

Verification Under Oath

**STATE OF VERMONT
GREEN MOUNTAIN CARE BOARD**

In re: Northeastern Vermont Regional Hospital)
Certificate of Need Application)
Replacement of Mobile MRI with a Fixed MRI Unit) Docket No. GMCB-009-17con

Paul R. Bengtson, being duly sworn, states on oath as follows:

1. My name is Paul R. Bengtson. I am the Chief Executive Officer of Northeastern Vermont Regional Hospital ("NVRH.") I have reviewed NVRH's Responses to the April 7, 2017 Question from Donna Jerry, Senior Health Policy Analyst (the "April 7th Response.")
2. Based on my personal knowledge and after diligent inquiry, I attest that the information contained in the April 7th Response is true, accurate and complete, does not contain any untrue statement of a material fact, and does not omit to state a material fact.
3. My personal knowledge of the truth, accuracy and completeness of the information contained in the April 7th Response is based upon either my actual knowledge of the subject information or upon information reasonably believed by me to be true and reliable and provided to me by the individuals identified below in paragraph 4. Each of these individuals has also certified that the information they have provided is true, accurate and complete, does not contain any untrue statement of a material fact and does not omit to state a material fact.
4. The following individuals have provided information or documents to me in connection with April 7th Response and each individual has certified, based either upon his or her actual knowledge of the subject information or, where specifically identified in such certification, based on information reasonably believed by the individual to be reliable, that the information or documents provided are true, accurate and complete, do not contain any untrue statement of a material fact, and do not omit to state a material fact:

Robert N. Hersey, Chief Financial Officer

5. In the event that the information contained in the April 7th Response becomes untrue, inaccurate or incomplete in any material respect, I acknowledge my obligation to notify the Green Mountain Care Board and to supplement the April 7th Response as soon as I know, or reasonably should know, that the information or document has become untrue, inaccurate or incomplete in any material respect.

Paul R. Bengtson
Paul R. Bengtson, CEO

On July 13, 2017, Paul R. Bengtson appeared before me and swore to the truth, accuracy and completeness of the foregoing.

Judith Warbaugh
Notary public

My commission expires 2/10/2019

DELIVERED ELECTRONICALLY

July 13, 2017

Donna Jerry, Senior Health Policy Analyst
Green Mountain Care Board
89 Main Street, Third Floor, City Center
Montpelier, VT 05620

RE: Docket No. GMCB-005-17con, Replacement of Mobile MRI with Fixed MRI Unit and Related Construction/Renovation. Project Cost: \$3,051,564

Dear Ms. Jerry:

The following information from Northeastern Vermont Regional Hospital (NVRH) is offered in response to the question(s) included in your April 7, 2017 letter concerning the above-referenced project.

1. Provide a narrative description of the mechanical, electrical, plumbing and fire protection plans (MEP/FP) or schematic level MEP/FP plans for the proposed project.

Division 21 – Fire Protection

All automatic sprinkler system work associated with this contract shall be installed in accordance with Siemens Medical Solutions published instructions and recommendations.

The existing wet sprinkler system shall be extended to provide NFPA-13 compliant coverage within the new addition.

Within the Magnet Room, materials used to construct the sprinkler system, including pipe, hangers, heads and other associated hardware shall be nonferrous, tested for zero deflection angle or limited magnetic field interactions. Discussions with the owner relative to the use of a pre-action dry system for the Magnet Room and Equipment Room are ongoing.

Sprinkler heads shall be equal to Viking Mirage quick response concealed pendant MRI approved type

All penetrations in the RF cabin/shield shall pass through a wave guide equipped with approved dielectric couplings or fittings in accordance with Siemens installation requirements

Division 22 – Plumbing

All plumbing work associated with this contract shall be installed in accordance with Siemens Medical Solutions published instructions and recommendations.

All new plumbing work associated with this project, including medical gas, shall be in accordance with prevailing state codes and NVRH construction standards.

Within the Magnet Room, materials used to construct plumbing systems, including pipe, hangers, fixtures and other associated hardware shall be nonferrous, tested for zero deflection angle or limited magnetic field interactions.

All penetrations in the RF cabin/shield shall pass through a wave guide equipped with approved dielectric couplings or fittings in accordance with Siemens installation requirements.

