January 31, 2023
Facility Name:	OrthoCarolina, PA
FID #:	061317
Business Name:	OrthoCarolina, PA
Business #:	1360
Project Description:	Replace existing mobile MRI scanner
County:	Mecklenburg

Dear Ms. Heath:

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(a)(7). Therefore, you may proceed to acquire without a certificate of need the GE Signa Voyager 1.5T mobile MRI scanner to replace the GE Signa Excite 1.5T mobile MRI scanner (Project ID #F-7987-07). 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

Julie M. Faenza
Project Analyst

Micheala Mitchell

Micheala Mitchell
Chief

Joy Heath
Direct Dial: 919.981.4001
jheath@williamsmullen.com

January 31, 2023

Michaela Mitchell, Chief
Julie Faenza, Project Analyst
Healthcare Planning and Certificate of Need Section
Division of Health Service Regulation
North Carolina Department of Health & Human Services
Raleigh, North Carolina

Via E-Mail Only:
Martha Waller, Administrative Specialist I
Martha.waller@dhhs.nc.gov

RE: OrthoCarolina, PA
Notice of Exemption
Replacement of Existing Mobile MRI
Mecklenburg County

Dear Ms. Mitchell and Ms. Faenza:

Our law firm represents OrthoCarolina, PA ("OrthoCarolina") in certificate of need ("CON) matters and we submit this letter as notice of OrthoCarolina's intent to replace an existing Mobile MRI scanner. We respectfully request that the CON Section confirm that the replacement of this Mobile MRI scanner is exempt from CON review based on the following representations.

Prior Written Notice

As explained in more detail below, OrthoCarolina gives notice of its intent to acquire an MRI scanner solely for the purpose of replacing comparable medical equipment currently in use. The equipment to be purchased, based on its cost and capabilities, meets the CON Law definition of replacement equipment. OrthoCarolina's existing equipment will be sold to the manufacturer via trade-in.

CON Law & Regulations

As you know, the CON Law provides for an exemption from CON review when prior written notice is received explaining a proponent's intent to provide "replacement equipment." N.C. Gen. Stat. § 131E-184(a)(7). The CON Law defines replacement equipment as equipment that costs less than two million dollars ($2,000,000) that is purchased for the sole purpose of replacing comparable medical equipment currently in use which will be sold or otherwise disposed of when replaced. N.C. Gen. Stat. § 131E-176(22a).

The accompanying regulation defines "currently in use" to mean that the equipment to be replaced has been used by the person requesting the exemption at least 10 times to provide a health service during the 12 months prior to the date the written notice required by §131E-

184(a) is submitted to the CON Section. Replacement equipment is not "comparable" if: (1) the replacement equipment to be acquired can provide a health service that the equipment to be replaced cannot provide; or (2) the equipment to be replaced was acquired less than 12 months prior to the date the written notice required by §131E-184(a) is submitted to the CON Section and it was refurbished or reconditioned when it was acquired by the person requesting the exemption. 10A N.C.A.C. 14C.0303.[1]

Requestor's Representations

OrthoCarolina seeks to replace its existing Mobile MRI scanner, CON # F-007987-07, and the associated trailer ("the existing unit"). The existing unit is currently in use in Mecklenburg County.

OrthoCarolina intends to purchase a GE SIGNA Voyager 1.5T MRI scanner ("the new unit") and a new trailer for the unit. The new unit is being purchased for the sole purpose of replacing the existing unit of comparable medical equipment.

The new unit with trailer costs less than two million dollars ($2,000,000) including the costs of equipment, and to the extent applicable, any studies, surveys, designs, plans, working drawings, specifications, construction, installation, and other activities essential to acquiring and making operational the replacement equipment. A GE Quote indicates that the new unit (and trailer) costs $1,830,437.18 with a Trade-In Allowance of $50,000.00 for a total cost of $1,780,437.18. In accordance with the Trade-In Addendum to the GE Healthcare Quotation, the existing unit is being sold to GE to secure the Trade-In Allowance of $50,000; GE Healthcare will remove the existing unit at its expense (without additional charge) and will not thereafter be authorized to operate the existing unit in North Carolina.[2]

The new unit of replacement equipment to be acquired is not capable of providing a health service that the existing unit to be replaced cannot provide. The existing unit to be replaced was acquired well more than 12 months prior to the date of submission of this written notice.

The proposed acquisition of the new unit does not trigger CON review per any other provisions of the CON Law. Considering the equipment to be purchased is replacement equipment and involves a cost of less than two million dollars ($2,000,000), the equipment to be acquired does not fall within the CON Law definition of "major medical equipment" nor does it constitute a "new institutional health service" under any other provisions of the CON Law.

Request for Exemption

Based on the submission of this prior written notice and the representations noted above, OrthoCarolina respectfully requests that the CON Section confirm that the above-described project is exempt from CON review and OrthoCarolina may proceed to acquire, without a

[1] Section 14C.0303 was amended effective January 1, 2021, as reflected in Exhibit A.
[2] The GE Quote and Addendum are included in Exhibit B. Please note: (1) several references to OrthoCarolina Spine Center appear in the Quote but the Mobile MRI unit will be sold to and paid for by OrthoCarolina, P.A.; (2) a complimentary software upgrade is mentioned on page 17 but is not applicable to the replacement MRI unit.

CON, the GE SIGNA Voyager 1.5T MRI to replace its existing MRI. OrthoCarolina will sell the existing unit to GE which will not thereafter be authorized to operate the unit in North Carolina without a CON if required.

Thank you for your attention to this request and for providing the requested confirmation following your evaluation of this notice and the representations included here. If any additional information would be helpful in connection with the above, please do not hesitate to contact the undersigned.

With kind regards,

Joy Heath

Joy Heath
Attorney for OrthoCarolina, PA

Attachments

cc: Elizabeth Jones
OrthoCarolina, PA

Showing differences between versions effective [See Text Amendments] to December 31, 2020 and January 1, 2021 [current]
Key: ~~deleted text~~ **added text**
19 deletions · **17** additions

10A NCAC 14C.0303

.0303 REPLACEMENT EQUIPMENT

(a) ~~The purpose of this~~ **This** Rule ~~is to define~~ **defines** the terms used in the definition of "replacement equipment" set forth in G.S. 131E-176(22a).

