



United States Department of Agriculture
Agricultural Research Service

STATEMENT OF WORK

Lift Station Panel and Control Replacement

**Stuttgart National Aquaculture Research Center
(SNARC)
2955 Highway 130 E
Stuttgart, AR 72160**



April 12 2023

Scope Statement

The contractor shall provide all professional services necessary for installation of a lift station control panel enclosure and controls at the USDA, ARS, Stuttgart National Aquaculture Research Center (SNARC), 2955 AR-130, Stuttgart, AR 72160. Preparation for this work will involve dialog with site personnel to determine the specific requirements.

The contractor shall include all services and field labor, equipment, materials, and personal protective equipment necessary to perform the work.

Applicable Codes and Standards apply and are not limited to the following:

ANSI -	American National Standards Institute.
ASME -	American Society of Mechanical Engineers.
NEC -	National Electrical Code, NFPA 72.
OSHA -	Occupational Safety and Health Administration
ADA –	Americans with Disabilities Act

All work must meet *ARS 242.1M “ARS Facilities Design Standards”* for the defined scope of this project in addition to meeting all Local, State and Federal codes, and latest IBC codes. The document may be found at <https://www.afm.ars.usda.gov/ppweb/pdf/242-01m.pdf>.

Project Objectives

The project consists of the following elements:

1. Remove existing lift station control panel and floats that customer will retain.
2. Install new NEMA type 4X – 304 Stainless Steel Enclosure.
3. The new enclosure will have an aluminium dead-front inner door.
4. The new enclosure will have circuit breakers with mounting bracket.
5. The new enclosure will have a 40 Watt strip enclosure heater.
6. Incoming power circuit breaker with main disconnect.
7. Phase monitor with input fusing.
8. 2 – feeder circuit breakers.
9. 2 – 2HP NEMA motor starters with NEMA solid state overloads.
10. Control power circuit breaker.
11. Alternator with lead lag switch.
12. Lag operation.
13. 2 - 22mm hand off switch.

Statement of Work

USDA, Agricultural Research Service

14. 2 – run pilot light.
15. Elapsed time meter.
16. 22mm high alarm pilot light and aux contact.
17. 2 - Manual motor overload reset pushbutton.
18. 2 -22mm motor heat sensors aux contact.
19. 2 – PMR 22mm seal failure aux contact.
20. Common alarm aux contact.
21. LED alarm light.
22. UL label 508.
23. Engraved nameplates.
24. Self laminating wire numbers.
25. Terminal blocks and ground lugs as required.
26. 1- colum Pedestal, 304SS, 35"x6", Saginaw SCE-66CCOLSS (PN 1069477)
27. 4 floats.
28. Where pedestal mounts on tank lid is to be sealed.

Site Visit

Contractors are encouraged to visit the site and be escorted by a government representative to confirm locations, dimensions, and conditions of the project before a bid is submitted. The site visit shall be for the purpose of observing first-hand any conditions relevant to the completion of this project. No consideration will be given to claims based on lack of knowledge of existing conditions, except where Contract Documents make definite provisions for adjustment in cost or extension due to existing conditions not readily foreseeable.

Utilization of Bio-Based Products

The contractor shall utilize products and material based from bio- based materials as applicable, (e.g. bio-based greases; bio-based hydraulic fluids, bio-based absorbents), to the maximum extent possible without jeopardizing the intended end use of detracting from the overall quality delivered to the end user. All supplies and materials shall be of a type and quality that conform to the applicable Federal Specifications and Standards. All supplies and materials to be used in the performance of work described herein are subject to the approval of the Contracting Officer Representative (COR). Products can be found at: www.biopreferred.gov

Statement of Work
USDA, Agricultural Research Service

Safety

The contractor will submit a Site Safety Specific Plan/Accident Prevention Plan in industry recognizable format to the Contracting Officer **within 14 days of contract award**. Contractor shall furnish a Site-Specific Safety Plan (SSSP) and the Government shall review the SSSP prior to the start any construction activities. SSSP shall be in typically accepted industry format.

