

1255 NW 21ST ST POMPANO BEACH FL 33069-1428

Phone: 954-633-6300 Fax: 954-971-7029

Proposal Name: RB22_015 Highland Lakes Well #8 VFD Upgrade - Graybar

Quote Name: SR2790128 ATV930 Modernization

Proposal Number: P-220124-2799389

Quote Number: Q-3713663 **Through Addenda Number:** 0

Sales Representative: Rafael Beato

Conditions of Sale

Except as otherwise provided below, this Quotation is subject to Coordinated Project Terms. See https://www.schneider-electric.us/en/download/document/0100PL0043

Notwithstanding any provision to the contrary in the referenced Coordinated Project Terms or any other documentation provided in connection with this proposal, this quote is valid for 30 days. Quoted lead times are approximate and subject to change.

Schneider Electric reserves the right to amend, withdraw or otherwise alter this submission without penalty or charge as a result of any event beyond its control arising from or due to the current Covid-19 epidemic or events subsequent to this epidemic / pandemic including changes in laws, regulations, by laws or direction from a competent authority.





Introduction

Per our understanding of your request and associated correspondence, Schneider Electric USA, Inc. (SEUSA) Services has based our offer on the information contained within this proposal. If this information is not accurate or there are changes to the proposed scheduling, then additional charges may apply.

Scope of Work

SEUSA Services will perform the Scope of Work identified in this proposal per the following price:

Item #	Scope of Work		Price
1	Designation : 150HP Pump 6, 7 & 8 Mod Product Details : 1-SRVLVMVFDSYS-LV Drive Solutions Modernization and Retrofits		\$37,350.00
	SCOPE OF WORK	Cost:	\$31,724.12
	SR# 2790093		
	WORKSCOPE A: 150HP 18-PULSE VFD RETROFIT		
	1. Schneider Electric USA, Inc (SEUSA) Services proposes to supply (2) 150HP ATV930 Variable Frequency Drive (VFD) into the existing SQD low voltage enclosed drive lineup from FO# 16418630-052, 16418630-053 & FO# 20637671-011. See below for details.		
	DETAILED BOM A		
	3 - ATV930 Type C11N4C VFD (Variable Torque) Rated 150HP @ 480V Normal Duty Continuous Output Rating: 211A		
	 3 - New HMI key pad & adapter plate 3 - Door mounted fan package kit 3 - Control Power Transformer 3 - Misc. Material (accessory wires, fuse blocks & fuses, VFD mounting flanges, etc.) 3 - Devicenet Communication Card 3 - EAA Digital Enablement 		
	CLARIFICATIONS		
	The customer will be responsible for supplying the following: -Submittals, Plan Check, and City Permits if required -Cost and scheduling of power shut downs -All existing electrical drawings of their		



system

-Paint Sample if other than ANSI 61

The ATV930 has built in RJ45 communications ports for (2) Ethernet IP/Modbus TCP ports and (2) Modbus Serial ports. Additional cost will apply for other communications requirements.

NOTICE: Custom engineered solutions from Schneider Electric Services are designed and built to meet applicable UL/ANSI/IEEE standards, but will not carry third party labeling. A UL field evaluation for UL labeling can be provided at additional cost.

18-Pulse applications require the use of the ATV930 series VFD's to allow for DC bus connection.

A new fan package kit and CPT is included but may not be supplied if engineering determines the existing configuration is suitable with the new VFD.

Approval drawings are NOT provided for this solution. If approval drawings are required, additional charges will apply.

VFD Startup is based on a single visit. If additional visits are required due to unavailability of an outage, additional charges will apply.

Installation is not included in this line item.

Item #	Scope of Work	Price
2	Designation: 150HP Pump 6, 7 & 8 Ins StU Product Details: 1-SRVSTRTUPVSDSTD-LV Drive Installation-Commissioning	\$44,625.00
	SCOPE OF WORK Cost:	\$37,920.00
	WORKSCOPE B: 150HP 18-PULSE VFD INSTALLATION	
	1. Schneider Electric USA, Inc (SEUSA) Services proposes to install (3) 150HP ATV930 Variable Frequency Drive (VFD) into the existing SQD low voltage enclosed drive lineup from FO# 16418630-052, 16418630-053 & FO# 20637671-011. See below for details.	