~~(b) "Activities essential to acquiring and making operational the replacement equipment" means those activities which are indispensable and requisite, absent which the replacement equipment could not be acquired or made operational.~~

~~(c) "Comparable medical equipment" means equipment which is functionally similar and which is used for the same diagnostic or treatment purposes.~~

~~(d) Replacement equipment is comparable to the equipment being replaced if:~~

~~(1) it has the same technology as the equipment currently in use, although it may possess expanded capabilities due to technological improvements; and~~

~~(2) it is functionally similar and is~~ **b) "Currently in use" means that the equipment to be replaced has been** used ~~for the same diagnostic or treatment purposes as~~ **by the person requesting** the ~~equipment currently in use and is not used~~ **exemption at least 10 times** to provide a ~~new~~ health service~~; and~~ **during the 12 months prior to the date the written notice required by G.S. 131E-184(a) is submitted to the CON Section.**

~~(3) the acquisition of the equipment does 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.~~

(e **c**) Replacement equipment is not **"** comparable ~~to the equipment being replaced~~ **"** if:

(1) the replacement equipment **to be acquired** is ~~new or reconditioned, the existing equipment was purchased second-hand, and~~ **capable of providing a health service that** the ~~replacement~~ equipment ~~is purchased less than three years after the acquisition of the existing equipment~~ **to be replaced cannot provide**; or

(2) the ~~replacement~~ equipment **to be replaced was acquired less than 12 months prior to the date the written notice required by G.S. 131E-184(a)** is ~~new, the existing equipment~~ **submitted to the CON Section and it** was **refurbished or** reconditioned when ~~purchased, and the replacement equipment is purchased less than three years after the acquisition of~~ **it was acquired by the person requesting** the ~~existing equipment; or~~ **exemption.**

~~(3) the replacement equipment is capable of performing procedures that could result in the provision of a new health service or type of procedure that has not been provided with the existing equipment; or~~

~~(4) the replacement equipment is purchased and the existing equipment is leased, unless the lease is a capital lease; or~~

~~(5) the replacement equipment is a dedicated PET scanner and the existing equipment is:~~

~~(A) a gamma camera with coincidence capability; or~~

~~(B) nuclear medicine equipment that was designed, built, or modified to detect only the single photon emitted from nuclear events other than positron annihilation.~~

10A NCAC 14C.0303, 10A NC ADC 14C.0303

End of Document

GE Healthcare

January 11, 2023
Quote Number: **2009387565.5**
Customer ID: **5472**
Agreement Expiration Date: **12/30/2022**

OrthoCarolina PA
OrthoCarolina Spine Center
2001 Randolph Rd
Charlotte, NC 28207-1215

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	$1,780,437.18
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.

OrthoCarolina PA
OrthoCarolina Spine Center

Signature: _____

Print Name: _____

Title: _____

Date: _____

_____
Purchase Order Number, if applicable

GE Precision Healthcare LLC, a GE Healthcare business

Signature: Bob Garlington

Title: Account Manager - VASO Mfr Rep

Date: January 11, 2023

EXHIBIT
tabbies
B

GE Healthcare

January 11, 2023
Quote Number: **2009387565.5**
Customer ID: **5472**
Agreement Expiration Date: **12/30/2022**

To Accept This Quotation

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

Name: Bob Garlington
Email bob.garlington@ge.com
Phone: +1 8653122474
Fax:

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

OrthoCarolina PA
OrthoCarolina Spine Center

Addresses:

Bill To:	ORTHOCAROLINA SPINE CENTER	ORTHOCAROLINA SPINE CENTER, ACCOUNTS PAYABLE 2001 RANDOLPH RD CHARLOTTE NC, 28207-1215
Ship To:	ORTHOCAROLINA SPINE CENTER	ORTHOCAROLINA SPINE CENTER 2001 RANDOLPH RD CHARLOTTE NC,28207-1215

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**	**Y0000GD**	**US Lamboo Medical Mobile Unit powered by SVSR (For tracking purpose only - non purchasable catalog)**

US Lamboo Medical Mobile Unit powered by SVSR (For tracking purpose only - non purchasable catalog)

Line	Qty.	Catalog	
2	**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	
3	**1.00**	**S7529VF**	**SIGNA™ VOYAGER 1.5T 33 CHANNEL 29.1 MOBILE MR SYSTEM with Detachable Table**

For a period of 3 years from Equipment Acceptance, GE Healthcare will provide Customer (as part of the Equipment warranty) with the following software changes to the extent they maintain existing software features of the Equipment and are made generally available to GE Healthcare's installed customer base as part of warranty: (i) updates, which consist of error corrections or modifications; (ii) interface modifications; and (iii) security patches that have been validated by GE Healthcare to be compatible with the Equipment. Software upgrades (including revisions or enhancements to (i) the Equipment's software or (ii) separately licensed Software), which improve or expand existing software features and are made generally available for purchase under a separate GE Healthcare license, are excluded. Additional hardware required to implement the software changes are excluded. GE Healthcare remote connectivity to the Equipment is required per GE Healthcare terms and conditions.
The SIGNA™ Voyager 1.5T 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 1.5T wide-bore technology. With SIGNA™ Voyager simplify and accelerate the scanning process from set-up to acquisition to post-processing for your technical staff, with access to an extensive range of clinical imaging and advanced visualization capability for your clinicians.

This configuration of SIGNA™ Voyager is designed for installation in the mobile environment. The system catalog comprises the magnet, RF-architecture electronics, core RF coil suite, gradient electronics, computing platform, patient table and MR29.1 operating/imaging software. In addition, the necessary system cabinets, site collectors, installation collectors and calibration phantoms required for installation are part of this system catalog:

- 1.5T high-homogeneity magnet for the mobile environment
- TDI RF-Receive Technology and RF Coil Suite
- UHE with IGC Gradient and Quiet Acoustic Reduction Technology
- Computing Platform and DICOM Conformance
- SIGNA™Works AIR™ IQ Edition Workflow SIGNA™Works with eXpress Patient Table
- SIGNA™Works AIR™ IQ Edition Acceleration, Motion Correct and Tissue Suppression Technology
- SIGNA™ Works AIR™ IQ Edition Clinical Applications Toolkits
- SIGNA™ Works AIR™ IQ Edition READYView Advanced Visualization

TECHNOLOGY FOUNDATION

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

High-Homogeneity Magnet

The magnet is the foundation of the system, and the high-homogeneity SIGNA™ Voyager magnet is designed to provide large field-of-view imaging with uniform image quality. As a result, large anatomy can be imaged with a FOV of up to 50 cm, and off-center anatomy, such as the upper extremity, can be imaged without the need to position the anatomy at the magnet center. In addition, the SIGNA™ Voyager magnet delivers the robust fat suppression capability needed for musculoskeletal and body

imaging as well as the performance needed for demanding applications such as diffusion imaging and spectroscopy. To address siting and operating costs, the SIGNA™ Voyager magnet utilizes active-shielding technology to enable flexible siting, including siting in the mobile environment, and zero-boil technology to address the need for helium refills.

