

**EXHIBIT B
Continued
BID FORM
RFP # 2016085
Utilities Inc. of Florida – Mid County
Mid County Electrical Service & 500 Kw Generator Improvements**

The bidder has verified and included the following items in the sealed bid:

- [●] Exhibit B Bid Form for RFP # 2016085
- [●] Exhibit C Subcontractor Vendor List
- [●] Exhibit D Trench Safety Statement
- [●] Inserted all above into the sealed envelope address to:
Utilities Inc. of Florida
200 Weathersfield Avenue
Altamonte Springs, FL 32714
Mid County Electrical Service and 500 Kw Generator Improvements
RFP # 2016085 Bid Proposal
Bid Security Form is not required for this RFP.

APG Electric, Inc.
Company Name



11/29/2016

Signature

Date

Terry Ryan -- Preconstruction Special Projects
Printed Name and Title

4825 140th Avenue North
Company Address

Clearwater FL 33762
City State Zip Code

727-530-0077 727-530-0045
Telephone No. Facsimile No.

estimating@apg.company
E-mail Address

Notary Public



Alicia N. Flounoy
NOTARY PUBLIC
STATE OF FLORIDA
Comm# FF168780
Expires 10/15/2018


Signature of Notary

STATE OF FLORIDA
COUNTY OF Pinellas

The foregoing instrument was acknowledge
before me this 29th day of November, 2016, by
Terry Ryan

Personally Known Produced Identification
Type of ID: _____

**EXHIBIT D
TRENCH SAFETY STATEMENT
RFP # 2016085
Utilities Inc. of Florida – Mid County
Mid County Electrical Service & 500 Kw Generator Improvements**

Bidder acknowledges that included in the various items of the proposal contained on the Bid Form are costs for complying with the Florida Trench Safety Act (FS 553.60-553.64). The Bidder further identifies the cost of compliance with the applicable trench safety standards for the project as follows (Bidder to attach additional sheets as necessary to identify all costs):

	Trench Safety Measure (Description)	Units of Measure (LF, SF, SY)	Unit Quantity	Unit Cost	Extended Cost
A	t/b/d			INCLUDED	
B					
C					
D					
E					
F					
TOTAL					\$

NOTE: All excavating and backfill is included in Electrical Service Upgrade cost.

The total cost shown herein is already included in the various items on the Bid Form and is not additional to the pricing shown on the Bid Form.

Bidder, by signature below, assures that the contractor performing trench excavating will comply with the applicable Trench Safety Standards.

Submitted, signed and sealed this 29th day of November, 2016.

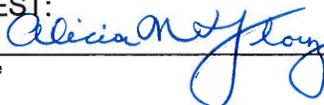
APG Electric, Inc.

Company Name

 _____
Signature Date 11/29/2016

Terry Ryan -- Preconstruction Special Projects

Printed Name and Title

ATTEST:
 _____
Signature Date 11/29/2016

Notary Public



Alicia N. Flounoy
NOTARY PUBLIC
STATE OF FLORIDA
Comm# FF168780
Expires 10/15/2018

(SEAL)

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November 29, 2016

Utilities, Inc. of Florida
200 Weathersfield Ave.
Altamonte Springs, FL 32714-4027

Attn: Michael Wilson (via email: mawilson@uiwater.com)

**RE: Mid-County Electrical Service and 500 kW Generator Improvements
Dunedin, FL**

Dear Michael,

The following is our cost proposal for electrical work as shown on Electrical Drawings E0 through E5 dated September 16, 2016 – in full accordance with project specifications, local codes and ordinances.

BID AMOUNT\$ SEE BID FORM

SCOPE OF WORK

MOBILIZATION AND PERMITTING

ELECTRICAL SERVICE UPGRADE

- Method of procedures / master plan
- Two (2) 4-inch PVC conduits for Duke primary
- Pad for Duke transformer
- Furnish and install new panels and transformers
- Furnish and install surge protection devices
- Stainless steel racks for service locations
- Hand dig excavation for new feeders
- Compaction and shell replacement
- Copper feeders utilizing PVC or aluminum conduit
- Feeder tie-ins to existing panels / equipment
- Grounding with test wells and reports
- Megger testing of all feeders

