

APPENDIX A

SAMPLE RCX RFQ

B.3 STATEMENT OF WORK

1.0 STATEMENT OF WORK RETRO-COMMISSIONING –

1.1 Project Overview

The Department of Veterans Affairs Health Care Network – Veterans Integrated Service Network (VISN) 07 has chosen to pursue Retro-Commissioning Service (RCx) at the following sites and data provided is FY2012 which is the most current data on file:

Facility Name	Location	SQ Foot	Energy (MMBTU)	Water (Kgal)
521 VAMC Birmingham, AL	Birmingham, AL	793,000	133,575	78,900
619 CAHCS Montgomery	Montgomery, AL	472,000	92,027	20,570
679 VAMC Tuscaloosa, AL	Tuscaloosa, AL	1,091,000	134,440	37,730
619A4 CAVHCS, Tuskegee	Tuskegee, AL	997,000	142,391	30,910
509A0 VAMC Augusta, GA, Uptown	Augusta, GA	870,000	91,007	42,870
509 VAMC Augusta, GA downtown	Augusta, GA	703,000	127,358	42,210
508 VAMC Atlanta, GA	Decatur, GA	1,098,000	234,392	53,791
557 Carl Vinson VA Medical Center	Dublin, GA	686,000	127,575	35,060
534 VAMC Charleston, SC	Charleston, SC	504,000	83,897	24,350
544 VAMC Columbia, SC	Columbia, SC	831,000	143,811	49,200

1.2 Schedule and Special Item Number (SIN) Descriptions

The VA intends to procure RCx as a General Services Administration (GSA) Federal Supply Schedule (FSS) order on:

- Schedule 03FAC – Facilities Maintenance and Management Energy Management, Water Conservation and Support Services.
- Category (SIN): 871-206 Building Commissioning Services

The scope of the GSA FSS includes a range of services and solutions to satisfy the requirements. The government requires the contractor to provide the services listed in Table 1 - SIN below that summarizes the SIN listed. The SIN descriptions provided in Table 1 are those listed in the GSA FSS and are abbreviated and not verbatim from the GSA Schedule. The contractor shall be required to provide the services indicated in its GSA FSS.

Table 1 - SIN

SIN	Description
871-206 Building Commissioning Services	Commissioning, re-commissioning and retro commissioning of new construction, major modernization projects, and existing buildings to ensure they are designed to operate as energy efficient as possible.

The Contractor shall comply with all terms and conditions of the awarded GSA FSS and orders issued against their FSS.

1.3 Technical Requirements

1.3.1 Background

VA is seeking professional RCx services for the purpose of establishing baselines for all related energy-using systems to proper operational capabilities for fully functional health care facilities within VISN 7. VA designed parameters for infection control within each of the facilities and Heating, Ventilation, Air Conditioning (HVAC) and Refrigeration, must be met as first priority, but completion objectives of this project are to improve energy efficiency and performance optimization. This project will identify the problems and allow for a limited amount of on-site corrective actions.

Companies may utilize any number of various creditable methods and techniques available to achieve the RCx service required under this contract. Some of these methods include the US Green Building Council (USGBC), ASHRAE Guidelines for RCx for existing buildings, Department of Energy (DOE) Federal Energy Management Program (FEMP) Guidelines for RCx of existing buildings, which provide sufficient detail to provide a RCx (Tune-up) of the facilities to achieve energy optimization and performance.

The contractor will not be required to register the facility with USGBC or any other Guidelines Agency but only to use the guidelines for the purpose of optimization, energy savings, and training.

The contractor will review equipment lists as available and update as necessary. The Contractor will observe whether these fundamental building elements and systems are installed, calibrated and operated as intended so they can deliver functional and efficient energy and operational performance.

The intent is to verify that fundamental building systems and assemblies are performing as optimally as possible to meet current needs and sustainability requirements without compromising the level of infection control. The company under this contract will review and observe whether these fundamental building elements and systems are installed, calibrated and operating as intended so they can deliver functional and efficient energy and operational performance.

