



APPLICATION FOR CERTIFICATE OF NEED

**Missouri Delta Medical Center
Sikeston, MO**

**PROJECT #6135 HT
Replace MRI 1.5T**

**Submitted To
Missouri Health Facilities Review Committee
on
January 10, 2025**



Certificate of Need Program
EQUIPMENT REPLACEMENT APPLICATION
 Applicant's Completeness Checklist and Table of Contents

Project Name: _____ Project No: _____

Project Description: _____

Done Page N/A Description

Divider I. Application Summary:

- _____ 1. Applicant Identification and Certification (Form MO 580-1861)
- _____ 2. Representative Registration (From MO 580-1869)
- _____ 3. Proposed Project Budget (Form MO 580-1863) and detail sheet with documentation of costs.

Divider II. Proposal Description:

- _____ 1. Provide a complete detailed project description, CON project number of the existing equipment (if prev. CON approved), and include the type/brand of both the existing equipment and the replacement equipment.
- _____ 2. Provide a listing with itemized costs of the medical equipment to be acquired and bid quotes.
- _____ 3. Provide a timeline of events for the project, from CON issuance through project completion.

Divider III. Service Specific Criteria and Standards:

- _____ 1. Describe the financial rationale for the proposed replacement equipment.
- _____ 2. Document if the existing equipment has exceeded its useful life.
- _____ 3. Describe the effect the replacement unit would have on quality of care.
- _____ 4. Document if the existing equipment is in constant need of repair.
- _____ 5. Document if the lease on the current unit has expired.
- _____ 6. Describe the technological advances provided by the new unit.
- _____ 7. Describe how patient satisfaction would be improved.
- _____ 8. Describe how patient outcomes would be improved.
- _____ 9. Describe what impact the new unit would have on utilization.
- _____ 10. Describe any new capabilities that the new unit would provide.
- _____ 11. By what percent will this replacement increase patient charges.

(If replacement equipment was not previously approved, also complete Divider IV below.)

Divider IV. Financial Feasibility Review Criteria and Standards:

- _____ 1. Document that sufficient financing is available by providing a letter from a financial institution or an auditor's statement indicating that sufficient funds are available.
- _____ 2. Provide Service-Specific Revenues and Expenses (Form MO 580-1865) projected through three (3) **FULL** years beyond project completion.
- _____ 3. Document how patient charges are derived.
- _____ 4. Document responsiveness to the needs of the medically indigent.

Divider I. Application Summary:

- 1. Application Identification and Certification Form (Form MO 580-1861)**
 - a. See attached form.
- 2. Representative Registration (Form MO 580-1869)**
 - a. See attached form.
- 3. Proposed Project Budget (Form MO 580-1863) and Detail Sheet**
 - a. See attached form.



Certificate of Need Program

APPLICANT IDENTIFICATION AND CERTIFICATION

The information provided must match the **Letter of Intent** for this project, without exception.

1. Project Location (Attach additional pages as necessary to identify multiple project sites.)

Title of Proposed Project Missouri Delta Medical Center - MRI Replacement	Project Number #6135 HT
Project Address (Street/City/State/Zip Code) 1008 N. Main Sikeston, MO 63801	County Scott

2. Applicant Identification (Information must agree with previously submitted Letter of Intent.)

List All Owner(s): (List corporate entity.)	Address (Street/City/State/Zip Code)	Telephone Number
Missouri Delta Medical Center	1008 N. Main Sikeston, MO 63801	(573) 471-1600
(List entity to be licensed or certified.)		
List All Operator(s):	Address (Street/City/State/Zip Code)	Telephone Number
Missouri Delta Medical Center	1008 N. Main Sikeston, MO 63801	(573) 471-1600

3. Ownership (Check applicable category.)

- Nonprofit Corporation
 Individual
 City
 District
 Partnership
 Corporation
 County
 Other _____

4. Certification

In submitting this project application, the applicant understands that:

- (A) The review will be made as to the community need for the proposed beds or equipment in this application;
- (B) In determining community need, the Missouri Health Facilities Review Committee (Committee) will consider all similar beds or equipment within the service area;
- (C) The issuance of a Certificate of Need (CON) by the Committee depends on conformance with its Rules and CON statute;
- (D) A CON shall be subject to forfeiture for failure to incur an expenditure on any approved project six (6) months after the date of issuance, unless obligated or extended by the Committee for an additional six (6) months;
- (E) Notification will be provided to the CON Program staff if and when the project is abandoned; and
- (F) A CON, if issued, may not be transferred, relocated, or modified except with the consent of the Committee.

We certify the information and date in this application as accurate to the best of our knowledge and belief by our representative's signature below:

5. Authorized Contact Person (Attach a Contact Person Correction Form if different from the Letter of Intent.)

Name of Contact Person Ross Lasater	Title Director of Imaging & Cardiology
Telephone Number (573) 472-7341	Fax Number (573) 472-7337
Signature of Contact Person 	E-mail Address jlasater@missouridelta.com
	Date of Signature 12/09/2024



Certificate of Need Program

REPRESENTATIVE REGISTRATION

(A registration form must be completed for **each** project presented.)

Project Name Missouri Delta Medical Center - MRI Replacement	Number #6135 HT
-----------------------------------------------------------------	--------------------

(Please type or print legibly.)

Name of Representative Jason Schrupf	Title President, CEO
-----------------------------------------	-------------------------

Firm/Corporation/Association of Representative (may be different from below, e.g., law firm, consultant, other) Missouri Delta Medical Center	Telephone Number 573-471-7600
--------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------

Address (Street/City/State/Zip Code) 1008 N Main St. Sikeston, MO 63801

Who's interests are being represented?
(If more than one, submit a separate Representative Registration Form for each.)

Name of Individual/Agency/Corporation/Organization being Represented Missouri Delta Medical Center	Telephone Number (573) 471-1600
-------------------------------------------------------------------------------------------------------	------------------------------------

Address (Street/City/State/Zip Code) 1008 N. Main / Sikeston, MO 63801

Check one. Do you:

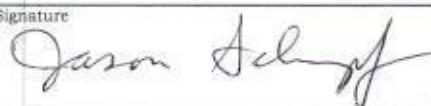
- Support
- Oppose
- Neutral

Relationship to Project:

- None
- Employee
- Legal Counsel
- Consultant
- Lobbyist
- Other (explain):

Other Information:

I attest that to the best of my belief and knowledge the testimony and information presented by me is truthful, represents factual information, and is in compliance with §197.326.1 RSMo which says: *Any person who is paid either as part of his normal employment or as a lobbyist to support or oppose any project before the health facilities review committee shall register as a lobbyist pursuant to chapter 105 RSMo, and shall also register with the staff of the health facilities review committee for every project in which such person has an interest and indicate whether such person supports or opposes the named project. The registration shall also include the names and addresses of any person, firm, corporation or association that the person registering represents in relation to the named project. Any person violating the provisions of this subsection shall be subject to the penalties specified in § 105.478, RSMo.*

Original Signature 	Date 12-9-24
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Certificate of Need Program

PROPOSED PROJECT BUDGET

Description

Dollars

COSTS:*

(Fill in every line, even if the amount is "\$0".)

- 1. New Construction Costs *** _____
- 2. Renovation Costs *** _____
- 3. Subtotal Construction Costs (#1 plus #2)** _____
- 4. Architectural/Engineering Fees _____
- 5. Other Equipment (not in construction contract) _____
- 6. Major Medical Equipment _____
- 7. Land Acquisition Costs *** _____
- 8. Consultants' Fees/Legal Fees *** _____
- 9. Interest During Construction (net of interest earned) *** _____
- 10. Other Costs *** _____
- 11. Subtotal Non-Construction Costs** (sum of #4 through #10) _____
- 12. Total Project Development Costs** (#3 plus #11) _____ ******

FINANCING:

- 13. Unrestricted Funds _____
- 14. Bonds _____
- 15. Loans _____
- 16. Other Methods (specify) _____
- 17. Total Project Financing** (sum of #13 through #16) _____ ******

18. New Construction Total Square Footage	_____
19. New Construction Costs Per Square Foot *****	_____
20. Renovated Space Total Square Footage	_____
21. Renovated Space Costs Per Square Foot *****	_____

* Attach additional page(s) detailing how each line item was determined, including all methods and assumptions used. Provide documentation of all major costs.

** These amounts should be the same.

*** Capitalizable items to be recognized as capital expenditures after project completion.

**** Include as Other Costs the following: other costs of financing; the value of existing lands, buildings and equipment not previously used for health care services, such as a renovated house converted to residential care, determined by original cost, fair market value, or appraised value; or the fair market value of any leased equipment or building, or the cost of beds to be purchased.

***** Divide new construction costs by total new construction square footage.

***** Divide renovation costs by total renovation square footage.

Divider II. Proposal Description:

1. Provide a Complete Detailed Project Description

Missouri Delta Medical Center is planning to replace their current MRI unit with a new unit in the Spring of 2025. The current Toshiba Titan 1.5T at Missouri Delta Medical Center was installed in 2012. It is now 12 years old and at the end of its useful life. The original CON for this unit is #4693 HT.

The project proposal is to replace the current unit with a GE Champion 1.5T machine. This will allow for higher quality imaging, reduction of artifacts, and faster scanning times. The replacement will create a better patient experience and allow for better outcomes. This project will include a new contrast injector, some minor construction to the existing area, and the rental of a Mobile MRI to be used during the installation of the new machine.