ELECTRICAL CONTROLS AND PROGRAMMING UPGRADE

- | | | |
|---|----------------|---------------|
| • Blower Control Cabinet #1 (Sheet E2-A, Notes 6-12) | New Panel | UL 508 |
| • Blower Control Cabinet #2 (Sheet E2-A, Notes 13-19) | Field Modified | UL Evaluation |
| • Surge Tank Blower Control Cabinet (Sheet E2-A, Notes 20-22) | Field Modified | UL Evaluation |

• Surge Pumps Control Cabinet (Sheet E2-A, Notes 23-32)	Field Modified	UL Evaluation
• Master Lift Station Control Cabinet (Sheet E2-A, Notes 33-37)	New Panel	UL 508
• Odor Control Cabinet (Sheet E2-A, Notes 38-43)	Field Modified	UL Evaluation
• Blowers Timer Control Cabinet (Sheet E2-B, Notes 9-11)	New Panel	UL 508
• Backwash Blower #1 Control Cabinet (Sheet E2-C, Notes 5-10)	Field Modified	UL Evaluation
• Backwash Blower #2 Control Cabinet (Sheet E2-C, Notes 5-10)	Field Modified	UL Evaluation
• Backwash Pump #1 Control Cabinet (Sheet E2-C, Notes 13-17)	Field Modified	No UL Evaluation
• Backwash Pump #2 Control Cabinet (Sheet E2-C, Notes 13-17)	Field Modified	No UL Evaluation
• Plant Water Pump Control Cabinet (Sheet E2-C, Notes 18-24)	Field Modified	UL Evaluation
• Instrument Air Compressor Control Cab. (Sheet E2-C, Notes 30-33)	Field Modified	UL Evaluation
• SOMAT Control Cabinet (Sheet E2-D, Notes 5-10)	Field Modified	UL Evaluation
• Filter Feed Control Cabinet #1 (Sheet E2-D, Notes 11-20)	Field Modified	UL Evaluation

Notes:

- Each panel provided with CAD drawings listing manufacturer catalog numbers and wiring diagram.
- All new panels are NEMA 4X type 304 stainless steel.
- All panels are programmed and tested.
- Required field wiring.

ENGINEERED SLAB AND CONSTRUCTION

- 20' x 20' x 2' deep concrete slab with double mat of reinforcing steel
- Engineered (stamped) drawings

GENERATOR PACKAGE

- 480 volt, 3-phase, 500 kW, tier-4, diesel generator
- Weather proof, sound attenuated aluminum enclosure
- Enclosure PE certified at 200 mph wind load
- 2000 gallon sub-base tank
- 100 amp load center
- Four (4) light fixtures
- Service receptacles
- Annunciator panel
- Two (2) remote emergency shunt trip reset buttons
- 1000 amp, 480 volt, 3-phase, service entrance rated automatic transfer switch
- Start-up load bank testing

GENERATOR INSTALLATION (cost of this work is with Electrical Service Upgrades)

- Rigging / setting generator on pad
- Installation of gen set, tank, enclosure
- Wire terminations of feeders, start circuits, miscellaneous power & control circuits, annunciator wiring
- Lightning protection on generator
- Installation of automatic transfer switch
- Installation of remote shunt trip devices
- Diesel fuel fill-up of tank after testing

MECHANICAL CONTRACTOR (APG)

- Re-wiring of motor leads to 480 volt (in lieu of 240 volt hi-leg) if multi-leads exist
- Testing of motor rotation
- New seal tight electrical connections
- Report and coordination for re-wiring or replacement of motors (if required)
- Owner to provide allowance (cover cost) of any motor re-wiring or replacement

Note:

- APG will track all activity on Motor Matrix spreadsheet (see attachment).

DEMOLITION AND REMOVAL

- Disconnect and rigging out of existing generator. Generator to be placed on site for owner removal (sell?)
- Disconnect and remove all existing panels, transformers, and control equipment as called for on documents
- Remove all existing wiring as required
- Demolish and remove existing building which houses existing generator (this work is permitted)

Note:

- Trash materials will be placed in dumpster on site (dumpster is to be provided by others).
- Removal of demolished generator building from site is included.