1.3.2 Scope

Retro Commissioning includes the following systems:

- Systems that simultaneously heat and cool, such as constant and variable air volume reheat
- Economizers, which often need repair or adjustment, potential problems include frozen dampers, broken or disconnected linkages, malfunctioning actuators and sensors, and improper control settings
- Pumps with throttled discharges
- Fixed speed fans which operate at inefficient fan speeds
- Equipment or lighting operating on improper schedules
- Improper building pressurization (either negative or positive)
- Equipment or piping that is hot or cold when it should not be; unusual flow noises at valves or mechanical noises
- Short cycling of equipment
- Un-Insulated or Improperly Insulated Hot and cold HVAC systems
- Variable – frequency drives that operate at unnecessarily high speeds, or operate at a constant speed even though the load being served varies
- Building Automation System sensors and controllers which are out of calibration, non-functioning or improperly programmed for their intended function.
- Improper Balance of Air Side Systems.
- AHU not providing air flow or pressurization per design
- Heating and Cooling Control Valves which are “hunting” due to improper control loop tuning and / or bad sensor feed back
- Low Delta Temperature in Cooling Water and Hot Water Heating Systems

RCx services shall be performed on the facilities listed in Section 1.1.

1.3.3 Definitions

Contracting Officer (CO): The VA's CO has the authority to enter into, administer and/or terminate contracts and may make related determinations and findings. The CO will designate to the Contractor in writing the roles and responsibilities of other VA officials as they relate to the execution of this contract.

Contracting Officer's Representative (COR): The COR and Project Manager will be assigned to represent the CO as identified in the respective delegation letters. The respective duties will be described thereto.

Contractor: The Contractor is solely responsible for the management (planning, supervision and contract coordination) and retro-commissioning services (including all labor, equipment, materials, inspections, and professional services) to meet requirements of this contract.

Current Facility Requirements (CFR): Defines the users' current operational needs and requirements for a building. It typically includes items addressing temperature and humidity set points, lighting levels, operating hours, filtration, vibration, sound and/or specialty needs. Reference [U.S. Department of Veterans Affairs Technical Information Library \(www.cfm.va.gov/TIL/www.cfm.va.gov/til/\)](http://www.cfm.va.gov/TIL/www.cfm.va.gov/til/)

Field Code Changed

Distribution of Submittals: Contractor deliverables for each Task shall include two (2) complete sets of electronic files and hard copies delivered to the COR. All other documents including narrative and text documents, specifications, design analysis and cost estimates shall be furnished on recordable compact discs.

Facility Improvement Measure (FIM): Alterations or revisions to systems or equipment planned to improve building and system performance, reduce operations and maintenance (O&M) costs and/or improve the indoor environmental quality.

Retro-Commissioning (RCx): The application of the commissioning process to an existing building that has not previously undergone the commissioning process. **Return on Investment (ROI):** The ratio of the money gained or lost on an investment relative to the cost of the investment. To calculate ROI, the benefit (return) of an investment is divided by the cost of the investment; the result is expressed as a percentage or a ratio. $ROI = (\text{Gain from Investment} - \text{Cost of Investment}) / \text{Cost of Investment}$.

VA Review and Comment Resolution: The VA will review all submittals identified under this contract. Formal comments generated by the VA during the review will be provided to the Contractor. Reviews of design documents, shop drawings, and product data by the VA are not

to be interpreted as an approval of the Contractor's selections or progress toward meeting contract requirements.

1.4 Objectives

1.4.1 Review and update all necessary equipment lists.

1.4.2 Identify and prioritize operational and maintenance enhancements in major building systems that result in improvements in infection control, energy efficiency, occupant comfort, and maximal indoor air quality.

1.4.3 Evaluate design adequacy of major building HVAC systems in ensuring infection control is achieved in critical patient care areas.

1.4.4 Evaluate system performance in relation to design specifications and characterize deviations.

1.4.5 Optimize control systems through calibration of sensors, improved metering, development and review of trend logs, and functional equipment testing.

1.4.6 Evaluate the 'Preventive Maintenance Program (PMP)' and assess its effectiveness in maintaining operating systems. Provide the necessary corrections to improve PMP and to train essential staff in its application.

1.4.7 Establish a system, or improve an existing system, to benchmark current energy consumption of buildings and building sub-systems so that future energy needs can be realistically assessed and then documented.

1.4.8 Identify options and cost estimates for energy savings throughout the healthcare facility including both low cost and high cost alternatives.

1.4.9 Identify the Operations & Maintenance (O&M) personnel training needs to improve the skills/abilities to respond effectively to changing needs of the building/occupants.

1.4.10 Complete the technical data columns (AHU Supply/Return/MUA CFM, cooling/heating/HR coils BTU capacity, control valve type and sizes, recommended energy conservation measures for each AHU, etc.) on the system level equipment lists (HVAC Inventory) completed for each facility.