- Patient bore: 70 cm x 70 cm
- Patient aperture: 74 cm
- 2-way in-bore intercom system
- Adjustable in-bore lighting
- Adjustable in-bore ventilation
- Shielding: active
- Shimming: active and passive

Total Digital Imaging (TDI) and RF Coil Suite

SIGNA™ Voyager features the Total Digital Imaging RF-architecture with a 33-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, low noise with extended dynamic range or gray-scale capability.

The SIGNA™ Voyager coil suite is designed to enhance patient comfort and image quality while simplifying workflow. The suite includes:

- (1) Integrated T/R Body Coil
- (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 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
- Length: 120.5 cm; Width: 46.6 cm
- S/I coverage: 113 cm
- Parallel imaging in all three scan planes

The TDI Head and Neck Unit comprises the baseplate and the anatomically optimized Neuro-vascular array and the Open-face array. The superior end of the HNU can be elevated to enhance patient comfort and access. The HNU is designed to be used in conjunction with the TDI Posterior Array and the Anterior Array (sold separately). Parallel imaging in 3 directions is supported.

- Elements: up to 21 combined with PA
- Length: 53 cm; Width: 35 cm
- Height with NV Array: 35 cm
- Height with Open Array: 25.7 cm
- S/I coverage: up to 32 cm with the NV
- Parallel imaging in all three scan planes

UHE with IGC Gradient Technology and Quiet Technology

SIGNA™ Voyager introduces the Ultra High Efficiency (UHE) gradient system with Intelligent Gradient Control technology (IGC). 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™ Voyager delivers exceptional minimum TR and TE capability while reducing power consumption. 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.

- Peak amplitude per axis: 36 mT/m
- Up to 150 T/m/s instantaneous peak slew rate per axis
- Maximum FOV: 50 cm x 50 cm x 50 cm

• Duty Cycle: 100%

Designed to deliver an enhanced patient experience, SIGNA™ Voyager features Quiet Acoustic Reduction Technology (ART) that significantly addresses both vibrational noise and airborne sound. Quiet 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

Computing Platform and DICOM Conformance – Host PC Platform – Intel Xeon W-2123 CPU

SIGNA™ Voyager utilizes 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 operating system. The host computer PC utilizes a single tower configuration and includes an LDC 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.

- Memory: 64 GB
- Hard Disk Storage: 1024 GB
- Media Drives: CD/DVD

Reconstruction Engine – Gen7 Dual Intel Xeon Gold 5118

SIGNA™ Voyager enhances data reconstruction with access to 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. Smart AIR™ Recon is available on several key applications.

• Memory: >= 128 GB
• Hard Disk Storage: 960 GB
• 2D FFT/second (256 x 256 Full FOV): 63,000 2DFFT/second

SIGNA™ Voyager generates 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. Please refer to the DICOM Compliance Statement for details.

SIGNA™WORKS AIR™ IQ EDITION WORKFLOW WITH eXpress PATIENT TABLE

The SIGNA™Works AIR™ IQ Edition workflow tools comprise the eXpress patient table, 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 acquisition 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. At the same time, SIGNA™Works AIR™ workflow maintains the flexibility needed to rapidly adapt and optimize exams for specific patient situations including the ability to pause and resume a scan without the need to start over.

The SIGNA™ Voyager eXpress Patient Table is a crucial part of AIR™ Workflow. The eXpress table is a mobile patient transport device that houses the TDI Posterior RF Array (described earlier) and touch sensitive AIR™ Touch land-marking. The fully detachable table is easily docked and undocked by a single operator and moved in and out of the exam room for patient transport and preparation. The eXpress table and embedded PA coil are designed to enable offline (outside the scan room) patient preparation as well as rapid egress when needed.

- Maximum patient weight for scanning: 550 LBS
- Maximum patient weight mobile: 550 LBS
- Maximum patient weight for lift: 550 LBS
- Automated vertical and longitudinal power drive
- Cradle size: 236 cm long x 56 cm wide

- Integrated arm boards & non-ferrous IV pole
- IntelliTouch & laser land-marking
- Laser alignment land-marking

The SIGNA™Works AIR™ IQ Edition workflow tools comprise 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 acquisition 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. At the same time, SIGNA™Works AIR™ workflow maintains the flexibility needed to rapidly adapt and optimize exams for specific patient situations.

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, once a patient has been selected from the Modality Worklist, the In-Room Operator Console will automatically highlight the relevant exam details. 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 into 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, and commonly used protocols can be flagged as favorites for quick selection from the Modality Worklist. When AIR™ Recon DL (sold separately) and HyperWorks (sold separately) are purchased, associated protocols are unlocked for use.

In addition to pre-programmed protocols, 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.

In the scan room, the AIR Touch™ user interface simplifies coil activation 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, 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.

Auto Functions when selected can 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) helping to address rescans. For breath-hold scanning, Auto Protocol Optimization provides alternative choices for spatial resolution and breath-hold time based on the original protocol.
For multi-station exams, such as brain and spine, chest and body or lower leg run-offs, AIR™ Workflow streamlines localization and scanning. Whole Body Localizer automates the acquisition and pasting of multi-station scans for planning, and Whole-Body automated multi-station scanning can be performed with FSE-IR, 3D SPGR and DWI diffusion. Once scanning and processing are complete, Split Exam provides the capability to extract a subset of series from the exam and create/assign a separate exam number for accession numbers in billing and PACS systems.

Inline Processing automatically completes post-processing steps for the user after the images have been reconstructed and saved into the database. For certain tasks, such as vascular segmentation, the user must accept the results, or complete additional steps prior to saving the images to 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 CLINICAL APPLICATIONS TOOLKITS

SIGNA™Works AIR IQ Edition is designed to change the way you work by simplifying and accelerating the scanning process from set-up to acquisition 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 technology tools 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 a suite of techniques highlighted by AIR™ Workflow, 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: the FSE fast spin echo, 3D Cube fast spin echo, 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. ARC selectively acquires data using an adaptive algorithm. As a result, ARC 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.
- Fraction NEX reduces scan time by reducing the number of data averages.

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 T1w dynamic contrast-enhanced imaging. Auto Body Navigators use a software-based tracking pulse that is automatically placed for the user and allows on-the-fly adjustment to adapt to challenging patient circumstances, again without the need for hardware.
- PROPELLER MB combines radial acquisition and motion correction post-processing to mitigate the effects of motion without the need 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 FatSat, ASPIR, STIR T1 and Auto Body Navigators to enable usage for a broad range of exams.

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.
- STIR uses an inversion pulse to null either the signal from fat or water based on the timing of the pulse.
- SPECIAL essentially combines FatSat and STIR by using a frequency selective inversion pulse that targets and suppresses the signal from fat.
- ASPIR enhances fat suppression by using a using a spectrally selective (instead of a single frequency) inversion pulse to

null the signal from fat.