2. Provide a Listing with Itemized Cost of the Medical Equipment to Be Acquired

MRI Project Totals (see attached quotes):

Budget Item Description	Cost
GE Champion 1.5T	\$ 1,162,400.00
Bayer Medrad Experion Injector	\$ 40,745.00
Mobile MRI Rental	\$ 150,000.00
Total	\$ 1,353,145.00

3. Provide a Timeline of Events for the Project from CON Issuance Through Project Completion

Action	Timeline	Contractor
Site Visit	11/14/2024	Boulder/Facet Architect
Mobile MRI	2/17/2024-5/5/2025	Shared Medical Services
Old MRI Removal	2/17/2025-2/21/2025	Frisco Medical
Room Construction/Shielding	2/17/2025-5/5/2025	Boulder/Lindgren
MRI Delivery Install	04/21/2025-5/2/2025	GE/Boulder
Apps/Physicist Review	5/5/2025-05/09/2025	GE/Boulder
Mobile MRI Removal	05/05/2025	Shared Medical Services

III. Service Specific Criteria and Standards:

1. Describe the Financial Rational for the Proposed Price of the Equipment.

Missouri Delta Medical Center went through a competitive bidding process to allow multiple vendors to present their equipment. Through the use of our Group Purchasing Organization (GPO), Vizient, we were able to secure competitive pricing from multiple vendors. Once the process was completed, Missouri Delta Medical Center was able to save 20% off the original cost of the equipment.

2. Document That the Existing Equipment Has Exceeded Its Useful Life.

The existing MRI machine is currently in use. The equipment was purchased and installed in 2012. The American Hospital Association describes the useful life of an MRI unit as 5 years. The MRI to be replaced at Missouri Delta Medical Center is 12 years old.

3. Describe the Effect Replacement Will Have on Quality of Care.

The GE Signa Champion is a modern, wide bore system with artificial intelligence capabilities. The proposed MRI will use the latest software and hardware that GE has to offer. The image quality will be drastically improved. This will offer the Radiologist and ordering providers better tools to diagnose and treat patients and their outcomes. The reduced time this scanner offers will also help alleviate claustrophobic patients and allow scans to be completed at a quicker rate.

4. Document That the Existing Equipment is in Constant Need of Repair.

The current machine is on a monthly preventative maintenance (PM) schedule due to the age of the machine. The current machine does meet appropriate up-time measures but has experienced issues with coil quality over the past three years.

5. Document That the Lease on the Current Equipment Has Expired.

N/A. The existing MRI is not leased.

6. Describe the Technical Advances Provided by the New Unit.

- Air Recon DL
 - 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.
- Upgraded Coil Technology
 - Air Coils – providing comfort for patients by allowing for more flexibility while improving image quality.

7. Describe How Patient Satisfaction Would Be Improved.

Patient satisfaction will be vastly improved due to the faster scanning times for each body part. The GE Champion utilizes the AIR Recon DL software to improve image quality while also reducing the scan time. With faster scanning techniques, patient appointment times can be reduced to 30 minutes appointment times to increase access for outpatient scanning, thus reducing the wait for MRI's. As mentioned before, claustrophobic patients will be better accommodated due to the fast scan times.

8. Describe How Patient Outcome Would Be Improved.

- Compared to our current MRI machine, the image quality will be vastly improved, allowing for better diagnosis from the Radiologists to the ordering providers.
- Faster scan times will provide better access to outpatient MRI.
- Faster scan times will reduce the risk of artifacts for patients unable to hold still.

9. Describe the Effect It Would Have on Utilization.

Since this is a replacement unit, the utilization rate is only expected to slightly increase. This is due to providers within our network keeping patients at Missouri Delta Medical Center rather than sending patients for more specialized exams to another facility.

10. Describe Any New Capabilities the New Unit Would Provide.

The only new capability in which this new unit will provide is MRI Breast exams will now be available for providers to order.

11. By What Percentage Will This Increase Patient Charges.

This project will have no impact on patient charges.

**ENSURE REQUISITION/PURCHASE ORDER IS ISSUED TO:
 GE PRECISION HEALTHCARE
 TAX ID (83-0849145)**

 Missouri Delta Medical Center
 1008 N Main St
 Sikeston, MO 63801-5044

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 (including line/catalog details included herein) 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.

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:	Vizient Supply LLC
Terms of Delivery	FOB Destination
Billing Terms	80% on Delivery / 20% on Acceptance
Payment Terms	45 Net
Sales and Use Tax Exemption	Certificate on File
Total Quote Net Selling Price	\$1,162,400.00

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.

Missouri Delta Medical Center

Signature: Jason Schrupf

Print Name: JASON Schrupf

Title: President

Date: 8-7-2024

108892

Purchase Order Number, if applicable

GE Precision HealthCare LLC

Signature: Jason King

Title: Account Manager - VASO Mfr Rep

Date: July 3, 2024

Document Instructions

Please sign and return this quotation together with any Purchase Order(s) to:

Name: Jason King
 Email jason.king1@gehealthcare.com
 Phone: (501) 993-9884
 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

Missouri Delta Medical Center

Bill To: Missouri Delta Medical Center
 Ship To: Missouri Delta Medical Center

Addresses:

1008 N Main St, Sikeston, MO, US, 63801-5044
 1008 N Main St, Sikeston, MO, US, 63801-5044

To Accept This Quotation

- Please sign the quote and any included attachments (where requested).
- Source of Funds (choice of Cash/Third Party Loan 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).
- If your purchasing process requires a purchase order, please make sure it includes:
 - 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

Evidence of the agreement to contract terms. Either: (a) the quotation signature filled out with signature and P.O. number; or (b) Verbiage on the purchase order stating 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 # _____".

Catalog Item Details

Line	Qty.	Catalog			
1	1.00	Y0000LC	Pricing Non-Disclosure Language		
List Price			Discount		Net Price
\$0.00			0.00%		\$0.00

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	S7530GP	SIGNA™ Champion 1.5T 64ch		
List Price			Discount		Net Price
\$660,000.00			61.21%		\$255,986.97

The SIGNA™ Champion 1.5T 70cm wide-bore magnetic resonance system is designed to enable you to deliver clinical excellence, operational efficiency and patient comfort while addressing the cost of ownership for 1.5T wide-bore technology. With SIGNA™ Champion, 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.

S7530GP comprises the foundation system electronics and cabinet, magnet enclosures with front bridge and rear pedestal structure, ceiling kit, table pad kit, calibration phantoms, and Head-and-Neck array. This offering of SIGNA™ Champion also provides supplemental advanced applications and special AIR™ applications that further extend clinical capability and performance.

- TDI eXpress Head Neck Array and TDI RF-architecture
- SIGNA™Works Clinical Toolkit Extensions
- AIRx™ Auto Graphic Prescription
- AIR™ Recon DL

TDI eXpress HEAD NECK ARRAY AND TOTAL DIGITAL IMAGING

SIGNA™ Champion features the Total Digital Imaging RF-architecture with a 64-channel configuration. The TDI RF-architecture uses Direct Digital Transmit for enhanced stability and accuracy of the RF profile, and a Direct Digital Interface to convert the signal from each coil element to a digitized signal for high signal and low noise with extended dynamic range or gray scale.

- DDT Direct Digital Transmit for "digital out"
- DDI Direct Digital Interface for "digital in"

The 16-element TDI eXpress Head Neck Array (HNA) is designed to leverage the TDI RF-architecture and parallel imaging acceleration to enable high-SNR, high resolution imaging of the head, neck, and C-spine. In addition, the TDI eXpress Head Neck Array can be used in combination with the TDI eXpress PA (sold separately) and the TDI eXpress AA (sold separately) to aid productivity and seamless coverage of the Central Nervous system and abdomen. The anterior face attachment and lookout mirror can be removed for open-face imaging to aid patient comfort when appropriate.

- 16-element/channel
- Parallel imaging optimized
- Removable anterior face attachment
- Removable lookout mirror

SIGNA™Works CLINICAL TOOLKIT EXTENSIONS

The SIGNA™Works MR30.1 clinical imaging tools (sold and described separately) are organized and optimized to address six

clinical work areas: NeuroWorks, OrthoWorks, BodyWorks, OncoWorks, CVWorks and PaedWorks. This offering of SIGNA™ Champion extends the clinical utility and performance of these core toolkits with:

- eDWI enhanced diffusion with Multi-B value and SmartNEX
- 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
- 3D PROMO prospective motion correction for 3D Cube T2W, DIR and T2 FLAIR contrasts
- Inhance 2.0 non-contrast MRA suite (3D velocity, 2D inflow, inflow IR, and Deltaflow)
- TRICKS dynamic contrast enhanced, multiphase 3D MRA
- MAVRIC SL 3D FSE-based spectral imaging for MR-Conditional implants
- CartiGram T2 cartilage mapping
- IDEAL FSE 3-point Dixon fat-water separation
- Flex 2-point Dixon fat-water separation for 2D FSE, 3D Cube and GRE
- Cine IR fast gradient echo with IR-prep pulse
- 2D PS MDE phase sensitive tissue characterization with wide bandwidth suppression and single-shot
- FGRE Time Course
- Black Blood SSFSE single-shot FSE-based imaging with double IR and triple IR
- StarMap iron assessment for liver and heart (acquisition)

AIR™ IQ EDITION APPLICATIONS

In addition to the supplemental advanced applications for the clinical toolkits, this configuration of SIGNA™ Champion further expands and enhances clinical imaging capability with special AIR™ applications:

- AIRx™ Auto Graphic Prescription
- AIR™ Recon DL

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 slice 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.