1.5 Process

The following summarizes the project steps, which are detailed in the following sections:

Task 1 - Planning Phase includes initial site investigation visit(s), review of existing documentation and requirements, determine the need to update all equipment lists to reflect as-found and preparation of a retro-commissioning plan.

1.5.1 Task 1 - Planning Phase. The contractor shall provide the following:

1.5.1.1 Facility Visit and Documentation Review – Visit each facility to be RCx and review building drawings and other documentation as available to understand the building energy usage, initial basis of design and evaluate the system integration. The review process includes the evaluation of all old and new drawings, specifications, test and balance (TAB) reports, O&M manuals (typically related to mechanical, electrical and controls), and any past commissioning reports. All equipment lists and drawings will be updated to reflect current as-found conditions. Each facility visit shall be of such duration as necessary for the RCx contractor to familiarize themselves with all major HVAC systems in the facility to aid in documentation review and RCx plan development.

1.5.1.2 Review the current facility functions and hours of operation to identify and update changes from the original design criteria and assumptions.

1.5.1.3 Review current VA standards and directives to identify those applicable to the CFR.

1.5.1.4 Develop the RCx plan with input from the facilities staff and observations/photos from initial site visits. The plan shall, at a minimum, contain the following sections:

- a. General building information and contacts (name, address, phone numbers etc.).[Government Furnished after award]
- b. Project objectives. [Government Furnished after award]
- c. Building description (brief). [Government Furnished after award]
- d. Project scope.
- e. Roles and responsibilities.
- f. Schedule (for primary tasks).
- g. Documentation.
- h. Investigation scope and methods.
- i. Implementation phase.

1.5.1.5 Conduct a scoping meeting to review, discuss, and agree to the retro-commissioning plan. This meeting should establish a mutual understanding between the contractor and the VA to achieve a clear understanding of all contractual requirements and to identify and resolve potential problems, thus initiating a joint and cooperative approach to the project work and striving to a satisfactory outcome for all parties.

Task 1 Planning Phase Deliverables:

- Draft RCx Plan 7 calendar days prior to scoping meeting.
- RCx Plan Scoping Meeting Minutes
- RCx Plan incorporating VA comments

Task 2 - Investigation Phase includes detailed field inspections, data gathering, testing, and analysis to accurately assess system performance and identify improvement opportunities.

1.5.2 Task 2 - Investigation Phase. The contractor shall provide the following:

1.5.2.1 System Condition Analysis. Check systems for conditions that affect operation of the respective systems. This shall include items such as cleanliness of coils, condition of filters and belts, valve/damper operation, equipment overall physical condition, and completion of required preventative maintenance actions.

1.5.2.2 Site Review/Survey. Conduct a thorough and detailed building walk through with facility maintenance personnel to evaluate the issues identified in the Task 1 - Planning Phase and observed during the initial site visit and subsequent drawing and documentation review. VA facility staff will provide the RCx Contractor to access to important documents. These include:

- Site/building plans (as-builts or record plans)
- Specifications and equipment lists
- O&M manuals and TAB Reports
- Sequences of operations for control systems
- Control system schematics
- Training manuals
- Prior engineering or energy efficiency reports and studies
- Renovation history and future plans
- Demand Maintenance logs and history
- CMMS system capabilities and repair histories
- Comfort complaint logs
- Documentation of Current Facility Requirements

After contractor has conducted all functional performance testing to determine how the systems are operating they will update all documents to reflect as found settings.

1.5.2.3 Building Occupant Interviews. Interview the VA facility maintenance personnel, utility personnel, occupants, and other relevant parties to understand the current needs and issues related to system O&M. The Contractor shall perform a formal interview process to systematically assist in understanding potential issues and problems, uncover potential improvement opportunities, confirm the CFR and to develop consensus on the RCx process goals.

1.5.2.4 Facility Performance Analysis and Performance Baseline Establishment.

1.5.2.4.1 The Contractor shall collect and analyze available energy, non-energy and other system performance data to establish baseline benchmarks for facility performance. Available facility performance baseline data shall include utility billing data, sub-metering data, work orders, comfort complaint logs, indoor air quality parameters, occupant satisfaction survey results, building automation system (BAS) trend data, and/or stand-alone data logger data.

1.5.2.4.2 The Contractor shall gather individual system(s) data a minimum of two weeks prior to commencing any modifications to the systems and again after completion of any modifications.