- IDEAL is a 3-point Dixon technique that separates the signal from fat and water based on phase shift and enables the generation of water-only, fat-only, in-phase and out-of-phase images.
- Flex is 2-point Dixon techniques that separates the signal from fat and water based on phase shift and enables the generation of water-only, fat-only, in-phase and out-of-phase images.

Clinical Toolkits

The SIGNA™Works AIR™ IQ Edition clinical imaging tools are organized and optimized to address six clinical work areas: NeuroWorks, OrthoWorks, BodyWorks, OncoWorks, CVWorks and PaedWorks.

NeuroWorks comprises pre-programmed protocols, clinical applications and visualization tools designed for the challenges of brain and brachial plexus imaging. Resulting capability starts with simplified prescription and protocol set-up. Imaging capability extends to sensor-free motion correction, advanced volumetric imaging, enhanced diffusion, susceptibility assessment and selective tissue suppression techniques. Post-processing capability augments the portfolio with 3D multi-planar reformat, volume segmentation/rendering, diffusion and fibertrak assessment and dynamic contrast-enhanced assessment.

- 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
- 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 and SmartNEX
- DTI diffusion tensor imaging
- FiberTrak post-processing for diffusion tensor
- Inhance 3D velocity phase-sensitive non-contrast MRA
- Inhance 2D in-flow non-contrast MRA
- 3D SWAN 2.0 GRE-based multi-echo susceptibility imaging
- PROBE PRESS single voxel spectroscopy
- BrainStat GVF and AIF parametric maps
- READYView and BrainView post-processing

OrthoWorks delivers pre-programmed protocols, clinical applications and visualization tools designed for the challenges of joint, long bone and spine imaging. Resulting capability starts with fast-spin echo techniques as the foundation for articular cartilage, ligaments, menisci and sub-chondral bone imaging. Imaging capability also extends to sensor-free motion correction, advanced volumetric imaging, selective tissue suppression, cartilage assessment and spectral imaging for MR-Conditional implants. Post-processing capability augments the portfolio with 3D multi-planar reformat, volume segmentation/rendering and T2 cartilage mapping.

- FSE and frFSE fast spin echo imaging suites with dynamic phase correction
- FatSat, STIR, SPECIAL, ASPIR, Spectral Spatial fat-suppression tools
- MARS High Bandwidth distortion reduction for FSE
- MAVRIC SL FSE-based volumetric 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
- Flex 2-point Dixon fat-water separation for 2D FSE 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 delivers pre-programmed protocols, clinical applications and visualization tools designed for the challenges of imaging the upper abdomen, liver, male pelvis and female pelvis. Resulting capability starts with sensor-free motion correction and navigators that enable the ability to conduct free-breathing exams with a broad range of contrast weighting capability. Imaging

capability further extends to snap-shot imaging, volumetric MRCP imaging, dynamic volumetric imaging, enhanced diffusion, iron deposition and selective tissue suppression techniques. Post-processing capability augments the portfolio with 3D multi-planar reformat and high-definition maximum/minimum intensity pixel projection.

- Auto Navigators diaphragm tracker for free-breathing scanning
- PROPELLER MB motion robust radial FSE with T1 and Fat Suppression (STIR and ASPIR)
- 3D Cube FSE-based imaging with T1, T2, and STIR
- eDWI enhanced diffusion with Multi-B value and SmartNEX
- 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
- 3D LAVA Flex GRE 2-point Dixon fat-water separation for dynamic or single-phase imaging
- IDEAL FSE 3-point Dixon fat-water separation
- Flex GRE 2-point Dixon fat-water separation
- 3D MRCP frFSE imaging
- 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
- Inhance 2D in-flow with IR non-contrast MRA
- 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

OncoWorks delivers pre-programmed protocols, multi-station, contrast-timing, clinical applications and visualization tools designed for the challenges of imaging throughout the brain, spine and body. Resulting capability starts with tools that simplify and streamline the steps associated with multi-station acquisition and the timing of contrast delivery. Imaging capability includes sensor-free motion correction and navigators that enable the ability to conduct free-breathing exams with a broad range of contrast weighting capability. Capability further extends to snap-shot imaging, dynamic volumetric imaging, enhanced diffusion and selective tissue suppression techniques. Post-processing capability augments the portfolio with 3D multi-planar reformat, volume segmentation/rendering, diffusion assessment and auto-contour.

- Auto Navigators diaphragm tracker for free-breathing scanning
- 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
- 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 and SmartNEX
- 3D LAVA and TurboLAVA with Turbo ARC and SPECIAL
- Multiphase DynaPlan
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring
- READYView, BrainView and BodyView post-processing

CVWorks delivers pre-programmed protocols, multi-station, contrast-timing, clinical applications and visualization tools designed for the challenges of imaging vascular structures and the heart. Resulting capability starts with tools that simplify and streamline the steps associated with multi-station acquisition and the timing of contrast delivery. Imaging capability includes sensor-free navigators that enable the ability to conduct free-breathing exams. For MRA, imaging capability includes 2D and 3D time-of-flight and phase contrast MRA, non-contrast MRA and dynamic MRA techniques. For the heart, imaging capability includes techniques for morphology, function, tissue characterization and iron deposition. Post-processing capability augments the portfolio with interactive vascular imaging for MRA and high-definition maximum/minimum pixel projection.

- Auto Navigators diaphragm tracker for free-breathing scanning

- iDrive for free breathing cardiac planning
- 2D FIESTA Cine gated steady-state, multi-phase imaging
- 3D FS FIESTA steady-state imaging with Fat Sat
- 2D/3D IR Prep gated fast gradient echo imaging
- Black Blood SSFSE 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 3D MRA
- Inhance 3D DeltaFlow non-contrast MRA
- Inhance 2D in-flow non-contrast MRA
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring
- 3D QuickStep automated multi-station imaging
- READYView post-processing

PaedWorks delivers pre-programmed protocols, clinical applications and visualization tools designed for the challenges of imaging pediatric patients. Resulting capability starts with sensor-free motion correction and navigators that enable the ability to conduct free-breathing exams with a broad range of contrast weighting. Imaging capability further extends to advanced volumetric imaging, dynamic volumetric imaging, enhanced diffusion, susceptibility assessment, selective tissue suppression techniques and spectral imaging for MR-Conditional implants. Post-processing capability augments the portfolio with 3D multi-planar reformat, volume segmentation/rendering and diffusion assessment.