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

PLEASE NOTE

The SIGNA™ Champion system requires several essential components that are sold and described separately. These elements include but are not limited to:

- SIGNA™ Champion Magnet, RF, and Gradient Assembly
- SIGNA™ Champion Low-Height Patient Table and TDI eXpress Posterior Array
- TDI eXpress or AIR™ Anterior Array
- SIGNA™Works MR30.1 Software and Clinical Applications Toolkits



July 3, 2024

Quote Number: 2010645775.10

Customer ID: 1-23KNBB

Quotation Expiration Date: 08/26/2024

- Host PC and Operator Console (GOC)
- Image Reconstruction Computer (ICN)

Line	Qty.	Catalog			
3	1.00	S7530HY	SIGNA™ Champion 1.5T Magnet with DPP - US		
List Price			Discount	Net Price	
\$870,000.00			61.21%	\$337,437.37	

1.5T Magnet:

- Manufactured by GE Healthcare.
- Operating field strength 1.5T (63.86 MHz).
- Active magnet shielding
- Zero boil-off Cryogenics.
- Magnet length 174cm.
- Magnet Weight 7,275 lbs (3,300 kg).
- Patient Bore Diameter 70cm.
- Maximum Field of View (x,y,z) 50 cm x 50 cm x 50 cm.

Magnet Homogeneity: Typical ppm and Guaranteed ppm shown.

- 10cm DSV 0.007 and 0.02.
- 20cm DSV 0.035 and 0.06.
- 30cm DSV 0.10 and 0.15.
- 40cm DSV 0.33 and 0.43.
- 45cm DSV 0.88 and 1.0.
- 48cm DSV 1.75 and 2.0.



- 50cm DSV 2.8 and 3.3.

DSV = Diameter Spherical Volume.

Fringe field (axial x radial):

- 5 Gauss = 4.0 m x 2.5 m.
- 1 Gauss = 5.8 m x 3.2 m.

UHE Gradient Technology:

The gradients of an MR system play a crucial role when it comes to imaging performance, throughput, and consistency during clinical practice. Gradient speed, accuracy, and reproducibility often determine the success of demanding acquisitions like diffusion imaging and Fiesta. SIGNA™ Champion introduces Ultra High Efficiency (UHE) gradient system that includes Intelligent Gradient Control technology. This novel technology enables the SIGNA™ Champion to deliver excellent TR and TE values that enable a superior clinical performance.

Gradient performance

- 35 mT/m - 140 T/m/s

Line	Qty.	Catalog			
4	1.00	M66022TA	MR 30.1 for SIGNA™ System Software		
				List Price	Discount
				\$85,000.00	61.21%
					Net Price
					\$32,968.02

MR 30.1 for SIGNA™ delivers the foundational operating software, pulse sequence families, clinical applications toolkits, and visualization toolkits as well as acceleration and motion correction tools. MR 30.1 for SIGNA™ software features several new enhancements that improve Exam, Patient Setup and Scanning workflows.

MR 30.1 for SIGNA™ is the latest platform software to bring the highest performance to SIGNA™ MR. MR 30.1 introduces several base security, workflow and image quality enhancements, as well as enabling GE Healthcare's the latest innovations in Deep Learning Reconstruction*. Each scanner running MR 30.1 Platform will enjoy industry-leading cybersecurity features* by upgrade to Secure Scientific Linux (SLES 15), enabling the latest features for securing the scanner against bad actors and other threats for years to come. MR 30.1 software brings in additional workflow efficiency, including a new Window Width/Window Level feature that applies consistent levels across all images in the database; simplified setup for Automatic Phase Correction; an improved phase correction algorithm for LAVA FLEX* images and a Motion Compensation option when using Cardiac T1-Mapping applications such as FIESTA. The system will also now support a system preference to set the orientation of axial Breast images. Systems already equipped with HyperSense* will see the feature expanded to support SWAN and Contrast Enhanced MRA applications. The MR 30.1 for SIGNA™ software release brings AIR™ Recon DL* 3D, motion-insensitive



PROPELLER and a host of additional applications such as DTI, FSE Flex, CartiGram, as well as phase sensitive MDE and MoCo MOLLI T1 mapping for cardiac imaging.

(* indicated applications may be purchasable options for certain regions and systems).

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

EXPRESS EXAM WORKFLOW

MR 30.1 for SIGNA™ workflow tools comprise the modality worklist, protocol libraries, workflow manager, auto-functions, inline viewing and inline processing. Together these tools are designed to help change the way you work by simplifying and accelerating the scanning process from set-up to acquisition to post-processing. With MR 30.1, 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, MR 30.1 workflow maintains the flexibility needed to rapidly adapt and optimize exams for specific patient situations.

MR30.1 Workflow delivers new capabilities that speed set-ups for all exams and streamline scanning for multi-station and combination exams. With MR30.1 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 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.

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.

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 MR 30.1 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.

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

MR 30.1 for SIGNA™ TECHNOLOGIES

The acceleration, motion correction and tissue suppression technologies in MR 30.1 for SIGNA™ 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

MR 30.1 for SIGNA™ delivers a suite of acceleration techniques designed to help address acquisition time.

- Smart Algorithm AIR™ Recon uses a smart reconstruction algorithm to address background noise and artifacts enabling

enhanced image quality without the need for longer scan times and is compatible with critical imaging sequences including PROPELLER MB, 3D Cube, and FSE.

- ARC parallel imaging reduces scan time by using an adaptive auto-calibrating (data-driven) technique to selectively acquire data. As a result, ARC enables smaller FOV prescription with less sensitivity to motion and 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 to create an image.
- Flexible No Phase Wrap reduces scan time by reducing the number of increments acquired to address wrap-around 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 Auto Body Navigators to enable usage for a broad range of exams. With MR 30.1 for SIGNA™, PROPELLER MB motion correction benefits from AIR™ Recon smart algorithm image quality.

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

MR 30.1 for SIGNA™ CLINICAL APPLICATIONS

MR 30.1 for SIGNA™ 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.

NeuroWorks Toolkit

- 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
- 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
- PSIR – Phase Sensitive Inversion Recovery
- 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)

OrthoWorks Toolkit

- FSE and frFSE fast spin echo imaging suites with dynamic phase correction
- High Bandwidth distortion reduction for FSE
- FatSat, STIR, SPECIAL, ASPIR, Spectral Spatial fat-suppression tools
- MARS High Bandwidth distortion reduction for FSE
- 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
- 3D COSMIC modified steady state imaging
- 2D/3D MERGE T2* multi-echo fast gradient echo imaging
- MENSA NERVE for optimized nerve contrast
- READYView post-processing

BodyWorks Toolkit

- 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
- 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 MRCP frFSE imaging
- 2D Fat Sat FIESTA fast steady state imaging

- Enhanced SSFSE Snapshot multi-slice imaging
- Whole-Body multi-station localizer and pasting
- Whole-Body multi-station FSE-IR, 3D SPGR and DWI imaging
- Multiphase DynaPlan
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring

OncoWorks Toolkit

- 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
- 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
- Whole-Body multi-station localizer and pasting
- Whole-Body multi-station FSE-IR, 3D SPGR and DWI imaging
- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL 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

CVWorks Toolkit

- 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 Time-Of-Flight & 2D Gated Time-of-Flight
- 2D/3D Phase Contrast & Phase Contrast Cine
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring
- 3D QuickStep automated multi-station imaging
- READYView post-processing

PaedWorks Toolkit

- 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
- Auto Navigators diaphragm tracker free-breathing scanning
- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL for dynamic or single-phase imaging (breath-hold or free-breathing)
- 3D LAVA GRE 2-point Dixon fat-water separation for dynamic or single-phase imaging (breath-hold or free-breathing)
- Enhanced SSFSE Snapshot multi-slice imaging
- BrainStat GVF and AIF parametric maps
- READYView and BrainView post-processing

READYView Advanced Visualization

READYView is an MR 30.1 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			
5	1.00	M70085AB	SIGNA™ Host PC and Operator Console		
List Price		Discount		Net Price	
\$50,000.00		61.21%		\$19,392.95	

The Host Dell T5820 GOC Upgrade delivers the next generation reconstruction engine, core pulse sequences, applications and imaging options as well as workflow enhancements and visualization tools to enable high productivity with exceptional image quality through optimized toolkits.

Line	Qty.	Catalog			
6	1.00	M71080MX	Gen 7 DL Performance ICN		
List Price		Discount		Net Price	
\$62,500.00		61.21%		\$24,241.19	

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			
7	1.00	M66122SP	SIGNA™ Champion Cooling Cabinet (ICC) Assembly - US		
List Price		Discount		Net Price	
\$125,000.00		61.21%		\$48,482.38	

SIGNA™ Champion Cooling Cabinet (ICC) Assembly

Line	Qty.	Catalog			
8	1.00	M60122AT	F50SH Compressor for Cooling Type 2: 380/400/415 V, 50 Hz; 460-480 V, 60 Hz - US		
List Price		Discount		Net Price	
\$41,000.00		61.21%		\$15,902.22	

F50SH Compressor for Cooling Type 2 for site with supplied chilled water or with 20kW local chiller.