2. SEUSA Services will remove the existing ATV58HC13N4, ATV66HC13N4 & ATV58HC15N4 drive respectively and install a new ATV930 drive in its place. SEUSA Services will replace only the necessary components needed to upgrade the VFD. All other components to be re-used (door, circuit breaker, 18-Pulse components, line reactor, bypass, relays, cabling, door indicating lights, etc.).

WORKSCOPE C: SEUSA SERVICES STARTUP

SKU: SRVRECRSTVFD30MO

- 1. A SEUSA Field Services Technician will perform visual, mechanical and electrical tests on the (3) VFD retrofit(s) listed above, as outlined in our Scopes of Work for Electrical Acceptance Testing (ATP 1910DB1302-120213). You will receive a copy of the test reports which can serve as a benchmark for future preventative maintenance and testing activities. A three (3) week advanced notice is required for scheduling on-site work.
- 2. SE Services is providing a 30-month warranty extension to drives that are successfully tested, started-up, invoiced by SE and paid in full by the customer.

CLARIFICATIONS

NOTICE: Custom engineered solutions from Schneider Electric Services are designed and built to meet applicable UL/ANSI/IEEE standards, but will not carry third party labeling. A UL field evaluation for UL labeling can be provided at additional cost.

The SEUSA FSR may be required to re-locate some peripheral components to allow for installation of the new VFD. Circuit breaker, door, reactors, 18-Pulse components, pilot devices, etc. to remain in place.

18-Pulse applications require the use of the ATV930 series VFD's to allow for DC bus connection.



A new fan package kit and CPT is included but may not be supplied if engineering determines the existing configuration is suitable with the new VFD.

Approval drawings are NOT provided for this solution. If approval drawings are required, additional charges will apply.

VFD Startup is based on a single visit. If additional visits are required due to unavailability of an outage, additional charges will apply.

CUSTOMER RESPONSIBILITIES

Customer is responsible to provide the lifting and/or rigging equipment. If the equipment is not provided by the customer, SEUSA can acquire the equipment and charge the customer the value of the equipment. Please, notify your sales rep. before placing the order.

WORK NOT INCLUDED

Lifting and rigging are not included.

- -Any site-specific meetings or customer specific safety or clearance training greater than one hour conducted during the date of service or required outside the dates of service.
- -Development of switching procedures and-or MOPs.
- -Update of original factory order drawings, unless otherwise noted.
- -Additional site visits or meetings beyond that required to perform the scope of work above.

Labor Type

This job is being quoted for work to be



	performed during normal working hours (M-F 8:00 AM - 5:00 PM excluding Schneider Electric holidays) unless otherwise noted.	
Item #	Scope of Work	Price
3	Designation: 150HP Pump 6, 7 & 8 Drawings Product Details: 1-SRVLVMVFDSYS-LV Drive Solutions Modernization and Retrofits Cost:	\$6,780.00 \$5,760.00
	SCOPE OF WORK	
	WORKSCOPE D: OPTIONAL APPROVAL DRAWINGS	
	1. Schneider Electric Services can provide approval drawings for (3) LV enclosed drive modernization listed in the quote above. The approval drawings will provide detailed layout of the proposed wiring diagram(s) and physical dimensions of the overall equipment	
	2. Approval drawings are available 4-6 weeks after West Chester receipt of order or after the site visit is performed (if applicable).	

Item #	Scope of Work		Price
7	Designation : 300HP Feed Pump Moder Product Details : 1-SRVLVMVFDSYS-LV Drive Solutions Modernization and Retrofits		\$41,250.00
		Cost:	\$35,056.14
	SR# 2790093		
	WORKSCOPE A: 300HP 18-PULSE VFD RETROFIT		
	1. Schneider Electric USA, Inc (SEUSA) Services proposes to supply (3) 300HP ATV930 Variable Frequency Drive (VFD) into the existing SQD low voltage enclosed drive lineup from FO# 16418630-054. See below for details.		
	DETAILED BOM A		
	3 - ATV930 Type C22N4C VFD (Variable Torque) Rated 350HP @ 480V Normal Duty Continuous Output Rating: 427A		



