



**EDWARDS ELECTRIC
INDIANA GOVERNMENT CENTER**

2022 PROPOSAL FOR

QUARTERLY VIBRATION MONITORING

BY

**HORNER INDUSTRIAL SERVICES/
ELECTRO-MECHANICAL DIAGNOSTIC SERVICES, INC.**

October 1, 2021

Mr. Mike Carroll
Edwards Electric
Indiana Government Center
302 West Washington Street
Indianapolis, Indiana 46204

Dear Mr. Carroll,

The following service contract is submitted for your review and approval (See attached service agreement).

Summary of contract:

1. The scope of the work to be performed is for quarterly vibration monitoring of the equipment included in this program. (See attached list for monitored equipment).
2. The contract will be for one year. Blanket Purchase Order to be provided for incremental billing.
3. The amount of the contract will be \$9,759.36. Edwards Electric / Indiana Government Center will be invoiced on a quarterly basis as work is performed. The invoice amount will be: \$2,439.84/quarter.

Note 1: Travel costs are included in the above pricing structure.

Note 2: This pricing structure is based on quarterly monitoring.

Note 3: This pricing structure is based upon vibration data collection coinciding with data collection at the Indiana State Museum.

4. Advanced services work is not covered in this contract. These services will be provided on an as need be basis, determined by Edwards Electric / Indiana Government Center. This work will be performed at the Consulting and Troubleshooting Service Schedule. (See attached rate schedule). Edwards Electric / Indiana Government Center shall issue P.O. #'s for each advanced service call.
5. This quote is valid for thirty (30) days.

On behalf of EMDS, I would like to thank you for the opportunity to be of service. If you have any questions or comments about this quote, feel free to call at any time.

Sincerely,

James M. Renner
Electro-Mechanical
Diagnostic Services, Inc.
317-308-0925

Quarterly Vibration Monitoring Service Agreement

Between:
Edwards Electric / Indiana Government Center
&
EMDS/Horner Industrial Services

Scope of work to be performed:

- a. Quarterly vibration monitoring of the equipment included in this program.
(See attached list for monitored equipment).

Quarterly monitoring includes the following:

- a. Maintaining vibration data bases, including alarms and frequency ranges.
- b. Travel to and from site.
- c. Collection of velocity, acceleration data on each bearing of the machinery included in the program; machines that are not in service, or that cannot be started within a reasonable amount of time, will not be surveyed.
- d. Transfer of collected data into computer and generation of alarm lists.
- e. Analysis of alarms.
- f. Preparation of formal written report, which includes a prioritized list of alarms and recommended actions.
- g. Resetting of data base alarms upon the statistical history of each point. This is continual refinement process which improves the alarming accuracy as the size of the data base increases.

Length of contract:

The contract will be for one year. The contract will start January 1, 2022 and continue through December 31, 2022.

Amount of contract:

The amount of the contract will be \$9,759.36. Edwards Electric / Indiana Government Center will provide a Blanket Purchase Order to Horner Industrial Services. Edwards Electric / Indiana Government Center will be invoiced \$2,439.84 on a quarterly basis as work is completed. Payment terms are net 30.

Vibration Monitoring Service Agreement

Amendments:

Safety:

- a. Horner Industrial Svc./Electro-Mechanical Diagnostic Services, Inc. employees will follow safety procedures as set forth by Edwards Electric / Indiana Government Center.
- b. Guards and covers shall be removed by Edwards Electric employees, or made directly accessible for the purposes of data collection.
- c. Where guards are not removable, equipment accessibility will be accomplished by the use of hand held and extension-mounted accelerometers. As such, Horner Industrial Svc./Electro-Mechanical Diagnostic Services, Inc. employees in conjunction with Edwards Electric safety personnel will determine all safely accessible rotating equipment.
- d. Critical points needing monitoring that cannot be reached safely can be monitored by the installation of remote accelerometers. These accelerometers can then be cabled out to a safe location where our data collectors can then monitor them. Remote accelerometers, cabling, junction boxes and installation are not included in this quote.
- e. Edwards Electric will provide all required safety equipment beyond standard equipment (Hard Hat, Safety Shoes, Safety Glasses and Hearing Protection). Specialized safety equipment and or apparel beyond standard equipment listed to be provided by Edwards Electric.

Additional Machines

- a. In the event of addition or subtraction of machines to this agreement, pricing may be adjusted under the following circumstances.
 - i. Number of machines added requires substantial additional time for data collection and analysis.
 - ii. Access to additional machines requires additional safety equipment and/or training.
- b. If parameters outlined in part (a) indicate that monthly rates should increase Horner Industrial Svc./Electro-Mechanical Diagnostic services shall determine amount of increase at that time, as each case will be unique. Increase will be subject to approval by Edwards Electric.

Contract Termination and Litigation Clause:

- a. In the event of personnel changes at EMDS/Horner Industrial Services, Edwards Electric / Indiana Government Center and EMDS/Horner Industrial Services reserve the right to cancel this contract with 60 days written notification without penalties.
- b. In the event of a dispute in this contract, EMDS/Horner Industrial Services agrees to have the dispute resolved through a third party arbitrator agreed upon by both parties.