Line	Qty.	Catalog			
9	1.00	M66122PC	Wired Gating Site Kit - US		

List Price	Discount	Net Price
\$37,290.00	61.21%	\$14,463.26

Wired Gating Site Kit - US

Line	Qty.	Catalog	
10	1.00	M66022LL	SIGNA™ Champion Low-Height Fixed Table
List Price			Discount
\$83,844.00			61.21%
			Net Price
			\$32,519.65

The SIGNA™ Champion offers fully integrated patient table solution, which features the embedded Posterior Array, helps to improve exam efficiency, and patient comfort. The low height fixed table can be lower to very low heights for easy and fast transfer of wheelchair patients.

Line	Qty.	Catalog	
11	1.00	M70072GA	Gradient Cable Kit Placeholder - Scan Room
List Price			Discount
\$9,000.00			61.21%
			Net Price
			\$3,490.73

Gradient Cable Kit Placeholder - Scan Room

Line	Qty.	Catalog	
12	1.00	M6001AA	Vent Adapter, Standard 8" Straight Up
List Price			Discount
\$0.00			0.00%
			Net Price
			\$0.00

Vent Adapter, Standard 8" Straight Up

Line	Qty.	Catalog	
13	1.00	M70022MC	Main Disconnect Panel - 380V/400V/415V/480V 50/60Hz
List Price			Discount
\$12,000.00			20.00%
			Net Price
			\$9,600.00

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

Line	Qty.	Catalog	
14	1.00	M1000MW	Operator Console Table
List Price			Discount
\$2,550.00			61.21%
			Net Price
			\$989.04

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



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Customer ID: 1-23KNBB

Quotation Expiration Date: 08/26/2024

Line	Qty.	Catalog			
15	1.00	M7007NB	AIR AA MCQA PA Coil Phantom Positioner		
				List Price	Discount
				\$8,000.00	61.21%
					Net Price
					\$3,102.87

AIR AA MCQA PA Coil Phantom Positioner

Line	Qty.	Catalog			
16	1.00	M50002MG	English Language Kit		
				List Price	Discount
				\$0.00	0.00%
					Net Price
					\$0.00

English Language Kit

Line	Qty.	Catalog			
17	1.00	R34023AC	Standard Service License		
				List Price	Discount
				\$0.00	0.00%
					Net Price
					\$0.00

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			
18	1.00	M7006NA	1.5T 16-channel AIR Anterior Array		
				List Price	Discount
				\$121,154.00	61.21%
					Net Price
					\$46,990.67

The 16-channel AIR Anterior Array (AA) is the next generation anterior array coil that allows flexibility in any direction to conform to the patient's anatomy. Based on the innovative AIR™ Coil technologies, the 1.5T 16ch AIR AA provides excellent image quality and acceleration performance, while improving the overall patient and user experience. The coil has been designed to adapt to various patient shapes and sizes, expanding positioning versatility.

Line	Qty.	Catalog			
19	1.00	M5000CE	1.5T 8Ch Breast Array		
				List Price	Discount
				\$50,500.00	61.21%
					Net Price
					\$19,586.88

1.5T 8Ch Breast Array

Line	Qty.	Catalog			
20	1.00	M6000CA	1.5T 8ch Wrist Coil		
				List Price	Discount
				\$45,000.00	61.21%
					Net Price
					\$17,453.66

The 1.5T 8-Channel Wrist Coil generates high-definition MR wrist images. The one-piece, ovoid hinged design is optimal for small-FOV imaging and provides good S/I coverage. The coil can be positioned overhead or at the patient's side, vertically or horizontally. The coil is optimized for ASSET imaging to improve acquisition times.

Line	Qty.	Catalog	
21	1.00	M7001NL	1.5T 16-Channel T/R Knee Array
List Price		Discount	
\$80,000.00		61.21%	
		Net Price	
		\$31,028.72	

The 1.5T 16-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.

Line	Qty.	Catalog	
22	1.00	M7001NM	1.5T 8-Channel TDI Foot/Ankle Array
List Price		Discount	
\$40,000.00		61.21%	
		Net Price	
		\$15,514.36	

The 1.5T Foot/Ankle Array produces high-resolution images of the foot and ankle by incorporating an 8-channel phased array design in a unique "ski" boot design. The unique coil design has excellent distal coverage and supports multiple foot positions for optimizing studies. Parallel imaging is supported to reduce acquisition times.

Line	Qty.	Catalog	
23	1.00	M7006YD	1.5T AIR™ Multi-Purpose Coil Medium with Positioners
List Price		Discount	
\$138,427.00		61.21%	
		Net Price	
		\$53,690.16	

A package includes 1.5T AIR™ Multi-Purpose (MP) Coil Medium with a coil positioner kit.

The 20-channel 1.5T AIR Multi-purpose (MP) Medium is the next generation multipurpose coil that allow flexibility in any direction to conform to the patient's anatomy. Based on the innovative AIR™ Coil technologies, the 1.5T AIR MP Medium provides good image quality and acceleration performance, while improving the overall patient and user experience. The coil has been designed to adapt various patient shapes and sizes, expanding positioning versatility. 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. Those are compatible with both AIR™ MP Coils Large and Medium for positioning.

Line	Qty.	Catalog	
24	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)
List Price		Discount	
\$12,900.00		20.00%	
		Net Price	
		\$10,320.00	

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



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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			
25	1.00	E8914DJ	Dimplex MR Heat Exchanger 36kW - Standard Ambient Temp, with 1 year warranty and 2 PMs		
List Price			Discount		Net Price
\$57,900.00			20.00%		\$46,320.00

GE Healthcare has partnered with the Glen Dimplex Group to offer chillers designed to meet the needs of your MR System.

This chiller is highly reliable and is verified to perform with GE Healthcare MR systems. As part of your integrated GE Healthcare solution, you'll work with a single contact throughout the whole installation. A Project Manager of Installation will help with building layout, room designs, delivery and installation - every step until your system is ready to scan. Our team will work seamlessly with architects, contractors and your internal team to help ensure timely, cost-effective completion.

Once your cooling system is running, you'll get fast, highly-skilled service support managed through GE Healthcare with the same quality and response time you expect from your MR system.

FEATURES AND BENEFITS

- Designed to provide stable fully dedicated cooling for your MR system's needs
- Water/glycol outdoor-air-cooled chiller to support your highest exam volumes and your full range of diagnostic procedures
- Installation support from the vendor includes: 1 start up, 2 preventative maintenance visits (during warranty), and 12 months of parts and labor warranty
- Installation support includes: support through GE's Project Manager of Install, GE's Design Center, remote technical support from the Glen Dimplex company
- Comprehensive and quality service rapidly delivered through our CARES service solution
- 70 gallons of water-glycol pre-mixture (50/50%)
- Remote display panel provides the ability to monitor the system's operation from the control room. When plugged into a LAN connection, system can be remotely monitored and diagnosed for proactive maintenance.
- Highly recommended that Vibration Isolation Spring Kit (E8914DP) be added for systems that will be rooftop mounted
- Environmental friendly and non-ozone harming refrigerant R407C

SPECIFICATIONS

- Net Cooling Capacity: 36 kW at 60Hz
- Coolant Outlet Temperature: 50 F (10 C)
- Max Coolant Pressure : 2.75 Bar
- Refrigerant: R407C
- Coolant: 50% water and 50% glycol with inhibitors
- Ambient Temp Range: -20 to 122 F (-28.89 to 50 C)
- Tank Capacity: 70 gallons (265 L)



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- Supply Voltage: 460v/3 phase /60 Hz
- Overall Size (L x W x H) 111 in x 31.5 in x 76.25 in
- Operational weight 2550 lb (1157 kg)

COMPATIBILITY:

- GE Signa Pioneer 3.0T MR system and GE Signa Voyager 1.5T MR system

NOTES:

- Chiller is non-returnable and non-refundable.

Line	Qty.	Catalog			
26	1.00	E8812CF	MR CCTV System with 17 inch LCD Monitor		
				List Price	Discount
				\$3,995.00	20.00%
					Net Price
					\$3,196.00

This MRI closed-circuit TV camera package allows for visual monitoring of your patients during their scans. Ceiling or wall-mounted fixed camera is unobtrusive and transmits high-quality color images in real time to the operator's console where a 17" TFT LCD monitor is located. Tested and approved by GE on a 3-Tesla magnet (camera and mount).

Includes:

- 17" TFT LCD color monitor
- Compact color camera with lens
- Signal interface box
- Exterior-mount power supply
- Mounting brackets for camera
- One set of cables: 10', 40', 100'
- MRI-conditional to 3-Tesla when installed by manufacturers' directions

Line	Qty.	Catalog			
27	1.00	E4504FP	Eaton Single Phase 700 VA Partial UPS (MR package)		
				List Price	Discount
				\$2,372.00	20.00%
					Net Price
					\$1,897.60

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, 725% 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 78%

Electrical output

- * Power rating: 700VA / 630W
- * Circuit breaker: None
- * Nominal voltage: 120V default (100/110/120/125V)

- * Output voltage regulation, steady state: $\pm 2\%$ 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			
28	1.00	E4504FN	Power cable for E4504FP MR Partial UPS		
				List Price	Discount
				\$79.10	20.00%
					Net Price
					\$63.28

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			
29	1.00	W2401MR	1.5T Launch Classic Training Program		
				List Price	Discount
				\$40,512.00	0.00%
					Net Price
					\$40,512.00

This training program is designed for customers purchasing a GE HealthCare 1.5T MR system (including but not limited to SIGNA™ Artist, Voyager, Creator, Explorer, Prime, Champion, and Victor).