1.5.2.5 Systems Diagnostic Monitoring. The Contractor shall develop a System Diagnostic Monitoring Plan for COR review and approval. After VA approval of the Diagnostic Monitoring Plan, the Contractor shall perform comprehensive system diagnostic monitoring. Diagnostic monitoring methods shall include BAS trending, portable data logger trending, and energy and weather data collection. The contractor shall use the collected data to analyze system performance to identify issues and improvement opportunities and highlight particular problems that require more rigorous and focused investigation.

1.5.2.6 Systems Test Procedures and Plans. The Contractor shall develop Systems Test Procedures and Plans for the systems identified in the project scope and submit to the COR for review and approval. Test plans typically focus on confirming that the system performance is meeting the performance requirements of the occupants or VA standards set forth in the CFR.

1.5.2.7 System Testing. The Contractor shall perform system testing to evaluate the building systems performance and provide the results and analyses in a System Testing Report submitted to the COR for review and approval. In addition, any anomalies or issues identified in earlier Task 2 - Investigation Phase steps shall be considered for further evaluation during system testing to determine root causes and possible solutions. The testing process includes the verification and calibration of all sensors.

1.5.2.8 Contractor shall install several CO2, Relative Humidity and differential air pressure monitors in various locations, coordinated with the VA COR, to obtain a representative baseline air quality condition before and then again after any RCx work for each HVAC airside system. This will provide the VA some operational information to assure air quality is being maintained in addition to the energy savings. The contractor can assess the number of monitors, with COR concurrence, required to properly evaluate the facilities air side systems, during the site walk.

1.5.2.9 Contractor shall perform simple repairs or improvements identified during the Task 2 - Investigation Phase monitoring and testing and submit the Simple Repair Report Summary to the COR for review and approval. Simple repairs or improvements are low cost with less than 30 minutes onsite labor, e.g., repairing simple damper blockages, replacing fan belts, adjusting sheaves. Incidentals such as replacing screws, fasteners, changing air filters, replacing belts and sensors with a material/equipment COTS catalog cost of less the \$60.00 each (direct costs) shall be performed at no additional cost to the VA.

1.5.2.10 Task 2 Investigation Phase Deliverables:

Facility Information Documents

Building Occupant Interviews and Goals
Facility Performance Analysis & Performance Baseline
System Diagnostic Monitoring Plan and Report
System Test Procedures, Plan and Report
Simple Repair Report Summary
Minor Repair Recommendation Report Summary

Task 3 – Equipment List Phase Fundamental HVAC and building systems are ‘energy-using’ systems and the systems to be RCx are identified and listed within the contract by site. The contractor will review equipment lists as available and update in excel as necessary.

1.5.2.11 Task 3 – Equipment List

The contractor shall complete a list of all HVAC and Process Systems Equipment. This list will include all major equipment such as Air Handling Units, Roof Top Units, DX multizone & Split AC units, Fan Coil Units, VAV Boxes, Ventilation and Exhaust Fans, Pumps, Boilers, Chillers; Cooling Towers, process coolers, once thru water coolers, refrigeration units, complete with their capacities and make, model and size of electric motors in rated HP and measured kW. Additionally the report shall include a detailed description of the facilities building automation system(s), including a detailed points list utilizing best available data and computer front end reports as available.

Task 4 - Final Report: The contractor shall prepare a final report. The final report shall, at a minimum, contain the following

Executive summary

Project background and scope of the commissioning project

- Summary of facility energy usage, including comparisons to previous years consumption. Must include annual energy/water consumption units per SF of facility.
- Provide data on equipment conditions / settings at the start of the process and upon completion, highlighting the changes.
- Overview of activities conducted and changes implemented
- A cost/savings analysis for each improvement implemented
- Summary of missing critical documentation
- Recommendations for recalibration frequency of sensors and actuators by type and use.
- Specific recommendations regarding seasonal operational issues that affect energy use on a system by system basis.
- List of O & M recommendations and strategies –
 - Prioritized Recommendations for System Efficiency and reliability improvements to existing practices and procedures, providing system specific recommendations.
- Plan for future energy efficient system operation –
 - Prioritized Recommendations
- Preventative maintenance plan –

- Prioritized Recommendations for System Efficiency and reliability
Improvements to existing practices and procedures, providing system specific recommendations
- Recommended training for facility staff
- Simple Repair Report Summary of work performed
- Minor and Major Repair Recommendation Report Summary, including cataloged and indexed photos of equipment recommended for repair or replacement.