MONITORED EQUIPMENT

<u>Equipment Description</u>	<u>Location</u>
Air Handler Unit #1 Supply Fan *	Library
Air Handler Unit #1 Return Fan *	Library
Air Handler Unit #2 Supply Fan *	Library
Air Handler Unit #2 Return Fan *	Library
Air Handler Unit #3 Supply Fan *	Library
Air Handler Unit #3 Return Fan *	Library
Air Handler Unit #4 Supply Fan *	Library
Air Handler Unit #4 Return Fan *	Library
Chill Water Pump 1	Library
Chill Water Pump 2	Library
Secondary Pump 1	Library
Secondary Pump 2	Library
Air Handler #1-B	Indiana Government North
Chill Water Pump A-1	Capitol
Chill Water Pump A-2	Capitol
Air Handler Unit #14	Indiana Government South
Air Handler Unit #15	Indiana Government South
Chill Water Pump #1	Department of Work Force Development
Chill Water Pump #2	Department of Work Force Development
AHU1 Return Fan #1	Department of Work Force Development
AHU1 Return Fan #2	Department of Work Force Development
AHU1 Supply Fan #1 *	Department of Work Force Development
AHU1 Supply Fan #2 *	Department of Work Force Development
Air Handling Unit #6	Indiana Government South
Air Handling Unit #5	Indiana Government South
Air Handling Unit #1	Indiana Government South
Air Handling Unit #7	Indiana Government South
Air Handling Unit #18A	Indiana Government South
Air Handling Unit #18B	Indiana Government South
Return Fan #18	Indiana Government South
Air Handling Unit #19A	Indiana Government South
Air Handling Unit #19B	Indiana Government South
Return Fan #19	Indiana Government South
Air Handling Unit #20A	Indiana Government South
Air Handling Unit #20B	Indiana Government South
Return Fan #20	Indiana Government South
Air Handling Unit #23A	Indiana Government South
Air Handling Unit #23B	Indiana Government South
Return Fan #23	Indiana Government South
Air Handling Unit #24A	Indiana Government South
Air Handling Unit #24B	Indiana Government South
Return Fan #24	Indiana Government South
Air Handling Unit #21A	Indiana Government South
Air Handling Unit #21B	Indiana Government South
Return Fan #21	Indiana Government South
Air Handling Unit #22A	Indiana Government South
Air Handling Unit #22B	Indiana Government South
Return Fan #22	Indiana Government South

MONITORED EQUIPMENT

Equipment Description

Location

Air Handling Unit #26	Indiana Government South
Air Handling Unit #25	Indiana Government South
Return Fan 2A	Indiana Government North
Return Fan 2B	Indiana Government North
Heating HW Pump 18	Indiana Government North
Heating HW Pump 19	Indiana Government North
Supply Fan 1A	Indiana Government North
Supply Fan 1B	Indiana Government North
Supply Fan 2A	Indiana Government North
Supply Fan 2B	Indiana Government North
Supply Fan 3A	Indiana Government North
Supply Fan 3B	Indiana Government North
Return Fan 3A	Indiana Government North
Return Fan 3B	Indiana Government North
Air Handler #1-A	Indiana Government North
Fire Pump #1 **	Indiana Government South
Booster Pump #4	Indiana Government South
Booster Pump #5	Indiana Government South
Heating HW Pump 1	Indiana Government South
Heating HW Pump 2	Indiana Government South
Heating HW Pump 3	Indiana Government South
Fire Pump #1 **	Indiana Government North
Booster Pump #1	Indiana Government North
Booster Pump #2	Indiana Government North
Air Handler #B-1	Indiana Government North
Data Center Pump #1	Indiana Government North
Data Center Pump #2	Indiana Government North
Data Center Pump #3	Indiana Government North
Chilled Water Pump #1	Indiana Government North
Chilled Water Pump #2	Indiana Government North
Chilled Water Pump #3	Indiana Government North
Air Handling Unit 8	Indiana Government South
Air Handling Unit 12	Indiana Government South
Air Handling unit 13	Indiana Government South
Fire Pump 1 **	Historical Society

**** - Standby.**

Consulting and Troubleshooting Service Schedule 2021

Electro-Mechanical Diagnostic Services, Inc. is a firm specializing in the area of field-testing of electrical and mechanical equipment. Consulting and Field Engineering services are performed on a best effort cost reimbursement basis. Acceptance or rejection of recommendations and implementation thereof is the prerogative of the client. Therefore, EMDS, Inc. provides no warranties, expressed or implied, except that the work shall be performed in a professional manner.

Basis of Costs: Labor costs will be billed to the project on the basis of the labor category assigned to the project. Equipment costs will be billed depending on the type of equipment needed to perform the work.

- a. Normal working hours are from 8:00 a.m. to 5:00 p.m., Monday through Friday. During these hours, the standard labor rate will be in effect.
- b. Work performed outside the above listed hours will be at a rate equal to one and one-half (1.5) times the standard labor rate. Sundays, holidays, or after 12 consecutive hours the rate is equal to two (2) times the standard labor rate.
- c. A minimum of four (4) hours plus equipment charges will be charged on any project work site.
- d. Standby time on-site will be billed at the hourly rate in effect at that time. Standby time off-site will be billed at half that hourly rate.

Labor Category

Rate

Senior Engineer Site Time	\$250.00/Hour
Engineer Site Time - Advanced	\$225.00/Hour
Engineer Site Time – Fan Balancing & Alignment	\$160.00/Hour
Analysis and Report Writing	\$125.00/Hour
Travel Time	\$80.00/Hour
Automobile - Mileage	\$0.80/Mile

Equipment Category

Rate

Amplified Motion Video Camera System	\$800.00/Day
24 Channel IOTech System	\$750.00/Day
20 Channel IOTech 672	\$600.00/Day
10 Channel IOTech 652	\$600.00/Day
2 Channel CSI 2140 Analyzer	\$350.00/Day
4 Channel CSI 2140 Analyzer	\$500.00/Day
4 Channel IOTech 650u	\$300.00/Day
Torsional Equipment	\$350.00/Day
Proximity Probe Kit	\$300.00/Day
Balance Kit	\$100.00/Day
Alignment Kit	\$300.00/Day
Structural Kit	\$300.00/Day