GE HealthCare 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. The training will include Virtual Tools and remote connectivity. This blended curriculum with multiple delivery platforms promotes learner retention and allows for an efficient and effective skill development.

This program contains 96 Credits. A customized training program blending onsite and virtual training will be developed in partnership with your Applications Specialist.

- Onsite training – each onsite day of training utilizes 8 credits per instructor (8-hour day)
- Virtual training – each hour of virtual training utilizes 1 credit per instructor



July 3, 2024

Quote Number: 2010645775.10

Customer ID: 1-23KNBB

Quotation Expiration Date: 08/26/2024

- Virtual instructor-led training: Instructor leads a virtual training session one-on-one or in a group, typically in 2-4 hour scheduled blocks
- Answerline Support-Access to GE HealthCare experts for clinical, non-emergency applications assistance via phone or by using the iLinq button on the imaging console
- In addition to the credits available with this offering, the customer has access to the complimentary, no-cost online educational content available for all customers, both CE and non-CE.

Classroom-Based training (if applicable) – each seat in a classroom-based training (in person or virtual) utilizes 16 credits per student (ala carte offerings are available).

Training will be delivered at a mutually agreed upon time between the customer and GE Healthcare (excluding GE Healthcare holidays and weekends) and is subject to availability during normal business hours (8am-5pm). This training program has a term of twelve (12) months commencing on Acceptance, where all training (onsite and/or virtual) must be scheduled and completed within twelve (12) months of Acceptance. Additional credits may be available for purchase separately.

All GE HealthCare "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			
30	1.00	E4582AF	Riello UL UPS MHT 100 kVA, three phase, 10 min runtime, including commissioning, SNMP card, 2 years of warranty. 100 kVA includes a side cabinet for Top cable entry. Includes battery cabinet		
				List Price	Discount
				\$70,000.00	20.00%
					Net Price
					\$56,000.00

Line	Qty.	Catalog			
31	1.00	NI_MR_INS TALLATION	\$21,250 is applied to 3rd-Party Rigging Services, as directed by Customer. Rigging (including excess/additional rigging costs) remains the Customer's responsibility. Unapplied rigging funds will be forfeited without refund or credit.		
				List Price	Discount
				\$0.00	0.00%
					Net Price
					\$21,250.00

<p>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.</p>	
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Total Quote Subtotal: \$1,162,400.00

Total Quote Net Selling Price: \$1,162,400.00

**ENSURE REQUISITION/PURCHASE ORDER IS ISSUED TO:
GE PRECISION HEALTHCARE
TAX ID (83-0849145)**

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>

GPO Agreement Reference Information

Customer:	Missouri Delta Medical Center
Contract Number:	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 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, XR0652-Mammo, XR0895-PET-CT, XR0895-Nuc Med, XR0715-R&F/RAD & XR0592-ICAR-EP/HEMO, XR0692-BMD

Ultrasound:

XR0918-Ultrasound

LCS:

CE7152(Anesthesia), CE7633 (Monitoring), CE3333 (Infant Care), CE7621 (DCAR) and XR0592 (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.

Quotation

Sales Support
tel (800) 633-7231
fax (412) 406-0952
radiologysolutions.bayer.com

Issue PO to:
Bayer HealthCare LLC
1 Bayer Drive
Indianola, PA 15051



Quote No. Q-00079088

This quotation has been prepared for: Missouri Delta Medical Center

Issued on 7/3/2024

Valid until 1/31/2025

Trade-in required No

Your Bayer Sales Team:

Kevin Green, , kevin.green2@bayer.com

Quotation Overview

HPG - EQUIPMENT Pricing Applied

Shipment dates are subject to change as materials and components may be impacted by shortages and/or delays caused by the global pandemic.

Bayer's diagnostic imaging products, software, and equipment service help healthcare teams in radiology address their critical performance, quality, uptime, and scheduling requirements.

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

>See [Products and Services Details](#) in this quote, or refer to your invoice, for an itemized breakdown of quoted products.

Imaging Products and Services

Product Name	Total List Price	YOUR PRICE
MRXperion - Medrad® MRXperion™ MR Injection System(s) and Related Products/Services	\$61,000.00	\$41,541.00
TOTAL (Local taxes, shipping and/or handling to be invoiced when applicable)	\$61,000.00	\$41,541.00



Products and Services Details

MRXperion - Medrad® MRXperion™ MR Injection System(s) and Related Products/Services

MRXperion™ Injector System

Item(s)	Catalog No.	Qty	Unit List Price	Contracted Price	YOUR PRICE
Medrad® MRXperion® MR Injection System	MRXP 200	1	\$54,950.00	\$37,180.00	\$37,180.00
Installation - Medrad® MRXperion MR Injection System	INS MRXP	1	\$2,772.00	\$2,400.00	\$2,400.00
Penetration panel kit - Medrad® MRXperion MR Injection System	84680761	1	\$2,888.00	\$1,690.00	\$1,690.00
2 syringes per kit (115 mL/65 mL), large & small spike, 96" LPCT with T-con and check valve - 20 kits/box	XP 65/115VS	1	\$390.00	\$271.00	\$271.00

Subtotal					\$41,541.00
TOTAL					\$41,541.00
GRAND TOTAL (Local taxes, shipping and/or handling to be invoiced when applicable)					\$41,541.00



VirtualCARE Remote Support Acknowledgement

Please note, VirtualCARE® is available for most MEDRAD® Injection Systems. Please discuss any possible exclusions or capability limitations with your Sales Representative.

I acknowledge VirtualCARE® Remote support as an entitlement of our injector warranty and agree to the install at the time of the injector install.

IT Contact Name

Phone

Email

Type or write name

(000) 000-0000

Type or write email address

Customer Approver Name

Customer Approver Title

Type or write name

Type or write title

Customer Approver Signature

Date

X

Please print and sign

MM/DD/YY

I would like to opt out of VirtualCARE Remote Support.

Quotation

Sales Support
tel (800) 633-7231
fax (412) 406-0952
radiologysolutions.bayer.com

Bayer HealthCare LLC
1 Bayer Drive
Indianola, PA 15051



Quote No. Q-00079088

This quotation has been prepared for: **Missouri Delta Medical Center**

Issued on 7/3/2024

Valid until 1/31/2025

Trade-in required No

Your Bayer Sales Team:

Kevin Green, , kevin.green2@bayer.com

If you are using this quote as a purchase order, please complete the Acceptance and Billing information below:

Acceptance and Billing

Your signature below indicates your acceptance of this Agreement, including the terms and conditions included as part of this document. Please complete the information below, along with your Purchase Order referencing Quote # Q-00079088, and email this form to Sales Support at risalesupport@bayer.com AND your SC, Kevin Green, at kevin.green2@bayer.com.

If pricing and terms of this order are based on your current Group Purchasing Organization (GPO) affiliation, any change to your current affiliation may require a new quote or updated terms and pricing. If your organization is tax exempt, please notify Sales Support at 1-800-633-7231.

Payment terms

30 days due net

Terms of Delivery

SIKESTON

Customer contact

Address

1008 N Main St
Sikeston, MO 63801

Billing Information

1008 N Main St
Sikeston, MO 63801

Customer Number

171692

Phone

Additional Customer Comments

PO#

Write PO number

PO Amount

Write PO amount

Customer Approver

Write customer name

Customer Approver Title

Write customer title

Billing Email Address (if applicable)

Write email address

Customer Approver Signature

Please print and sign

Date

MM/DD/YYYY

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MOBILE MRI EQUIPMENT LEASE OVERVIEW

<u>LESSOR:</u>	<i>Shared Medical Equipment Group, LLC ("SMG")</i>
<u>LESSEE:</u>	<i>Missouri Delta Medical Center ("MDMC") Sikeston, MO</i>
EQUIPMENT:	Parked Mobile GE Voyager 1.5T, 70cm Bore MRI System housed in a Kentucky Trailer. Equipment Is Subject to Availability.
TERM:	Three (3) Month Minimum Rental Delivery Date: TBD Start Date: TBD
FEE:	\$49,900.00 per month without a technologist (plus sales tax, if applicable)
TRANS:	MDMC is responsible for transportation costs of \$3,500 to the site.
NOTE:	Applications training can be provided for an additional daily fee provided notice is given two weeks prior to delivery. An Applications Training Fee, for services requested, will be billed separately at the all-inclusive rates as follows: Day 1: \$2,200, Day 2: \$2,000, Day 3+: \$1,600 (ex. 2 days \$2,200 + \$2,000 = \$4,200).

SMG WILL PROVIDE:

- The Equipment described above. See attached specifications.
- Standard OEM Service on Equipment Monday – Friday 8am – 9pm, excluding holidays
 - **Hard Down Coverage 24/7**
 - **PM's Performed Quarterly During Extended Service Coverage Hours**
 - **Cryogenics**
- Cyber Liability Insurance
- Transportation of Equipment To and From Site
- Equipment Set Up

MDMC WILL PROVIDE:

- MRI Technologist
- Pad for Parking Scanner with Tractor/Trailer access
- 480v 3ph 150A Electrical Power w/ Russell Stoll Connection
- Telephone / Network Connections
- All Useable or Consumable Goods (film, contrast, linen, etc.)
- Radiologist who will Provide General Supervision and Patient Care
- Scheduling, Delivery and Retrieval of Patients and Safety Code Compliance
- Patient Record Keeping
- Onetime \$350.00 Housekeeping Fee
- Insurance for Equipment, Facility Staff and Patients

The information contained in this overview is strictly for informational purposes only and does not obligate either party in any manner to any contractual obligations. This proposal is valid for 30 days.