Contractor Responsibilities

The project has a base bid to be performed per the following specifications:

1. Contractor will verify all dimensions and existing site conditions prior to beginning work.
2. Contractor shall keep work area clean daily and take measures to control debris while work is being performed.
3. Contractor is required to manage the project and consult with the Government prior to beginning all work phases.
4. Contractor shall perform work in a manner that minimizes the impact of the work on Government operations, research, and functions.
5. All work must be performed in such a manner as to not adversely affect daily operations of the facility and its workers.
6. Contractor will provide daily reports of work performed to the COR.
7. Contractor shall remove and dispose of all construction related materials from all work areas daily and remove these waste materials from the site on a weekly basis.
8. Contractor must have a superintendent on the jobsite when crews are performing the installation work.
9. Contractor will provide their own restroom facility.
10. Contractor to include commissioning of the new system, and controls tie-in to the existing building automation system (BAS).

Material / Submittals:

The material for the entire work shall include but are not limited to those detailed above necessary to successfully complete the project and deliver a functioning system as required. Submittals on all material used on this project shall be submitted to the EPM, Site RL, and Contracting Specialist as noted in this document. Electronic submittals are acceptable otherwise three written submittals are required.

Installation Procedure:

Contractor will verify all dimensions and site conditions prior to beginning work. Contractor is required to provide labor, specified material, equipment, and other tools required to perform the job fully and completely. No Government equipment will be available for use by the contractor. The contractor shall always be responsible for protecting his work and ensuring the safety of his crew and ARS employees. Upon completion of the project, the contractor shall remove from the premises all accumulated materials and rubbish caused by the project. Premises shall be left in a clean, orderly, and acceptable condition.

Damage to Property:

Any damage to the Government buildings, utilities, etc. caused as the result of the contractor's activities shall be repaired or replaced to the satisfaction of the Government.

Inspection and Acceptance:

A government representative shall inspect and approve the work performed on this project. The Contractor shall schedule inspection a minimum of 10 days in advance, in writing, to the Contracting Officer.

Project Schedule:

The completion of this project shall not exceed 90 days from date of notice to proceed. A request for time extension must be submitted to the Contracting Specialist in writing. Each request must include specific and detailed reasons in support of the schedule alteration.

Work Hours:

Contractor work hours shall be Monday through Friday, seven (7) A.M. to four (4) P.M. with the exception of Government holidays. Any changes to work schedule shall be submitted to Contracting Officer for written approval prior to schedule change.

Project Contacts

RESEARCH LEADER (RL)

[REDACTED]

Phone: [REDACTED]

Email: [REDACTED]

ADMINISTRATIVE OFFICER (AO)

[REDACTED]

[REDACTED]

[REDACTED]

ENGINEERING PROJECT MANAGER (EPM) & (CO)

[REDACTED]

[REDACTED]

Email: [REDACTED]

AREA SAFETY AND HEALTH MANAGER (ASHM)

[REDACTED]

[REDACTED]

Email: [REDACTED]