- 3 New HMI key pad & adapter plate
- 3- Door mounted fan package kit
- 3- Control Power Transformer
- 3 Misc. Material (accessory wires, fuse blocks & fuses, VFD mounting flanges, etc.)
- 3 Devicenet Communication Card
- 3 EAA Digital Enablement

CLARIFICATIONS

The customer will be responsible for supplying the following:

- -Submittals, Plan Check, and City Permits if required
- -Cost and scheduling of power shut downs
- -All existing electrical drawings of their system
- -Paint Sample if other than ANSI 61

The ATV930 has built in RJ45 communications ports for (2) Ethernet IP/Modbus TCP ports and (2) Modbus Serial ports. Additional cost will apply for other communications requirements.

NOTICE: Custom engineered solutions from Schneider Electric Services are designed and built to meet applicable UL/ANSI/IEEE standards, but will not carry third party labeling. A UL field evaluation for UL labeling can be provided at additional cost.

18-Pulse applications require the use of the ATV930 series VFD's to allow for DC bus connection.

A new fan package kit and CPT is included but may not be supplied if engineering determines the existing configuration is suitable with the new VFD.

Approval drawings are NOT provided for this solution. If approval drawings are required, additional charges will apply.

VFD Startup is based on a single visit. If additional visits are required due to unavailability of an outage, additional charges will apply.

Installation is not included in this line item.



Item #	Scope of Work	Price
8	Designation: 300HP Feed Pump Ins & StU Product Details: 1-SRVSTRTUPVSDSTD-LV Drive Installation-Commissioning	\$44,620.00
	SCOPE OF WORK <u>Cost:</u>	\$37,920.00
	WORKSCOPE B: 300HP 18-PULSE VFD INSTALLATION	
	1. Schneider Electric USA, Inc (SEUSA) Services proposes to install (3) 300HP ATV930 Variable Frequency Drive (VFD) into the existing SQD low voltage enclosed drive lineup from FO# 16418630-054. See below for details.	
	2. SEUSA Services will remove the existing ATV58HC23N4X drive and install a new ATV930 drive in its place. SEUSA Services will replace only the necessary components needed to upgrade the VFD. All other components to be re-used (door, circuit breaker, 18-Pulse components, line reactor, bypass, relays, cabling, door indicating lights, etc.).	
	SKU: SRVRECRSTVFD30MO	
	1. A SEUSA Field Services Technician will perform visual, mechanical and electrical tests on the (3) VFD retrofit(s) listed above, as outlined in our Scopes of Work for Electrical Acceptance Testing (ATP 1910DB1302-120213). You will receive a copy of the test reports which can serve as a benchmark for future preventative maintenance and testing activities. A three (3) week advanced notice is required for scheduling on-site work.	
	2. SE Services is providing a 30-month warranty extension to drives that are successfully tested, started-up, invoiced by SE and paid in full by the customer.	
	CLARIFICATIONS	
	NOTICE: Custom engineered solutions from	



Schneider Electric Services are designed and built to meet applicable UL/ANSI/IEEE standards, but will not carry third party labeling. A UL field evaluation for UL labeling can be provided at additional cost.

The SEUSA FSR may be required to re-locate some peripheral components to allow for installation of the new VFD. Circuit breaker, door, reactors, 18-Pulse components, pilot devices, etc. to remain in place.

18-Pulse applications require the use of the ATV930 series VFD's to allow for DC bus connection.

A new fan package kit and CPT is included but may not be supplied if engineering determines the existing configuration is suitable with the new VFD.

Approval drawings are NOT provided for this solution. If approval drawings are required, additional charges will apply.

VFD Startup is based on a single visit. If additional visits are required due to unavailability of an outage, additional charges will apply.

CUSTOMER RESPONSIBILITIES

Customer is responsible to provide the lifting and/or rigging equipment. If the equipment is not provided by the customer, SEUSA can acquire the equipment and charge the customer the value of the equipment. Please, notify your sales rep. before placing the order.