- 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
- 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
- PROBE PRESS single voxel spectroscopy
- MAVRIC SL FSE-based spectral imaging for MR-Conditional implants
- Auto Navigators diaphragm tracker free-breathing scanning
- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL for dynamic or single-phase imaging
- 3D LAVA Flex GRE 2-point Dixon fat-water separation for dynamic or single-phase imaging
- Enhanced SSFSE Snapshot multi-slice imaging with SmartR
- Black Blood SSFSE 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)
- 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	
4	**1.00**	**M70072AR**	**SIGNA Voyager 33 to 49 Channel Upgrade**

SIGNA Voyager 33 to 49 Channel Upgrade

Line	Qty.	Catalog	
5	**1.00**	**M70012TS**	**Voyager 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	
6	**1.00**	**M70012RP**	**English Language Kit**

English Language Kit

Line	Qty.	Catalog	
7	**1.00**	**R33012AC**	**Standard Service License**

The Standard Service License 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	
8	**1.00**	**S7529DF**	**AIR™ Recon DL Package**

AIR™ Recon DL package is a pioneering, deep-learning based reconstruction algorithm applied to the raw scan data to improve SNR and image sharpness.

This propriety technique improves image quality at the foundational level by removing image noise and ringing artifacts while enabling shorter scan times.With AIR™ Recon DL, customers will be able to:

- Increase productivity by enabling shorter scan times
- Remove noise in the images through trained deep learning algorithms.
- Eliminate Gibbs and truncation artifacts with intelligent ringing suppression
- Experience TrueFidelity™ images that deliver sharper and clearer MR images
- Apply a tailored level of AIR™Recon DL based on preference
- Enable the most commonly applied 2D sequences without anatomical limitations without anatomical limitations
- Visualize AIR™Recon DL images directly at the MR console without reconstruction delays

Reconstruction performance today is challenged by explosive growth in data, and increased computational complexity. The amount of data to be stored and processed continues to increase with the advances in MR system technology. The Gen 7 DL Performance ICN Upgrade takes that challenge head-on with innovations in reconstruction to take full advantage of computing power and by leveraging both hardware and software technology. With over 128GB of memory, and 63,000 2D FFTs/second, the Gen 7 DL Performance ICN Upgrade delivers the advanced reconstruction you need.

Line	Qty.	Catalog

9	**1.00**	**S7529SX**	**AIR X™ AUTO GRAPHIC PRESCRIPTION**

AIR x™ Auto Graphic Prescription replaces traditional atlas-based methods with deep learning algorithms to automatically identify anatomical structures and prescribe slices locations for brain and knee exams. As a result of the deep learning algorithms, AIR x™ automatically adapts slice prescriptions for normal patient variants in 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. The AIR x™ Auto Graphic Prescription package provides solutions for two high-volume exams, brain and knee.

- AIR x™ auto graphic slice prescription for brain exams
- AIR x™ auto graphic slice prescription for knee exams

Line	Qty.	Catalog	
10	**1.00**	**S7529SA**	**HYPERWORKS**

This new generation of hyper-acceleration tools employ optimized approaches to accelerate data collection and reduce scan time. Sparse data sampling and tailored RF are used for volumetric imaging, simultaneous slice excitation is used for diffusion, tensor and echo-planar imaging and customized spectral selection is used for MR-Conditional implant imaging. Together the HyperWorks tools can be used to accelerate a broad range of exams.

- HyperSense 3D compressed sensing acceleration for volumetric imaging
- HyperSense 2.0 3D compressed sensing acceleration for volumetric imaging
- HyperCube tailored RF excitation for accelerated 3D Cube imaging
- HyperBand simultaneous multi-slice acceleration for DWI, DTI, and fMRI imaging
- HyperMAVRIC SL accelerated spectral imaging for MR-Conditional implants

HyperSense uses sparse data sampling to enable faster imaging without the penalties commonly found with conventional parallel imaging. HyperSense can be used with 3D Cube, 3D MRCP and 3D TOF sequences for brain, spine, MSK and vascular imaging. HyperSense 2.0 extends this acceleration technique to a broad range of 3D sequences to increase clinical utility. With HyperSense 2.0, compatibility extends to 3D MP-RAGE and 3D BRAVO for neuro imaging, 3D LAVA and 3D LAVA Flex for body imaging, 3D VIBRANT and 3D VIBRANT Flex (sold separately) for breast imaging, 3D DISCO and 3D DISCO Flex (sold separately) for body, liver, prostate and breast imaging. In addition, 3D gradient echo sequences including 3D MERGE, 3D FIESTA and 3D COSMIC become compatible.

HyperCube enables constrained/reduced phase FOV, and consequently reduced scan time, for small FOV organ-specific volumetric imaging while also addressing artifacts originating from outside of the prescribed FOV. HyperCube can be used throughout the body and is compatible with FatSat and Flex tissue suppression techniques. In addition, HyperCube can be combined with HyperSense for additive acceleration.

For diffusion imaging, HyperBand simultaneously excites multiple slices at different locations for diffusion, diffusion tensor and echo planar fMRI sequences. As a result, HyperBand can be used to reduce scan time, increase resolution or increase anatomical coverage.

For MR-Conditional implant imaging, HyperMAVRIC SL tailors and accelerates 3D MAVRIC SL based on the type of MR-Conditional implant. HyperMAVRIC SL automatically selects the number of spectra acquired to optimally reduce distortion and can enable shorter scan times when fewer spectra are needed. As a result, Hyper-accelerated 3D MAVRIC SL can provide isotropic resolution to address the need for multiplanar scans and enable multiplanar reformatting of the volumetric data.

Line	Qty.	Catalog	
11	**1.00**	**S7529SB**	**DIFFUSION**

The Diffusion toolkit delivers capabilities that reduce distortion, correct for motion and increase spatial resolution and sensitivity 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

PROGRES combines with diffusion and diffusion tensor sequences to enhance performance by using a reverse polarity technique to address distortion and correct for motion. The technique then outputs images with reduced susceptibility artifacts with no significant impact in overall scan time.

For high resolution diffusion the toolkit provides two techniques. MUSE DWI uses a multi-shot technique, and can be combined with PROGRES, to deliver high resolution with reduced distortion. PROGRES is compatible with Auto Body Navigators, ASSET acceleration, FatSat and STIR. FOCUS enables high spatial resolution for small organ-specific fields-of-view. FOCUS DWI uses 2D slice selective excitation pulses to constrain/reduce the phase FOV and address artifacts from motion and unsuppressed tissue outside the FOV.

MAGiC DWI generates multiple synthetic b-values from one scan and allows the modification of b-values in real time without further scanning. As a result, higher diffusion values can be achieved in shorter scan times without stressing protocol parameters or sacrificing contrast or anatomy coverage. MAGiC DWI can be combined with the full range of diffusion sequences.