Date: December 10, 2024

CONFIDENTIAL



GE SIGNA Voyager 1.5T

WIDE BORE

33 Channel MR System

Hardware

- SIGNA Voyager 1.5T MR System with 33 Channel Total Digital Imaging Receive Technology
- 70 cm Wide Bore
- Ultra-High Efficiency Gradient System
- Digital Surround Technology
- Quiet Technology (Acoustic Reduction Technology)
- Comfort Plus Patient Table (550 lbs maximum weight)

Software

- Advanced Spine & MSK Expert Package: IDEAL & FLEX, Cartigram, PROPELLER 3.0 motion robust radial FSE, 3D Cube 2.0, Spin Echo & Fast Spin Echo Suites, Gradient Echo & Fast GRE Suites, 3D COSMIC, 2D/3D MERGE, High Bandwidth FSE artifact reduction, Spectral Spatial Fat Suppression.
- Advanced Neuro Package: PROPELLER 3.0 motion with FSE DWI, 3D Cube 3.0 with Cube DIR, READY Brain, Spin Echo & Fast Spin Echo Suites, T-1 FLAIR & T2-FLAIR Suite, Gradient Echo & Fast GRE Suites, Spoiled Gradient Echo & Fast SPGR Suites, Echo Planar, EPI FLAIR & fMRI EPI Suites, EchoPlus with Single Echo and RTFA diffusion imaging, DWI Prep, 3D FIESTA & 3D FIESTA-C, 3D BRAVO, 3D COSMIC, 2D/3D MERGE, PROBE PRESS & STEAM, BrainSTAT GVF and AIF parametric maps
- Advanced Body Package: Lava Flex, Auto Navigators, PROPELLER 3.0 motion robust radial FSE, Spin Echo & Fast Spin Echo Suites, Gradient Echo & Fast GRE Suites, 3D LAVA T1 DCE imaging with Turbo ARC, 2D/3D Dual Echo Fat-Water Imaging, 3D FRFSE MRCP HYDRO imaging, Enhanced SSFSE single-shot FSE imaging, 2D FS FIESTA, Multi-phase DynaPlan, SmartPrep, Fluoro Trigger, Respiratory Compensation, Gating & Triggering, iDrivePro & iDrive Pro Plus, SPECIAL IR Fat Saturation, Auto Protocol Optimization
- Advanced Cardiac Package: Double-Triple IR-FSE, FastCine FGRE-based, gated multi-phase imaging, 2D FIESTA, 3D FS FIESTA, iDrivePro Plus, Blood Suppression, Cardiac Navigator diaphragm tracker, Cardiac Compensation, Gating & Triggering, Respiratory Compensation, Gating & Triggering, Cine Paging
- Vascular Expert Package: Inhance Suite 2.0, TRICKS, Flow Analysis, Auto Navigators, 2D/3D Time-Of-Flight & 2D Gated Time-Of-Flight, 2D/3D Phase Contrast & Phase Contrast Cine, SmartPrep, Fluoro Trigger, Magnetization Transfer & Flow Compensation, Peripheral & EKG Gating & Triggering, Respiratory Compensation, Gating & Triggering
- Advanced Post Processing: SCIC & PURE surface coil intensity correction, Multi-Planar Volume Reformat, Interactive Vascular Imaging, ClariView Image Filtering, Compare Mode & Reference Image, Cine Paging
- Advanced Applications: ARC & turbo ARC data-based parallel acceleration, ASSET 3.0 image-based parallel acceleration, Real Time Field Adjustment for DWI, DWI Prep for diffusion imaging, Chemical Shift Direction Selection, 2D/3D GradWarp compensation, Acoustic Reduction Technology, IR Prep, DE Prep & T2 Prep, Full Echo Train & Tailored RF, SPECIAL IR, ASPIR, Spectral Fat Suppression, Matrix ZIP, 3D Slice, Square Pixel & Rectangular FOV, No Phase Wrap & No Frequency Wrap, Extended Dynamic Range





WHY GE SIGNA® VOYAGER 1.5T WIDE BORE?

Enter a whole new realm of possibility in MR with the new SIGNA Voyager. This system is designed to maximize productivity and work flow while delivering extraordinary clinical potential and exceptional patient comfort.

Built on the latest GE MR platform, the SIGNA Voyager offers a wide range of advanced clinical functionality, making it a workhorse 1.5T system for practices of various sizes and specialties.

SIGNA Voyager: Skyrocket your MR performance.

Accessories

- MR Accessories Package and Positioning Kit
- Connect Pro - Modality Work list server
- Magnacoustics Genesis ULTRA Communication & Music System

Surface Coils

TDI Coil Suite: The Total Digital Imaging Suite of coils is designed to enhance patient comfort and image quality while simplifying workflow. The Coil Package includes:

- Integrated T/R Body Coil
- TDI Posterior Array
- TDI Head Neck Unit
- Anterior Array
- Flex Array Package (SM, MD & LG)
- Flex Array Positioner & Pad Kit
- Knee Phased Array
- Shoulder Phased Array

Coils included in Configuration

TDI Coil Suite

The TDI Coil Suite consists of a set of receive-only RF arrays designed for use with the SIGNA Voyager 1.5T MR system. TDI stands for Total Digital Imaging.

The Suite is indicated for use for: head, neck, brachial-plexus, spine, pelvis, hips, prostate, abdominal, cardiac, lower extremities, blood vessels, and long bone imaging. The combined use of the entire TDI Coil Suite will facilitate high-resolution, high-SNR whole-body imaging from the top of the head down to the feet.

TDI Posterior Array (PA)

The TDI Posterior Array is the first coil to include the Digital Micro Switch (DMS) which enables it to achieve ultra-fast coil switching to enable a platform for “zero-TE” imaging capability and further expansion of SilentScan capability. To simplify the workflow for the technologist and increase efficiency, the system will automatically select the appropriate subset of coil elements based upon the prescribed field-of-view. Whole body imaging is supported.

TDI Head Neck Array (HNA)

The TDI HNA is a standard component of the TDI Coil Suite. The HNA consists of 3 imaging components: a head base-plate, an anterior neuro-vascular face-array, and the open face adapter.

The open-face design provides a patient-friendly feel. The base plate may be used with the open face adapter to accommodate cervical spine exams in large or claustrophobic patients or for patients with intubation. Improved access and patient comfort may be achieved through elevation of the superior end of the coil. The HNA with anterior NV Face-Array consists of 21 elements arranged to provide parallel imaging support in all 3 planes. The HNA also includes a flexible bill for coverage of aortic arch while also delivering high patient comfort.

1.5T Anterior Array (AA)

The 1.5T Anterior Array is a standard component of the TDI Coil Suite that facilitates chest, abdomen, pelvis, and cardiac imaging with the TDI RF coil suite. The Anterior Array is lightweight, flexible, thin and pre-formed to conform to the patient's size and shape. With 54 cm of S/I coverage, the coil permits upper abdominal and pelvic imaging without repositioning the patient. The 16 element electrical



design supports parallel imaging in all 3 planes. Two Anterior Arrays can be combined to deliver extended coverage with abdomen imaging and for run-off studies.

Flex Coil Suite

The Flex Coil Suite is a versatile set of high density 16ch coils designed to give high quality images in a wide range of applications. The high degree of flexibility is particularly advantageous when imaging patients that do not fit the constraints of rigid coils, improving the patient and technologist experience, and enabling most exams to be completed with the same level of image quality expected from dedicated coils.

The coils include Small, Medium, and Large. The full Flex Suite is intended to cover a broad range of muscular skeletal applications, including upper and lower extremities of hand, wrist, elbow, shoulder, knee, ankle, and foot.

Component	Coverage (WxL)	Wrap Diameter	Elements	Weight
Flex Coil, L	23cm x 71cm	15.5cm-21.5cm	16	1.2kg
Flex Coil, M	23cm x 57cm	11.5cm-15.5cm	16	0.9kg
Flex Coil, S	23cm x 44cm	9.0cm-12.5cm	16	0.9kg

RF Coils and Arrays

Knee Phased Array

- The 16-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.

Shoulder Phased Array

- 3-channel phased-array coil
- Sleeve design. Comprehensive shoulder imaging
- Homogeneous penetration of humeralhead and neck, rotator cuff, glenoidlabrum, acromium process andglenohumeral articular surfaces

Software Upgrades included in Configuration

Vascular Expert Package

Inhance Suite 2.0

The Inhance Suite application consists of several sequences designed to provide high-resolution images of the vasculature with short-acquisition times and excellent vessel detail. These sequences include: Inhance Inflow IR: Inhance Inflow IR is an angiographic method, which has been developed to image renal arteries with ability to suppress static background tissue and venous flow. This sequence is based on 3D FIESTA, which improves SNR, as well as produce bright blood images.

Inhance 3D Velocity: Inhance 3D Velocity is designed to acquire angiography images in brain and renal arteries with excellent background suppression in a short scan time. By combining a volumetric 3D phase contrast acquisition with parallel imaging, efficient k-space traversal, and pulse sequence optimization, Inhance 3D Velocity is capable of obtaining complete Neurovascular imaging in 5-6 minutes.