Plumbing pipe materials shall be in keeping with NVRH construction standards for all work outside of the Magnet Room. Existing plumbing infrastructure shall be extended to address the contract area.

All new domestic water piping shall be insulated in keeping with prevailing energy codes. Roof drainage piping shall be insulated to prevent condensation.

Division 23 – Heating, Ventilating and Air Conditioning (HVAC)

All HVAC work associated with this contract shall be installed in accordance with Siemens Medical Solutions published instructions and recommendations.

All new HVAC work associated with this project shall be in accordance with prevailing state codes and NVRH construction standards.

Within the Magnet Room, materials used to construct HVAC systems, including pipe, hangers, ductwork, control wiring, air distribution devices and other associated hardware shall be nonferrous, tested for zero deflection angle or limited magnetic field interactions.

All HVAC associated duct and pipe penetrations in the RF cabin/shield shall pass through a wave guide equipped with approved dielectric couplings or nonferrous fittings in accordance with Siemens installation requirements.

HVAC duct and pipe materials shall be in keeping with NVRH construction standards for all work outside of the Magnet Room. Existing HVAC infrastructure, including a variable air volume air handling system that serves the general area, shall be extended to address the contract area, with exception of the Control Room, which shall be served by a dedicated computer room air conditioning (CRAC) system.

All new ductwork, hot water and chilled water piping shall be insulated in keeping with prevailing energy codes.

A Cryogen venting system shall be installed in accordance with Siemens Medical Solutions published instructions and recommendations.

A medical application chiller shall be provided to serve the MRI unit. The chiller shall provide approximately 18 tons of cooling capacity and be located outdoors on grade. Water/glycol concentration as recommended by Siemens shall be circulated between the MRI unit and chiller heat exchanger. Potable water shall be used for emergency back-up cooling water.

Temperature and humidity levels within the Magnet Room and other department spaces shall be as recommended in Siemens Medical Solutions published instructions and recommendations.

The new Toilet Room, Changing Room and Injection Room shall be served by mechanical exhaust. Ventilation air quantities to all spaces shall be in accordance with ASHRAE Standard 170.

An established Siemens Technologies facility Energy Management System (EMS) shall be extended as required to provide temperature and humidity control of all HVAC applications serving the new addition, plus have alarm, notification and scheduling features to provide real time communication with the Facilities Maintenance staff.

Division 26 - Electrical

All electrical work associated with this contract shall be installed in accordance with Siemens Medical Solutions published instructions and recommendations, specifically drawings E-101, E-102 and E-501 (copies attached).

All new electrical work associated with this project shall be in accordance with prevailing state codes and NVRH construction standards.

Within the Magnet Room, materials used to construct electrical systems, including pipe, hangers, conduit, raceways, control wiring, electrical devices and other associated hardware shall be nonferrous, tested for zero deflection angle or limited magnetic field interactions.

All electrical work penetrations in the RF cabin/shield shall pass through a wave guide equipped with approved dielectric couplings or nonferrous fittings in accordance with Siemens installation requirements.

Electrical installation materials, devices and specialties shall be in keeping with NVRH construction standards for all work covered under this contract. Existing electrical infrastructure shall be extended to address the contract area and supplemented with new as required to provide a completely code compliant and functional end product.

The new MRI unit shall be powered from the existing 480 volt, 3 phase main electrical service equipment currently in place that serves a mobile MRI Trailer.

In accordance with the Siemens Medical Solutions drawings, provide new power conditioner and other electrical specialties for the main power feed to the MRI suite.

Install all required transformers, lighting, electrical specialties and safety devices required by prevailing codes and in keeping with best trade practices throughout the contract area to provide a completely functional end product.

Install all required mechanical equipment power, grounding, normal power branch circuits, emergency power branch circuits, application specific receptacles, conduit, wireways, raceways, lighting and lighting controls throughout the contract area to provide a completely functional end product.

Install new Tel/Data drops, specialties and devices for the new MRI unit and throughout the contract area to provide a completely functional end product.

The existing Nurse Call system shall be extended to address the new MRI suite and other spaces in the contract area.

The existing Fire Alarm system shall be extended to address the new MRI suite and other spaces within the contract area.

Please contact either Bob Hersey or me with any questions concerning this response to your April 7, 2017 letter.

Sincerely,


Paul R. Bengtson, CEO

CC: Bob Hersey