Line	Qty.	Catalog	
12	**1.00**	**M7001NB**	**1.5T 16-channel TDI Anterior Array**

The 1.5T Anterior Array (AA) is a standard component of the TDI Coil Suite that facilitates chest, abdomen, pelvis, and cardiac imaging. The AA is lightweight, flexible, thin, and pre formed to conform to the patient's size and shape. With 54 cm of S/I overage, the coil permits upper abdominal and pelvic imaging without repositioning the patient or the coil.

Anterior Array Specifications:
- Length: 55.6 cm (22.1 in).
- Width: 67.4 cm (27.5 in).
- Height: 3.3 cm (1.7 in).
- Weight: 2.8 kg (6.16 lb) resting on patient.
- Weight: 3.9 kg (8.6 lb) with cable.
- S/I Coverage: 54 cm.
- Head or feet-first imaging.
- Elements: up to 28 elements in the field of view when used with the Posterior Array.

The AA may also be used with the TDI Head Neck Array and Peripheral Vascular Array for additional anatomical coverage.

Line	Qty.	Catalog	
13	**1.00**	**S7529QN**	**1.5T AIR™ MP Arrays and 3 Hard-Shell MSK**

This promotional coil package comprises:

- Large and Medium Multi-Purpose AIR™ Coils with coil positioner kit
- 16ch Shoulder Array
- 16ch T/R Wrist Array
- 16ch T/R Knee Array

The 21-channel 1.5T AIR™ MP Large and the 20-channel 1.5T AIR™ MP Medium Arrays utilize innovative AIR™ Coil technologies to expand positioning versatility, enhance patient and user experience, and deliver high performance acceleration and image quality.

These next generation multipurpose coils are designed to conform to various patient shapes and sizes and allow positioning in any direction. AIR™ MP Coil Large Array is recommended for use for Shoulder, Knee, Foot, Ankle, Hip, and Prostate imaging, and the AIR™ MP Coil Medium is recommended for Wrist, Elbow, and Cardiac Imaging.

The AIR™ MP Coil Positioner Kit provides 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.

The 16-channel 1.5T shoulder coil is a phased array design optimized for high resolution shoulder imaging with parallel imaging acceleration in 3 directions to address acquisition time. The coil combines a flexible, light anterior array with a hard-shell posterior array to enhance the ability to accommodate patient anatomy with lateral coverage to ensure large field of view imaging.

The 16-channel 1.5T Wrist coil is a transmit/receive phased array design optimized for high resolution hand and wrist imaging (with coverage from wrist to fingers) with parallel imaging acceleration in 3 directions to address acquisition time. The baseplate accommodates the coil for prone or supine patient positioning with the arm down approach.

The 16-channel 1.5T Knee coil is a transmit/receive phased array design optimized for high resolution imaging of the knee with parallel imaging acceleration in 3 directions to address acquisition time. The coil is sized to accommodate a broad range of patient sizes and features a two-part design to address workflow. Offset imaging is fully supported with adjustable left-right coil positioning.

Line	Qty.	Catalog	
14	**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	
15	**1.00**	**E8802MC**	**MR Signa Wide Security Straps**

Wide security strap set - includes one strap with Velcro and one strap with plastic buckle; 14 in. wide. For use with GE Signa MR systems.

Line	Qty.	Catalog	
16	**1.00**	**E8802MD**	**MR Signa Narrow Security Straps**

Narrow security strap set - includes one strap with Velcro and one plastic buckle; 6 in. wide. For use with GE Signa MR systems.

Line	Qty.	Catalog	
17	**1.00**	**E8802MH**	**MR Signa Replacement Table Pad (Gray)**

This replacement table pad is the same as the pad shipped with new systems. It has a gray, nylon cover and measures 15.5 in W x 60 in. L x 2 in. H. For use with GE Signa MR systems

Line	Qty.	Catalog	
18	**1.00**	**E4504FP**	**Eaton Single Phase 700 VA Partial UPS (MR package)**

Notes:
- Customer is responsible for rigging UPS unit
- Item is non-returnable and non-refundable
- Removal/disposal of the old unit is the customer's responsibility

Using an uninterruptible power supply (UPS) can help improve user productivity and system reliability, as well as reduce service costs and increase system uptime.
Combining reliable double-conversion topology, internal static bypass and an easy-to-ready LCD menu display, the Eaton 9SX UPS provides the highly efficient and reliable power you expect from a 9-series UPS in a convenient tower form factor.

Applications
The Eaton® Single Phase 9SX 700 VA Partial UPS package is designed to support a variety of GE MR imaging systems. When Catalog# E4504FP is used with MR SIGNA™ Voyager, SIGNA™ Pioneer, SIGNA™ Premier, SIGNA™ Architect or SIGNA™ Hero systems, the configuration requires ordering a specific power cable (catalog# E4504FN).

Maintain productivity, improve reliability

Reliable power for critical systems
The 9SX offers the robust double-conversion, online power protection needed for medical, light industrial, automation and mission critical IT applications. With zero transfer time to battery, continuous filtering of power, and an internal, automatic static bypass, the 9SX ensures performance and compatibility.

* Maintains system's host computer and operator's workstation power for ~8 minutes after loss of power
* Minimizes loss of data
* Provides clean constant voltage power
* Host computer and operator's workstation electronics unaffected by under voltage, brownouts, line sags, over voltage, transients, periodic emergency generator testing or automatic transfer switch operation
* Host computer and operator's workstation electronics protected from utility power factor capacitor switching spikes and ring waves
* Host computer and operator's workstation electronics protected from utility re-closer operations common during thunderstorms
* Regulates output voltage to meet and exceed system electronics requirements
* Allows time for an orderly system shutdown in the event of an extended power outage
* Reduces maintenance costs
* Helps increase system uptime
* Suitable for engine generator applications
* Suitable for mobile applications (other optional equipment may be needed)
* Installation of the UPS by GE
* 1-year warranty on parts and labor

Increased battery life
* Advanced battery management to extend battery life and provide advanced notice before batteries fail
* Batteries are hot-swappable

More control
* Automate power delivery by utilizing switchable, programmable outlets
* Programmable signal input through the RPO port also enables the UPS to change operating modes in reaction to external events

Advanced LCD interface
* Simplify UPS monitoring with Eaton's advanced LCD display
* Easy access to UPS alarm history, energy logs, unit serial numbers and firmware versions enable first time issue resolution right at the source
* Eight user-selectable languages ensure success for global deployments