Inhance 3D Deltaflow is a 3D non-contrast enhanced MRA application for peripheral arterial imaging. Inhance 3D Deltaflow is based on 3D Fast Spin Echo technique and it utilizes the systolic and diastolic flow differences to help generate arterial signal contrast. A subtraction of the systolic phase from the diastolic phase images results in arterial only images, with venous and background suppression.

Inhance 2D Inflow: The Inhance 2D Inflow pulse sequence is designed to acquire angiography images of arteries, which follow almost a straight path, i.e. femoral, popliteal, carotid arteries, etc.

TRICKS

TRICKS provides high resolution multi-phase 3D volumes of any anatomy for fast accurate visualization of vasculature. With segmented complex data recombination, TRICKS can accelerate 3D dynamic vascular imaging without compromising spatial detail. TRICKS also uses elliptic centric data collection for optimized contrast resolution and auto-subtraction for optimized background suppression. The result is time course imaging that does not require timing or triggering, provides high temporal and high spatial resolution, and enables the extraction of optimum phases of data. As a result, TRICKS enables reliable, high quality vascular imaging.

Flow Analysis

Flow Analysis automates the review and analysis of gated phase contrast magnetic resonance (MR) images and generates a report for the referring physician. This version is available on the host computer. Flow Analysis has an automated edge detection algorithm that propagates through all the phases of the cine phase contract series. The flow analysis measurement tab displays a summary chart of peak velocities in addition to individual velocity results from each phase of the cardiac cycle. A background correction may also be applied which is particularly suited to slow flowing fluid such as cerebrospinal fluid. Customizable Macros are a feature of Flow Analysis 4.0. These Macros allow the user to quickly write a report specific to the patient being assessed with simple mouse clicks. The macros are customizable to reflect the language used by the reporting physician. Flow Analysis offers the capability to archive reports or cine images as seen in a DICOM format so they may be viewed on any DICOM viewer.



Advanced Body Package

LAVA Flex

LAVA Flex is a 3D FSPGR imaging technique that acquires fat/water in phase and out of phase echoes in a single acquisition. Up to 4 types of images may be reconstructed within one acquisition: in phase, out of phase, water only, fat only. The water only contrast differs from a conventional fat suppressed image in that an inversion prep pulse is not applied for fat suppression. In fact, the fat information is removed leaving a water only image that may potentially be used in place of a LAVA type image. LAVA Flex uses ARC (Autocalibrating Reconstruction for Cartesian sampling), a 2D self-calibrated parallel imaging technique that allows for acceleration in both phase and slice directions for supported coils.

MSK Expert Package

IDEAL & FLEX

The IDEAL acquisition and reconstruction methods can generate a water-only, fat-only, in-phase and out of phase data sets for clear tissue differentiation in a single series. In addition, susceptibility artifacts common to MR imaging such as incomplete or inaccurate fat saturation, and chemical shift can be eliminated as well. The IDEAL application acquires multiple echoes and uses unique reconstruction routines to generate the four image contrasts and correct for errors due to tissue susceptibility. IDEAL is ideally suited for imaging anatomical regions such as the brachial plexus, neck, spine, chest, foot, ankle, and axial where inhomogeneous magnetic fields may yield failures with traditional fat saturation techniques. IDEAL is compatible with Fast Spin Echo, 3D Gradient Echo and parallel imaging.

Cartigram

Cartigram is a non-invasive imaging method for early detection of osteoarthritis. It quantifies the T2 relaxation of knee cartilage and can overlay the quantified parametric maps over high resolution images for clear visualization of the anatomy. The imaging results are color mapped to indicate whether or not the cartilage structure is breaking down and, if so, to what extent. This information can be used to determine the best course of treatment for the individual patient. In addition, it can be used to monitor the cartilage post-treatment, obviating the need for follow-up arthroscopic surgeries or biopsies.

Kentucky Trailer Mobile Coach

Medrad MRI Power Injector



po box 779 | 2075 corporate circle
cape girardeau, MO 63702
ph: 573.332.1182 | fax: 573.651.0444

12/6/2024

MO Delta Medical Center
1008 N. Main Street
Sikeston MO 63801

Re: MRI Replacement

We propose to furnish the labor, material, equipment, and insurance, per permit drawing- project #2404294 dated 11/26/24 for the work as described below:

DESCRIPTION OF WORK:

We have included the following demolition:

- Brick wall removal and replacement, steel access panel removal.
- Roof pan decking removal for access above faraday shielding and access of HVAC and structural supports for quench vent stack. Flooring and required wall removal.
- Existing ACT grids and tiles.
- Disposal of all construction waste.

We have included the following:

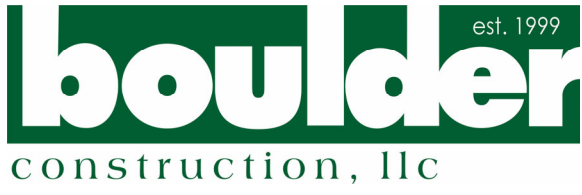
- Project management-coordination and supervision.
- All known electrical requirements.
- All HVAC and mechanical requirements including replacement of (3) electrical inline duct heaters.
- New painting and wall patching.
- New ACT ceilings with aluminum nonferrous grids
- New sheet vinyl flooring and base.
- New brick to closely match existing for MRI equipment access.
- New Spray foam insulation, soffit outer framing and sheeting Dryvit finish.
- New 60 mil TPO roof (Grey color) and metal copings with 20-year warranty.
(Fully adhered tapered foam system with (2) new roof drains.) existing copper gutter and downspouts to remain.
- Boulder to provide labor assistance with Lindgren installation needs.
- Boulder to provide roof protection during decking removal and structural support installation.
- New louvered bifold doors and aluminum frame.
- New laminate countertop and pencil drawers in the control room
- \$2,000.00 allowance for sprinkler piping and or head replacement.

EXCLUSIONS:

Negative air machines, taxes, any overtime work, (All work to be performed during regular business hours), MRI equipment installation. RF and Steel Plate Shielding upgrading, or degaussing.

\$840,492.00

Eight hundred and forty-thousand four hundred and ninety-two dollars 00/100



po box 779 | 2075 corporate circle
cape girardeau, MO 63702
ph: 573.332.1182 | fax: 573.651.0444

We thank you for the opportunity to submit this proposal.

Please call if you have any questions.

Sincerely,

Rick Draughon

Rick Draughon
Senior Project Manager

Accepted By: _____ Title: _____ Date: _____

SOUTH WESTERN REGIONAL OFFICE

1360 N. Wood Dale Rd • Wood Dale, IL 60191 • 630 912-1905 • Fax: 630 912-1915

Email - john.stanfield@ets-lindgren.com

Date: December 6, 2024

Bid Proposal: #147492-Upgrade
Revision: 00

Facet

12 Sunnen Dr. Suite 100
St. Louis, MO 63143

913-202-7015
913-302-8305

Attn: **Tony Morefield**
CC: **Brian Pansing**

Email: tony.morefield@thecdcompanies.com
Email: brian.pansing@thecdcompanies.com

Project	Location	Survey type:	System Affected:
Missouri Delta MC	Sikeston, MO	RF Shield Upgrade	GE 1.5T Signa Champion

ETS-Lindgren is pleased to submit the following pricing for the upgrade work:

Baseline RF Test Date	Completed via ETS SV82680 on 11/25/24
Architectural Plans Provided	FACET #2404294 dated 11/19/24
Magnet Plans Provided	GE #M400274-FIN-00-A dated 10/09/24
Existing Shield	ETS Shield S/N 21578-2003
Type Shield –	Modular Copper – Grout Floor
Existing MRI Philips 1.5T	GE 1.5T Signa Champion

Pre-Test – Completed via ETS SV82260 dated 11/19/24

Trip 1 – 1 Technician 2 days

- **GC** – to remove all interior finishes on area around door & magnet access location prior to ETS arrival on site.
- **ETS** - Remove the magnet access panels to facilitate magnet removal.
 - **½” Steel plate magnetic shielding removal is not by ETS.**
- Remove door.
 - **GC** responsible for disposal of old MRI door.
- **GC** - Agrees to provide support labor to assist ETS Technician in removal of the door. **Agreed:** _____
- If **GC** is not able or willing to provide support labor, ETS will send an additional Technician to the site for an additional cost of: **\$ 7,550.00 – Accepted:** _____

Trip 2 – 2 Technicians – 7 days

- Provide & Install new **EVO AS pneumatic RF Door** (see option 1 for door options)
- Provide GE patient table anchor. (Template for magnet foot layout and patient table anchor provided by GE.)
- Provide and install additional shield support hangers as needed.
- Provide and install **1ea GE cryogen** waveguide vent. (as required) Additional cryogen penetrations are not included in the base price and will need to be identified and priced as a change order.
- Modify shielding to accommodate **GE** penetration panel configuration
- Provide & install GE blower box access & anchors.
- Provide & install new **24/24 Emergency Pressure Relief Vent**. (field locate)
- Provide & install **1ea 30amp** power filter for **exhaust fan** switch.
- Provide & install **3ea 30amp** power & **2ea 1A dimmer filter** for LED light Circuits.
- Repair/infill old magnet penetration openings.
- Replace Magnet Access panels for testing.
- Continue testing & repair as possible to bring the shielding up to GE Specification. (See Points of Clarification Note 6)
- Perform Qualification testing of all repairs.
- Remove magnet access to allow for delivery of new GE MRI.

Trip 3 – 1 Technicians 1 day.