WORK NOT INCLUDED

Lifting and rigging are not included.

-Any site-specific meetings or customer specific safety or clearance training greater than one hour conducted during the date of service or required outside the dates of service.



	-Development of switching procedures and-or MOPs. -Update of original factory order drawings, unless otherwise noted. -Additional site visits or meetings beyond that required to perform the scope of work above.	
	Labor Type This job is being quoted for work to be performed during normal working hours (M-F 8:00 AM - 5:00 PM excluding Schneider Electric holidays) unless otherwise noted.	
Item #	Scope of Work	Price
9	Designation : 300HP Feed Pump Drawings Product Details : 1-SRVLVMVFDSYS-LV Drive Solutions Modernization and Retrofits <u>Cost:</u>	\$2,260.00 \$1,920.00
	SCOPE OF WORK WORKSCOPE D: OPTIONAL APPROVAL DRAWINGS 1. Schneider Electric Services can provide approval drawings for (1) LV enclosed drive modernization listed in the quote above. The approval drawings will provide detailed layout of the proposed wiring diagram(s) and physical dimensions of the overall equipment 2. Approval drawings are available 4-6 weeks after West Chester receipt of order or after the site visit is performed (if applicable).	
Item #	Scope of Work	Price
10	Designation: Optional Lifting Equipmen Product Details: 1-SRVSPALVMVFD-LV Drive Spare Parts - Other	\$4,120.00

Item #	Scope of Work		Price
12	Designation: (3) 20HP VFD Mod Bucket		\$18,150.00
	Product Details : 1-SRVLVMVFDSYS-LV Drive Solutions Modernization and Retrofits	Cost:	\$15,422.86



SCOPE OF WORK
SR# 2833934
1. Schneider Electric USA, Inc (SEUSA) Services to supply (3) 20HP ATV630 Variable Frequency Drive (VFD) in buckets for existing SQD low voltage Model 6 MCC lineup FO# 16418630-001 for cell 3E, 4E and 5E. See below for details.
CLARIFICATIONS
Customer needs 39 inches of space per VFD in order to fit this solution.
Schneider Electric Services has prepared this quotation in good faith, according to our understanding of the information and/or specification(s) provided. Schneider Electric reserves the right to offer revised pricing, Bills of Material or Scope of Work in the event of an omission or misinterpretation of the specification.
Delivery time is subject to change due to availability of parts.
Installation labor is not included in this line item of the quotation.
Detailed Bill of Material
1-Model 6 LVMCC-Model 6 MCC - Standard Package
RapidSource (CTO)
POWER SYSTEM DATA: System Voltage: 480V 3PH 3W 60Hz Max Available Fault Current (RMS): 65kA Control Power: 120Vac



ENCLOSURE DATA: General Purpose Type 1 Gasketed Enclosure Exterior Color: ANSI 49

COMMON DEVICE FEATURES:

Unit(s) Only

Wiring Type: Class 1 Type B Wiring

Drawing Format: PDF - Single Multi Page File Unit Nameplate White Surface / Black Letters

PRODUCT ACCESSORIES:

See Common Device Features

ADJUSTABLE SPEED DRIVES

3 - Please contact plant for delivery schedule. Published delivery schedule may not apply.

Altivar 630 Process AC Drive 20 HP

w/Circuit Breaker

Rated for Normal Duty (Overcurrent 110%

(60 sec))

CAT# ATV630D15

COMMON ADJUSTABLE SPEED DRIVE FEATURES

System Impedance (5%)

150VA Control Power Transformer

#16 AWG MTW Control Wire

DeviceNet Communication

ASD 22mm XB5 Pilot Devices

Hand-Off-Auto SW with Manual Speed

Potentiometer

Motor On LED Pilot Light: Red Push-to-Test

Motor Off LED Pilot Light: Green

Push-to-Test

Power On LED Pilot Light: Red

Fishtape Unit Plugs Device Height - 30 in

MISCELLANEOUS DEVICES

3 - 28 Amps Line Reactor for Drive

COMMON MISCELLANEOUS DEVICE FEATURES

Fishtape Unit Plugs

Device Height - 9 in

Device Height - 9 in

Item #	Scope of Work	Price
13	Designation: (3) 20HP VFD Inst & StUp	\$6,870.00
	Product Details: 1-SRVSTRTUPVSDSTD-LV Drive Installation-Commissioning Cost:	\$5,837.36