Specifications
* Power: 700 VA / 630 W
* Input connection: 5-15P, eight feet long
* Output receptacles: (5) 5-15R
* Dimensions (H x W x D, in. / mm): 9.9 x 6.3 x 13.9 / 252 x 160 x 357
* Weight (lb. / kg): 26.5 / 11.5
General
* Topology: Double-conversion, online
* Configuration: Tower
* Color: Black and silver
* Diagnostics: Full system self-test at power up, ABM battery test every 30 days
* Warranty: 1 year on electronics and battery

* Remote power off: Remote On/Off (ROO) and Remote Power Off (RPO) rear terminal blocks
* Contents: UPS, Safety guide, Quick Start Guide, Reference Guide, RS-232 serial cable, USB cable

Electrical input
* Nominal voltage: 120V default (100/110/120/125V)
* Input voltage range:Full load: 100-138V, ?25% load: 60-144V
* Frequency: 50/60 Hz
* Frequency range: 60 Hz: 50-70 Hz, 50 Hz: 40-60 Hz
* Input power factor ?.99
* Input current distortion ?8%

Electrical output
* Power rating: 700VA / 630W
* Circuit breaker: None
* Nominal voltage: 120V default (100/110/120/125V)
* Output voltage regulation, steady state: ±2% nominal mode
* Output voltage THD (online): Linear: <3%
* Power factor: 0.9
* Efficiency (online mode with resistive load): 87%
* Transfer time: 0 ms

Communications
* User interface: Graphical display. UPS status in a single view.
* LEDs: 4 status-indicating LEDs
* Communication ports: RS-232 (RJ45) ports; USB port as standard (HID). 6-foot RS-232 and USB cables included

Environment & standards
* Operating temperature: 0 to 40 °C (32 to 104 °F) in Online mode, with linear derating for altitude
* Storage temperature: 0 to 35 °C (32 to 95 °F); without batteries: -25 to 55 °C (-13 to 131 °F)
* Relative humidity: 0 to 96% non-condensing
* Altitude operating temperature range: UP to 3,000 meters (9,843 ft) above sea level, no derating for 35 °C (95 °F) room temperature
* Audible noise: < 50 dBA at 1 meter typical
* RoHS compliance: Yes
* Safety conformance: UL 1778; IEC 62040-1
* EMC: FCC Part 15 Class B; IEC 62040-2 C1 & C2
* Markings: CE; cULus; NOM
* Battery backup time: 5.8 min@ 630 W, 14 min@ 300W

Line	Qty.	Catalog	
19	**1.00**	**E4504FN**	**Power cable for E4504FP MR Partial UPS**

NOTES:
• Customer is responsible for rigging and arranging for installation with a qualified party
• ITEM IS NON-RETURNABLE AND NON-REFUNDABLE
• Removal/disposal of the old unit is the customer's responsibility.

Application
E4504FN power cable is required when ordering E4504FP MR Partial UPS package.

Line	Qty.	Catalog	
20	**1.00**	**W0301MR**	**TIP MR 1.5T Training Program**

This training program is designed for customers purchasing a GEHC 1.5T 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 12 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 15 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	
21	**1.00**	**Y0000MR**	**LX/EXCITE/MR430s End of Service Life Discount Promotion**

Customer loyalty discount for replacement of LX/EXCITE/MR430s scanners approaching end of service life.

Line	Qty.	Catalog	
22	**1.00**	**S7529FY**	**SIGNA™WORKS AIR™ IQ EDITION AND HOST PC UPGRADE for Optima MR450w GEM**

The AIR™ IQ Edition of SIGNA™Works (MR29.1) enhances and expands workflow, acceleration, and clinical applications capability. This upgrade comprises the MR29.1 operating and imaging software plus the Dell T5820 Host PC needed for compatibility to deliver:

- SIGNA™Works AIR™ IQ Edition Workflow Enhancements
- SIGNA™Works AIR™ IQ Edition Acceleration Enhancements
- SIGNA™Works AIR™ IQ Edition Clinical Applications Enhancements

TECHNOLOGY FOUNDATION

The Dell T5820 upgrade delivers the host computing foundation needed for SIGNA™Works AIR™ IQ Edition (MR29.1). The Dell T5820 host computer utilizes the Scientific Linux operating system and enables simultaneous scanning, reconstruction, filming, post-processing, archiving, and networking with the new (MR29.1) software platform. This upgrade includes a new LCD monitor for the host computer.

SIGNA™WORKS AIR™ IQ EDITION WORKFLOW ENHANCEMENTS

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 SIGNA™Works AIR™ IQ Edition (MR29.1 software) delivers the foundational operating software, pulse sequence families, clinical applications toolkits, and visualization toolkits as well as acceleration and motion correction tools. The AIR™ IQ Edition of SIGNA™Works software features several new enhancements that improve Exam, Patient Setup and Scanning workflows:

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™ (Smart) 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

SIGNA™WORKS AIR™ IQ EDITION ACCELERATION ENHANCEMENTS

In addition to the workflow enhancements, the AIR™ IQ Edition introduces/expands AIR™ Recon smart reconstruction for 2D & 3D imaging for brain, MSK, body, cardiac, PROPELLER MB and DWI. (Please note that this is not AIR™ Recon Deep Learning which is sold separately.)

AIR™ (Smart) 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 compatibility expands with the AIR™ IQ edition to be compatible with a broad range of imaging sequences. (Please note that this is not AIR™ Recon Deep Learning which is sold separately.)

SIGNA™WORKS AIR™ IQ EDITION CLINICAL TOOLKIT ENHANCEMENTS

The SIGNA™Works clinical imaging tools are organized and optimized to address six clinical work areas: NeuroWorks, OrthoWorks, BodyWorks, OncoWorks, CVWorks and PaedWorks. 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.

The upgrade to SIGNA™Works AIR™ IQ Edition (MR29.1) adds to and enhances the performance of each SIGNA™Works toolkit.