TESTING AND TRAINING

- Megger test on all feeders (recorded)
- Ground resistant testing (recorded)
- All control panels tested and UL Certified
- Motor rotation
- Owner commissioning

AS-BUILT AND CLOSE-OUT DOCUMENTS

- As-Built drawings on CAD

ALTERNATES

- 1) Provide alternate enclosures for the gear (panels, transformers) in lieu of standard NEMA 3R enclosures as specified.

- A) Power coating

ADD\$ 3,800.00

B) NEMA 4X stainless steel

ADD\$ 43,000.00

Note: Item 1A or 1B may be taken, not both.

2) Provide NEMA 4X stainless steel enclosure for 1000 amp transfer switch in lieu of standard NEMA 3R type as specified.

ADD\$ 9,800.00

3) Provide (qty. 3) site lighting (LED) fixtures mounted on owner-furnished poles.

ADD\$ 5,400.00

Note: To be controlled via photo cell.

4) Provide extended warranty and maintenance agreements for the generator as follows:

A) Warranty for 5 years

ADD\$ 2,300.00

B) Warranty for 10 years

ADD\$ 8,400.00

Note: Item 4A or 4B may be taken, not both.

C) Maintenance for 5 years

ADD\$ 3,700.00 / per year

D) Maintenance for 10 years

ADD\$ 4,600.00 / per year

Note: Item 4C or 4D may be taken, not both.

5) Provide extended warranty on automatic transfer switch as follows:

A) Warranty for 5 years

ADD\$ 2,500.00

B) Warranty for 10 years

ADD\$ 9,800.00

Note: Item 5A or 5B may be taken, not both.

CLARIFICATIONS

The following costs are **EXCLUDED** from our bid proposal:

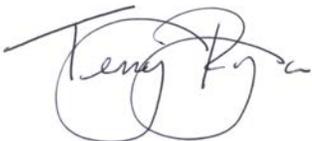
- 1) Payment and Performance Bond.
- 2) Utility company service charges for permanent and/or temporary electrical service.
- 3) Utility company energy consumption charges.
- 4) Off-site parking and lay down areas for material storage.
- 5) Electrical Engineering.
Note: This contract is direct with APG Engineering and Utilities, Inc. of Florida.
- 6) Re-building or replacement of existing motors.
Note: As discussed, these motors will be addressed on a one-by-one evaluation and paid for by owner.
- 7) Methanol control cabinet (by owner, see Note #25 on Drawing E2-C).
Note: Installation is included.

The following costs are **INCLUDED** in our bid proposal in addition to what is shown on bid documents:

- 1) Permit cost (an allowance of \$15,000).
Note: Cost has not been verified yet.
- 2) Removal of trash from site.
- 3) State and County sales tax on all materials.

We want to thank you for the opportunity to present our proposal, and look forward to working with you on this project.

Sincerely,
APG Electric, Inc.



Terry Ryan
Preconstruction Special Projects

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MID-COUNTY MOTOR MATRIX

	MOTOR	HORSEPOWER RATING	NEW VOLTAGE	ACCEPTS NEW VOLTAGE	REQUIRES FIELD MODIFICATIONS	REQUIRES REPLACEMENT	DATE
1	Methanol Pumps	0.5	480				
2	Backwash Blower #1	40	480				
3	Backwash Blower #2	40	480				
4	Air Compressor	3	480				
5	Air Compressor	3	480				
6	Backwash Water Pump #1	7.5	480				
7	Backwash Water Pump #2	7.5	480				
8	Plant Water Pump	7.5	480				
9	Blower #1	40	480				
10	Blower #2	40	480				
11	Blower #3	40	480				
12	Blower #4	40	480				
13	Clarifier Drive	0.75	208				
14	Clarifier Drive	0.75	208				
15	Master Lift Station	20	480				
16	Master Lift Station	20	480				
17	Odor Control Scrubber	5	480				
18	Screw Conveyor	0.75	208				
19	Surge Pump	15.5	480				
20	Surge Pump	10	480				
21	Filter Blower #1	75	480				
22	Filter Blower #2	75	480				
23	Surge Tank Blower	15	480				
24	Filter Feed Pumps	7.5	480				
25	Sludge Transfer Pumps	3	480				
26	SOMAT Presses	5	480				
27	Flocculator Mixer	0.5	480				
28	Sludge Pump West	1	480				