SCOPE OF WORK

WORKSCOPE B: 20HP VFD INSTALLATION

- 1. Schneider Electric USA, Inc. (SEUSA) Services to install (3) 20HP ATV630 Variable Frequency Drive (VFD) buckets into the existing SQD low voltage Model 6 MCC lineup FO# 16418630-001 cell 3E, 4E and 5E. See below for details.
- 2. SEUSA Services will remove the existing line reactor bucket (12 inches) and ATV58 bucket (27 inches) and install a new line reactor bucket (9 inches) and ATV630 bucket (30 inches) in its place.

WORKSCOPE C: SEUSA SERVICES START-UP

SKU: SRVRECRSTVFD30MO

- 1. A SEUSA Field Services Technician will perform visual, mechanical and electrical tests on the (3) VFD modernization(s) listed above, as outlined in our Scopes of Work for Electrical Acceptance Testing (ATP 1910DB1302-120213). You will receive a copy of the test reports which can serve as a benchmark for future preventative maintenance and testing activities. A three (3) week advanced notice is required for scheduling on-site work.
- 2. SE Services is providing a 30-month warranty extension to drives that are successfully tested, started-up, invoiced by SE and paid in full by the customer.

CLARIFICATIONS

Approval drawings are NOT provided for this solution. If approval drawings are required, additional charges will apply.

VFD Startup is based on a single visit. If additional visits are required due to unavailability of an outage, additional charges will apply.

If motor nameplate information was not



provided at time of quote, replacement VFD will be based on existing VFD HP ratings.	
CUSTOMER RESPONSIBILITIES	
The customer will be responsible for supplying the following: -Submittals, Plan Check, and City Permits if required -Cost and scheduling of power shut downs -All existing electrical drawings of their system	
WORK NOT INCLUDED	
-Any site-specific meetings or customer specific safety or clearance training greater than one hour conducted during the date of service or required outside the dates of service.	
-Development of switching procedures and-or MOPs.	
-Update of original factory order drawings, unless otherwise noted.	
-Additional site visits or meetings beyond that required to perform the scope of work above.	
Labor Type	
This job is being quoted for work to be performed during normal working hours (M-F 8:00 AM - 5:00 PM excluding Schneider Electric holidays) unless otherwise noted.	

Cost \$175,060.48 Total: \$206,025.00



This Graybar quote is based on the terms of sale in the EV2370 Master Agreement which can be found by clicking the link found at

https://www.omniapartners.com/hubfs/PUBLIC%20SECTOR/Supplier%20Information/Graybar/EV2370_Graybar_MAD_2017_12_20.pdf

- Unless otherwise noted, an outage will be required to perform the work. Duration of this outage to be determined at time of scheduling.
- If any additional electrical or mechanical defects are found during our investigation, these will be brought to your immediate attention. Authorization for these repairs and their costs will be agreed upon before any additional work is performed.





Customer Responsibilities

- Schedule power outage with the local utility or production and absorb all related costs.
- Provide lighting and 120V power with GFI for Field Services' on-site electrical equipment, if required.
- Provide qualified personnel to de-energize / re-energize equipment as defined by NFPA70E.
- Provide qualified personnel to lock out equipment and verify zero energy state as defined by NFPA70E.
- Provide qualified individual for grounding of equipment as required.
- Provide proper workspace clear of obstruction with adequate temporary lighting for the walk ways and emergency exits. *Work will not commence until adequate lighting is in place. *
- Provide a phone with defined emergency contact and site location in event of an emergency.
- Provide an authorized person to sign all manifests for asbestos and PCB wastes (if any)
- Labor and expense cost overruns due to:
 - Delays by others
 - Lack of equipment readiness for services outline herein

Work Not Included

- Any site-specific meetings or customer specific safety or clearance training greater than one hour conducted during the date of service or required outside the dates of service.
- Development of switching procedures and/or MOP's.
- Update of original factory order drawings.
- Additional site visits or meetings beyond that required to perform the scope of work above

Schedule

Services should be scheduled at least 10 working days in advance (20 days for holidays), and cancelled at least two working days in advance of scheduled start of service.