The AIR™ IQ Edition adds to NeuroWorks:

- AIR™ (Smart) Recon smart algorithm for brain, MSK, body, cardiac, PROPELLER MB and DWI
- Cube flexibility for modifying/reducing scan time

The AIR™ IQ Edition adds to OrthoWorks:

- AIR™ (Smart) Recon smart algorithm for brain, MSK, body, cardiac, PROPELLER MB and DWI
- Dynamic phase correction for enhanced FSE imaging
- Cube flexibility for modifying/reducing scan time

The AIR™ IQ Edition adds to BodyWorks:

- AIR™ (Smart) Recon smart algorithm for brain, MSK, body, cardiac, PROPELLER MB and DWI
- Whole-Body automated multi-station localizer and auto pasting
- Whole-Body automated multi-station with FSE-IR, 3D SPGR and DWI (new for upgrades from MR27)
- Uniformity optimization for large FOV body diffusion
- SnapShot SSFSE multi-slice per breath-hold capability

The AIR™ IQ Edition adds to OncoWorks:

- AIR™ (Smart) Recon smart algorithm for brain, MSK, body, cardiac, PROPELLER MB and DWI
- Whole-Body automated multi-station localizer and auto pasting
- Whole-Body automated multi-station with FSE-IR, 3D SPGR and DWI (new for upgrades from MR27)
- Uniformity optimization for large FOV body diffusion

The AIR™ IQ Edition adds to CV Works

- AIR™ (Smart) Recon smart algorithm for brain, MSK, body, cardiac, PROPELLER MB and DWI
- Whole-Body automated multi-station localizer and auto pasting

The AIR™ IQ Edition adds to Paed Works:

- AIR™ (Smart) Recon smart algorithm for brain, MSK, body, cardiac, PROPELLER MB and DWI
- Cube flexibility for modifying/reducing scan time

Line	Qty.	Catalog

Line	Qty.	Catalog	
23	**1.00**	**M7111BE**	**MR450w PGR and PEN Upgrade for XG2 PGR Cabinet**

PGR and PEN Upgrade consists of an upgrade the following:

- PGR = Power Gradient Cabinet assembly
- PEN = Penetration Cabinet assembly (adjacent to the penetration wall)

Line	Qty.	Catalog	
24	**1.00**	**M7001DA**	**English Labels and Warning Sign Kit**

English Labels and Warning Sign Kit

Line	Qty.	Catalog	
25	**1.00**	**S7529DB**	**AIR™ Recon DL Package**

AIR™ Recon DL package is a pioneering, deep-learning based reconstruction algorithm applied to the raw scan data to improve SNR and image sharpness.
This propriety technique improves image quality at the foundational level by removing image noise and ringing artifacts while enabling shorter scan times.With AIR™ Recon DL, customers will be able to:

- Increase productivity by enabling shorter scan times
- Remove noise in the images through trained deep learning algorithms.
- Eliminate Gibbs and truncation artifacts with intelligent ringing suppression
- Experience TrueFidelity™ images that deliver sharper and clearer MR images
- Apply a tailored level of AIR™Recon DL based on preference
- Enable the most commonly applied 2D sequences without anatomical limitations without anatomical limitations
- Visualize AIR™Recon DL images directly at the MR console without reconstruction delays

Reconstruction performance today is challenged by explosive growth in data, and increased computational complexity. The amount of data to be stored and processed continues to increase with the advances in MR system technology. The Gen 7 DL Performance ICN Upgrade takes that challenge head-on with innovations in reconstruction to take full advantage of computing power and by leveraging both hardware and software technology. With over 128GB of memory, and 63,000 2D FFTs/second, the Gen 7 DL Performance ICN Upgrade delivers the advanced reconstruction you need.

Line	Qty.	Catalog	
26	**1.00**	**W0303MR**	**TIP MR Software Upgrade Training**

This training program is designed for customers purchasing an Advanced Software upgrade to a GEHC 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 6 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 8 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	
27	**1.00**	**NI_MR_PURC_SUPPLY**	$523,750 applied for SVSR quote #196-3. Trailer provided for a new mobile unit configured to the specifications for the GE SIGNA Voyager 1.5T MRI System.

Hardware and software items sourced directly from 3rd parties Comments

Total Quote Subtotal: **$1,830,437.18**

Qty.	Credits and Adjustments	
1.00	**1.5T SIGNA EXCITE Trade-in**	**$-50,000.00**

Total Quote Net Selling Price: ***$1,780,437.18***

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

Trade-in Addendum to GE Healthcare Quotation

This Trade-In Addendum ("Addendum"), effective on **January 11, 2023,** between the GE Healthcare business identified on the Quotation and **OrthoCarolina Spine Center**/OrthoCarolina PA ("Customer"), is made a part of Quotation # **2009387565.5** ^ dated **January 11, 2023** ("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; (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; and (vii) for Trade-In Equipment that utilizes helium, ensuring sufficient helium for appropriate ramp down of the Trade-In Equipment.

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, which includes situations where helium levels at ramp down are insufficient and cause the Trade-In Equipment to quench – Customer is required to confirm for GE Healthcare the operability of the Trade-In Equipment prior to the deinstallation of the Equipment; or (iii) as a result of Customer's actions, deinstallation of the Trade-In Equipment does not occur within one year of the execution of this Trade-In Addendum or related Quotation. All other terms and conditions of the Quotation remain in full force and effect.

E. Trade-In Equipment:

Trade-In Equipment Mfr.	Model & Description	Quantity	System ID*	Trade-In Amount ($)
	1.5T SIGNA EXCITE Trade-in	1.00	704339MOB1	$-50,000.00

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# _____)†.

OrthoCarolina Spine Center

Signature: _____

Print Name: _____

Title: _____

GE Healthcare

Signature: _____

Print Name: _____

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).

& The Trade-In Amount is based on expected trade-in within one (1) year of execution of this Trade-In Addendum. If the Trade-In does not occur within such year, GE Healthcare may adjust the Trade-In Amount or decline to purchase the Trade-In Equipment as set forth in Section (D) herein.

January 11, 2023
Quote Number: **2009387565.5**
Customer ID: **5472**
Agreement Expiration Date: **12/30/2022**

GPO Agreement Reference Information

Customer:	OrthoCarolina Spine Center
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:
XR0918-Ultrasound

LCS:
CE2512 (Anesthesia), CE7633 (Monitoring), CE3333 (Infant Care), CE7621 (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.

From: Waller, Martha K
To: Stancil, Tiffany C
Subject: FW: [External] Attached Correspondence [WMIMAN-IWOVRIC.FID2500658]
Date: Tuesday, January 31, 2023 4:03:56 PM
Attachments: MRI Replacement.pdf

Sorry, re-send with it…

From: Heath, Joy <jheath@williamsmullen.com>
Sent: Tuesday, January 31, 2023 2:46 PM
To: Waller, Martha K <martha.waller@dhhs.nc.gov>
Subject: [External] Attached Correspondence [WMIMAN-IWOVRIC.FID2500658]

Ms. Waller,

Please find attached correspondence submitted on behalf of my client OrthoCarolina, PA. I am sending this only via email to you - if I need to send this in any other fashion, please let me know.

I would appreciate an acknowledgement of receipt. Please don't hesitate to be in touch if anything further is required. Thank you, as always, for your attention and assistance.

Joy

Joy Heath (she/her)
Attorney
T 919.981.4001 | C 919.559.3904
email | v-card | website | LinkedIn

301 Fayetteville Street, Suite 1700 | P.O. Box 1000 (27602) | Raleigh, NC 27601