Statement of Work
USDA, Agricultural Research Service

Photos



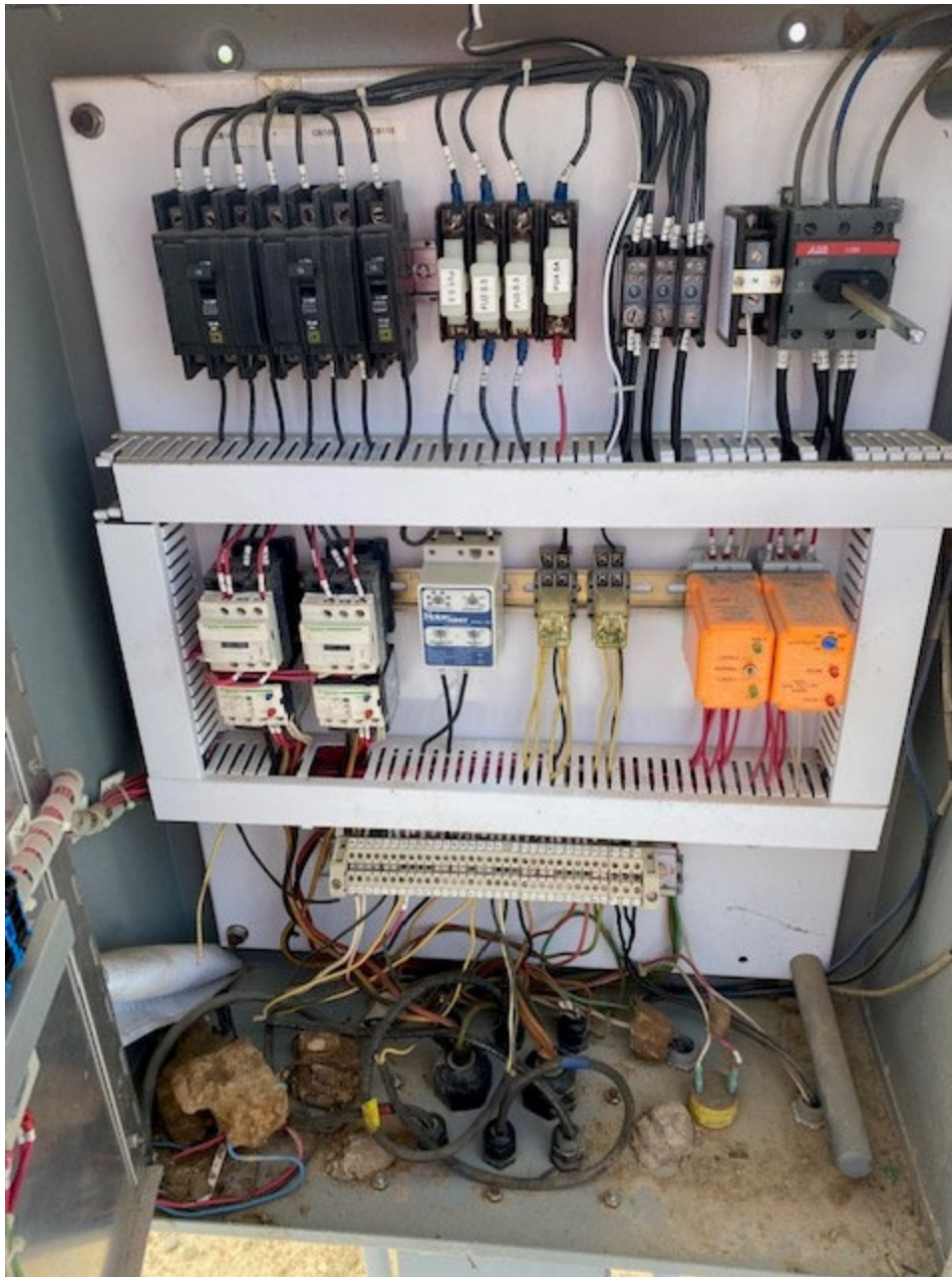
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SERVICE MUST BE DONE BY A QUALIFIED ELECTRICIAN
 A SEPARATE NEUTRAL & GROUND ARE
 REQUIRED 10 THRU 100 AMP AS THE NEUTRAL
 IS 1/2 PER AMP.

The diagram shows a complex electrical circuit with multiple components and connections. Key elements include:

- Input lines at the top left labeled 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000.
- Transformers or inductors in the center.
- Resistors and capacitors throughout the circuit.
- Integrated circuits or relays at the bottom right.
- Output lines at the bottom right labeled 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000.

The drawing is partially obscured by a white rectangular object (possibly a piece of tape or a label) and a dark, textured object (possibly a metal plate or a piece of equipment).