- Replace magnet access panels after new MRI delivery.
- Provide final RF verification test of the completed installation to confirm RF shield performs equal to or better than the initial RF diagnostic baseline test.

NOTE: The existing shielding has ½” plate steel on the Rear, Right, & Front walls. ETS-Lindgren is not responsible for removal or replacement of magnetic shielding.

Note 1: Some plate steel cutting may be required to modify the shield to accommodate GE required components.

Price for the above stated work:

Sub Total	\$72,375.00
Total Estimated Tax amount	\$2,785.00
Total Bid	\$75,160.00

Price does not include tax. A tax-exempt certificate will be required at the placement of the order.

All labor associated with the RF components to be re-worked/installed consisting of open shop **Non-Union** Technician(s). Includes all travel related Expenses & Freight.

Lead time: **Trip 1 - 2 weeks notice**
Trip 2 - Allow 6-8 weeks for door & upgrade materials.
Trip 3 – 2 weeks notice.

Terms: multiple element billings net 30 days after invoice
 Freight: FOB Minocqua, WI USA, freight prepaid.

ITEMS NOT INCLUDED IN THIS QUOTATION

- Removal/installation of interior finishes
- Removal of electrical/HVAC as required
- Union crew installation/Prevailing wages
- Additional Steel Magnetic Shielding
- Dumpster for disposal of debris
- Temporary power / Smoke Evacuation
- Full set of shop drawings (details only provided)

Option 1 - RF door upgrades: The base price includes the service of the existing ETS MRDS manual door. ETS-Lindgren offers a number of RF door upgrades. The EVO door line is available with a number of optional items and in enhanced STC ratings. Our EVO AS RF door uses a fully automatic RF sealing mechanism instead of the mechanical spring finger RF contacts. The EVO AS system offers superior attenuation performance and efficient user interface. The EVO AS system requires customer furnished 120vac power for both the door and its associated compressor. **[Note: Prices quoted are for EACH door selected.]**

Upgrade to EVO STC44 door assembly:	Add: \$2,350.00 per door	Accepted: _____
Add EVO AS door assembly Door-Gard™ cipher security system:		
Note: To interface a fire alarm, oxygen monitor or other alarm devices to the Auto Seal-II door the Door-Gard™ option must be selected.		
	Add: \$1,550.00 per door	Accepted: _____
Full Automatic door opener/closure device:	Add: \$6,800.00 per door	Accepted: _____


Allow 6-8 weeks for manufacture & delivery of RF doors &/or options.

POINTS OF CLARIFICATION

1. Our proposal does not include the removal/installation of interior finishes, which will be required in areas requiring RF Shield modification work.
2. ETS-Lindgren will need full access to the room.
3. Our proposal does not cover any M.E.P work prior to, during, or after any shield modifications.
4. If the customer wishes to test the ground isolation of the existing shield then all penetration points should be disconnected from the shield well in advance of Lindgren arriving on site for the first (1st) test. All work involving the disconnect of these penetrations will be the responsibility of the customer. If disconnects are not made by GC prior to Lindgren arrival on-site we will assume that the customer will not want this testing to be performed. Any additional work/costs required to un-ground the shield at the time of final testing will be the responsibility of the GC.
5. Based upon the new MRI system being purchased acoustical abatement may be an issue. If requested by the customer, Lindgren will provide additional costs for Acoustically rated RF doors. It is the customers responsibility to notify Lindgren of their intentions. The lead time for acoustically rated RF doors is 4-6 weeks.
6. *We will RF test the shield upon completion of Trip 2 (2nd test) and after magnet delivery and close of the shield. If the 2nd test is shown to be below the known specified level for the new magnet, the customer will be notified at that time of the 1st test that the primary shield is out of specifications. At the completion of the work as detailed in the quotation, we will indicate the RF performance shown on the 2nd test. After the stated work as described in the quotation is completed and the shield does not test to the required specification, the customer will be notified, in writing, what additional services need to be performed. The written additional work will be billed at our standard billed service labor rates and all materials provided at list prices. The additional work, if any, may require added travel and living expenses, and RF testing services.*

7. Warranty, Terms & Conditions - Any resulting contract is bound by the following Responsibilities & Clarifications, ETS-Lindgren Inc. Terms & Conditions, and Warranty documentation. http://www.ets-lindgren.com/pdf/ETS-Lindgren_Terms_v2.pdf
http://www.ets-lindgren.com/pdf/ETS-Lindgren_StdWarranty_v3.pdf
8. Quotation is firm for 60 days.

I certainly hope you find this quotation acceptable and look forward to working with you on this upgrade.

<p>SALES TAXES - GENERAL CONDITIONS</p> <ul style="list-style-type: none"> • Unless specifically stated otherwise, prices quoted or stated do not include Federal, State, or Municipal sales, use, excise or other taxes measured, in whole or in part, by gross receipts. Any such taxes applicable to the sale, processing, assembling, installing, use of consumption of the goods or materials and/or any services or labor shall be the sole obligation of the customer and will be invoiced to the customer. • "Customer agrees that applicable sales taxes will be those in effect within the pertinent jurisdiction <u>at the time of invoicing</u> by ETS Lindgren, Inc." • Third Party Payment Portals: Unless otherwise provided for in Subcontractor's proposal, all third (3rd) party payment system fees will be submitted via change order as an ADD to Subcontractor's price in accordance with that particular services percentages, rates, and/or fee schedules. • "If this project uses the TEXTURA payment system than the following will apply. We will add to the total quoted price 15% of the entire contract value with a minimum payment of \$50 and a maximum payment of \$1,450.00."Options are listed in section 3 of this proposal. When required you must add sales tax for the total amount of the selected options. • THE GENERAL TERMS AND CONDITIONS SHOWN ON THE ATTACHED SHEETS "T&C-2016" AND "W-2014" ARE INCORPORATED HEREIN AND MADE A PART OF THIS QUOTATION. 	
<p><i>A purchase order or contract will be required in order to fully process this project. A Letter of Intent or NTP will allow the order to be entered for administrative execution only. No materials will be purchased or manufactured without an executed agreement by both parties</i></p>	<p>John W. Stanfield: </p> <p>Southwest Regional Sales Manager – Medical Products</p>
<p>When entering into an agreement to purchase please use the following address to remit all invoiced amounts. Please note the invoice number on all checks.</p>	
<p>Direct payment: - Lockbox ETS-Lindgren, Inc. P.O. Box 841147 Kansas City, MO 64184-1147 Payment by Check (Overnight Courier Service): Commerce Bank 811 Main KC LBX-841147 Kansas City, MO 64105 Phone: 1-800-207-0886</p>	<p>Wire Transfer funds to: Bank: Commerce Bank ABA#: 101000019 Account#: 208012547 Account Name: ETS-Lindgren, Inc. Payment by Wire Transfer (International): Bank: Commerce Bank ABA#: 101000019 SWIFT#: CBKCUS44 8000 Forsyth St. Louis, MO 63105 Account#: 208012547 Account Name: ETS-Lindgren, Inc.</p>

GENERAL CONDITIONS

Prices quoted reflect open shop, normal, first shift, working hours (8am-5pm) Monday-Friday, unless otherwise stated. Overtime work may be performed at the discretion of Lindgren's installation manager.

The owner or his agent shall provide a properly engineered site to accommodate the shielding system. The site must be prepared for the installation of the proposed shielding system prior to delivery of materials.

ETS-Lindgren will not be responsible for the structural shoring, reinforcement or other structural alternations necessary to unload, transport to the site of the work, or the installation of the work. This is inclusive of all shielding materials and or the necessary equipment to move and/or erect same.

The customer or the General Contractor shall be responsible for providing all necessary temporary lighting and electrical power. This is the include AC power for at least two welding machines (100a/208v) if necessary.

The customer is responsible for any smoke evacuation or ventilation required at this site during the installation of the shielding.

The customer or the General Contractor shall provide at least one trash container for the removal of waste crating materials. ETS-Lindgren shall be responsible for general cleaning of the site of our work and placing waste materials into the provided container.

ETS-Lindgren shall be given free and clear access to the site of our work. It shall be the responsibility of the owner or his agents to prepare adequate site access, for materials and equipment. The contractor will also be responsible to coordinate the activities of other trades within the area of our work.

All local and/or state building permits are the responsibility of the owner or his agents.

ETS-Lindgren shall only be responsible for the cost of RF testing of the enclosure, all materials and inspections other than RF testing of the enclosure will be the responsibility of the customer. All other inspections and testing services shall be retained by the customer.

Coordinated work, such as, but not limited to: foundations, structural steel, fire proofing, insulation, exterior pre-cast, weather proofing, building inspections, etc., shall be completed to the extent that they will not effect the orderly completion of our work.

Weather proofing: The site of our work **MUST** be completely weather proof prior to the delivery of and during the installation of any shielding materials.

Crane requirement: The site of the work is located at the ground floor level. This proposal does not include the use of a crane to move RF/magnetic shielding materials and equipment to the space unless specifically noted. Should Lindgren be required to supply a crane to move materials to the space, this will be additional expense to the customer.

Staging: This proposal assumes that all delivered materials will be staged in secured and weatherproof areas immediately adjacent to the site of our work. If this is not possible additional charges maybe required.

ETS-Lindgren shall not be responsible for the removal or reinstallation of any fire proofing materials. Asbestos abatement of any kind will be the sole responsibility of the owner or his agents.

The removal and reinstallation of any interior or exterior building finishes, glazing, or architectural surfaces shall be the responsibility of the owner or his agents.