1.6 Contractor Requirements, Confidentiality and Non-Disclosure

1.6.1 The contractor shall follow all Government rules and regulations regarding information security to prevent disclosure of sensitive information to unauthorized individuals or organizations.

1.6.2 Contractor staff and management may have access to some privileged and confidential materials of the United States Government such as budget and strategic plans. These printed and electronic documents are for internal use only, are not to be copied or released without permission, and remain the sole property of the United States Government. Some of these materials may be protected by the Privacy Act of 1974 (revised by PL 93-5791) and Title 18. Unauthorized disclosure of Privacy Act or Title 18 covered materials is a criminal offense.

1.6.3 Regulatory standard of conduct governs all personnel directly and indirectly involved in procurements. All personnel engaged in procurement and related activities shall conduct business in a manner above reproach and, except as authorized by statute or regulation, with complete impartiality and with preferential treatment for none. The general rule is to avoid strictly any conflict of interest or even the appearance of a conflict of interest in Government-contractor relationships.

1.7 Other Personnel Considerations

1.7.1 Personnel assigned by the contractor to the performance of work on this contract shall be acceptable to VA in terms of personal and professional conduct and technical knowledge. Should the assignment to this contract of any person by the contractor be deemed to conflict with the interests of VA, or in the event performance is deemed unsatisfactory at anytime during the life of the contract, the Contracting Officer may notify the contractor and request the person be immediately removed from the assignment. The reason for removal will be documented and a request to receive key personnel replacement within five (5) business days of the notification will be made. Replacement key personnel qualifications shall be equal to or greater than those of the key personnel being replaced shall. Employment and staffing difficulties will not be justification for failure to meet established schedules.

1.7.2 The contractor must notify VA seven (7) calendar days in advance and the CO will approve or reject new proposed contractor key personnel for the performance of this contract.

The contractor shall submit a resume of qualifications and the Contractor Personnel Change Control form CO and all other direct employees proposed for the project. The CO will approve all contractor employees prior to bringing on duty via Contractor Personnel Change Request Form, at any time from date of award to the end of the contract, contractor personnel are no longer available, the VA will approve the qualifications of proposed replacement key personnel. All contractor employees are subject to immediate removal from performance of this contract when they are involved in a violation of the law, VA security, confidentiality requirements, and/or other disciplinary reasons.

1.8 Summary Synopsis and phasing methodology of all the items to be reviewed under this statement of work (SOW)

1.8.1 The focus (highest priority) of this project should be on the HVAC, exhaust and or Air handling equipment of the facility. VA believes this will provide the largest impact on energy savings and reduction measures for year round operations and should include innovative approaches to maintaining and improving the air quality of sensitive patient care areas such as operating rooms and patient care rooms leading to improved infection control. Deficiencies noted but not corrected during the implementation phase shall be broken down in sufficient detail and prioritized for future projects.

1.8.2 Any simple repair or material corrective action required to promote commissioning shall be included in the task order under Phase II.

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2.0 FORMAL REJECTION AND ACCEPTANCE OF DELIVERABLES

The Government will have fourteen (14) calendar days to review each document and provide feedback and/or comments. The contractor shall have seven (7) calendar days to incorporate comments. After delivery of the final document with comments, the Contractor will be notified within fourteen (14) business days whether the document is accepted. Delivery of the final document with incorporated comments shall not constitute acceptance by the Government.

2.1 Deliverables and Tasks

Satisfactory completion of the contract shall be measured by completion of the listed deliverables and tasks identified. Completion of deliverables shall remain within the scope of the approved Statement of Work.

3.0 DELIVERY SCHEDULE/PERIOD OF PERFORMANCE

Period of Performance: 184 calendar days from Notice to Proceed (NTP) to include complete Final Retro-Commissioning Report and Training.

3.1 General Deliverables

3.1.1 The contractor shall submit the following information to the Contracting Officer and COR for approval as specified under each Deliverable.

3.1.2 Provide a detailed task specific schedule that demonstrates complete fulfillment of all contract requirements. The schedule shall include milestone dates, including activity start and end dates and activity description. The schedule shall be submitted and approved prior to receiving the notice to proceed. An updated schedule shall be submitted for approval to the CO prior to progress meetings as work progresses.

3.1.3 Contractor shall submit all required certificates associated with the RCx project prior to receiving notice to proceed.