Price

Price includes all travel, mileage, expenses, and any applicable Field Service Reports that will document and detail the services performed.

This proposal is subject to the following:

- Price quoted does not include any state, federal, or local taxes.
- Service will be scheduled after receipt of order.
- If tax exempt, exempt certificate must accompany purchase order.
- Payment is due upon receipt of invoice.



Shipment Clarification

All lead-times referenced within this proposal are estimates only, unless specifically noted as a committed ship date. Due to the extreme volatility and shortages in the commodities markets, lead-times may increase. We will do what we can, within our control, to hold lead-times. In the event that a lead-time may increase, we will notify you as soon as we are aware, to lessen the impact to the project.

Payment Schedule

All projects will be billed based on execution milestones, schedule of values to be provided after receipt of PO. SEUSA may invoice purchaser monthly for all work performed, and for all equipment delivered to the job site or to an off-site storage facility. Purchaser may delay the work, for a period not to exceed 60 days, by giving notice to SEUSA, and purchaser shall pay for all work prior to the delay and will pay all costs incurred by SEUSA because of such delay.

Proposal Acceptance

Due to the extreme volatility in the commodities markets, this quotation is valid for only 30 days. Currently there is extreme volatility in the steel markets (especially electrical steel) due to the evolving nature of the tariffs. We will do our best to hold the pricing but there are many factors beyond our control and these potential increases would be passed along to the customer. It is also assumed that this project will be executed within 12 months. If the execution timeline of this project exceeds this timeframe, any price escalations would also be passed along to the customer. In addition, any changes to the Scope of Work or Bill of Material will require a revised quotation which may result in a price change.

The following information is required:

- Site contact name
- > Phone number
- > Email address

Please also include SEUSA account number (if known).

Information on Additional Offers

- Electrical Distribution Services Website
- Modernization & Upgrade:
 - Website: Schneider Electric Modernization Solutions
 - Blog: True Cost of Switchgear Replacement
 - White Paper: Guidelines for Modernizing Existing Switchgear
 - Videos: Resource webpage
 - Brochure: Switchgear Modernization Brochure
 - Catalog: Circuit Breaker Modernization Selection Guide
- Arc Flash Safety:
 - Website: Schneider Electric Arc Flash Safety
 - Blog: NFPA 70E 2018 Updates
 - White Paper: Mitigating Arc Flash Hazards
 - Video: Power System Assessment



Brochure: Engineering Services

Terms and Conditions

The work described in This quotation shall be governed by Schneider Electric's Standard Terms and Conditions of Sale, which may be found at:

www.schneider-electric.us/termsandconditions

This proposal has been distributed to you on a confidential basis for your information only. By accepting it, you agree not to disseminate it to any other person or entity in any manner and not to use the information for any purpose other than considering opportunities for a cooperative business relationship with Schneider Electric.

DISCLAIMER: The Customer acknowledges that the products or part thereof are produced in, or otherwise sourced from, or will be installed areas already affected by, or that may be affected in the future by, the prevailing COVID-19 epidemics/pandemic and that the situation may trigger stoppage, hindrance or delays in Vendor's (or its subcontractors) capacity to produce, deliver, install or service the products, irrespective of whether such stoppage, hindrance or delays are due to measures imposed by authorities or deliberately implemented by the Vendor (or its subcontractors) as preventive or curative measures to avoid harmful contamination exposure of Vendor's (or its subcontractors') employees. The Customer therefore recognizes that such circumstances shall be considered as a cause for **excusable delay** not exposing the Vendor to contractual sanctions including without limitation delay penalties, liquidated or other damages or termination for default.

Schneider Electric reserves the right to amend, withdraw or otherwise alter this submission without penalty or charge as a result of any event beyond its control arising from or due to the current Covid-19 epidemic or events subsequent to this epidemic / pandemic including changes in laws, regulations, by laws or direction from a competent authority.