3.1.4 Proof of Insurance – Due to VA 7 calendar days after award.

3.1.5 Contractor Quality Control Plan (CQCP): The contractor shall develop a CQCP and shall furnish to VA for review and approval no later than 21 calendar days after the receipt of notice to proceed. The plan shall identify personnel, procedures, control, instructions, tests, records, and forms to be used. RCx will be permitted to begin only after acceptance of the CQCP. After acceptance of the CQCP, the Contractor shall notify the CO in writing of any proposed changes. Proposed changes are subject to acceptance by the CO.

3.1.6 Site Specific Safety Plan: Comprehensive site-specific safety plan shall be implemented by the Contractor to eliminate injuries occurring relative to providing the RCx services for this project. RCx will be permitted to begin only after acceptance of the Site Specific Safety Plan. Contractor is responsible for providing enough project lead-time to allow for VA review of the Site Specific Safety Plan before acceptance. The Department of Labor OSHA requires that all Contractors involved in installation (if applicable to this RCx project) on VA owned or leased property comply with the Incorporation of General Industry Safety and Health Standards applicable to Installation Work and Technical Amendments, Final Rule 29 CFR Parts 1910 and 1926 as published in the Federal Register Volume 58, No. 124, June 30, 1993. This document shall be provided to the VA within 21 calendar days after the Notice to Proceed is issued.

3.1.8 During the execution of the RCx project, the contractor shall submit Progress Reports to the COR. Progress Reports shall be submitted bi-weekly commencing at the Notice to Proceed and continuing until submission of the Final Retro-Commissioning Report and completion of training. The reports shall identify work completed, work in progress, project status, any task specific problems, risks and the schedule for the remaining work. All work shall be delineated by specific tasks, including all tasks to complete deliverables. Additionally the schedule shall include Man-hours expended and projected to complete, parts purchased to date and projected to be purchased to complete. The contractor shall provide its key personnel to meet with and discuss project status at bi weekly COR scheduled progress meetings.

3.2 Delivery Table

Task	Name	Time
1	Retro-commissioning Plan - Draft	NTP + 23 calendar days
1	Scoping Meeting Minutes & RCx Plan updated	NTP + 30 calendar days
2	Facility & Equipment Information Documents	NTP + 77 calendar days
2	Building Occupant Interviews and Goals	NTP + 77 calendar days
2	Facility Performance Analysis & Performance Baseline	NTP + 105 calendar days
2	System Diagnostic Monitoring Plan	NTP + 77 calendar days
2	System Diagnostic Monitoring Report	NTP + 90 days
2	System Test Procedures and Testing Plan	NTP + 77 calendar days
2	System Testing Report	NTP + 140 calendar days
2	Repair Report Summary	NTP + 184 calendar days
2	Final Report	NTP + 184 calendar days
2	Out Briefing Addressing investigation findings	NTP + 184 calendar days
3	Equipment list	NTP + 184 calendar days

3.3 Project Acceptance: All submittals and deliverables must be received and approved by the COR before final acceptance of the line item will be made.

4.0 GENERAL REQUIREMENTS

4.1 All employees of general contractor and subcontractors shall comply with VA security management program and obtain permission of the VA police, be identified by project and employer, and restricted from unauthorized access. All contractor employees and sub-contractor employees shall apply for and, if qualified, be badged for general un-escorted access per VA Security Directive requirements.

4.2 Prior to commencing work, general contractor shall provide proof that an OSHA certified “competent person” (CP) (29 CFR 1926.20(b) (2) will maintain a presence at the work site whenever the general or subcontractors are present. (OSHA 30 hour supervisor training) Refer to Section 3.1.3 for instructions.

4.3 Training:

4.3.1 All employees of general contractor or subcontractors shall have the 10-hour OSHA certified Construction Safety course and /or other relevant competency training, as determined by VA CP with input from the ICRA team.

4.3.2 Submit training records of all such employees for approval before the start of work.

4.4 Infection Prevention Measures

4.4.1 Implement the requirements of VAMC's ICRA Group. ICRA Group may monitor dust in the vicinity of the construction work and require the Contractor to take corrective action immediately if the safe levels are exceeded. ICRA guidelines can be accessed [here](#) or through VA's online vendor portal.

4.4.2 Establish and maintain a dust control program as part of the contractor's infection preventive measures in accordance with the guidelines provided by ICRA Group. Prior to start of work, prepare a plan detailing project-specific dust protection measures, including periodic status reports, and submits to Project Engineer for review for compliance with contract requirements in accordance with contract.

4.5 Final Cleanup:

4.5.1 As project progresses, particularly as part of a final inspection remove all debris from these facilities