

# **Solar Project**

Beta Proposal No. BP3692 March 14, 2019







March 14, 2019



Attn: Mr.

Subject:

138/34.5kV Substation Beta Proposal No. BP3692

Dear Mr.

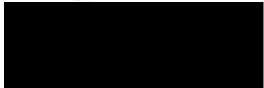
Beta Engineering's Agile Team is pleased to submit a budgetary proposal for the design, procurement, construction, and commissioning of the 138/34.5kV Substation for the Solar Project. Beta's proposal is based on the attached sections as referenced in the Table of Contents.

We hope you enjoy the innovative approach to substation design and construction documented in this proposal, and look forward to working with project.

We appreciate the opportunity to submit this proposal and are excited about working with you and your team.

Sincerely,

BETA ENGINEERING, LLC



Eric Veuleman, PE
<u>Eric.Veuleman@BetaEngineering.com</u>
(318) 767-5601



Michael Bergeron, P.E., PMP Vice President Proposal Development <u>Michael.Bergeron@BetaEngineering.com</u> (318) 767-5566



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# **Proprietary Statement**

Beta Proposal BP3692
Section 1

## **PROPRIETARY STATEMENT**

The information provided in this Proposal is considered confidential and shall not be loaned, reproduced or copied, either wholly or in part, or made public in any manner without the written consent of Beta Engineering.







# **Executive Summary**







# **Executive Summary**

Beta Engineering's Agile Team is pleased to submit this proposal to the High Voltage Collector Substation portion of the Solar Project.

We know that price and schedule are critical components for project success. Using a traditional EPC approach costs too much and takes too long, making you feel like your hands are tied. We understand what's at stake, which is why we are combining proven methods to reduce costs and deliver this project faster and safer.

This proposal details a "no holds barred" approach to substation design and construction. The Agile Team has combined innovative design and construction methods w

This method

yields significant schedule reductions and cost savings.

This Executive Summary provides an overview of the added value that our proposal brings to this project. We are confident that you will find our designs to be technically sound and our pricing to be competitive. We stand ready to leverage our experience and resources to overcome your project challenges.



230 / 34.5 kV Solar Substation



# **Project Innovations**

Beta's Agile Team will leverage the following design innovations to complete the high voltage substation more efficiently than traditional means would allow.



## **Project Execution Plan**





# Design Models

# Safety Performance





## **Demonstrated Experience and Expertise**

Beta has specialized in performing engineering, procurement and construction of high voltage projects for over 40 years. Beta's projects range from 15kV to 500kV and are located

throughout the United States. Beta's areas of expertise include the following:

- Utility Substations
- Industrial Substations
- Generation Switchyards
- Transmission Switchyards
- Transmission Lines
- Distribution Systems
- > FACTS Projects
- > GIS Projects
- > Battery Energy Storage Systems



138kV Switchyard



345kV Switchyard



138kV Switchyard

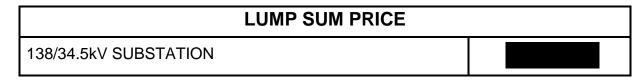


# **Proposal Price Summary**





For the proposed scope of work defined in this budgetary proposal, Beta offers the following lump sum price:



#### Notes:

- 1) Beta's proposal does not include sales and use taxes.
- 2) Beta's proposal does not include performance and payment bonds.
- 3) Beta's proposal assumes builder's risk insurance coverage will be provided by owner.
- 4) Beta's lump sum proposal price is valid for acceptance through April 5, 2019 with a limited notice to proceed on or before April 12, 2019.

BETA ENGINEERING, LLC

Eric Veuleman, PE March 14, 2019

#### 138/34.5 kV Andrews Solar Project Beta Proposal No. BP3692 Preliminary Payment Milestone Schedule 3/14/2019

Milestone Number	Milestone Description	Milestone Completition	% of Contract Amount	Payment Amount
	ENGINEERING			
1	Contract Award			
2	Preliminary Submittal: Civil, Electrical, Relay and Control			
3	Intermediate Submittal: Civil, Structural, Electrical			
4	Issued For Construction: Final Set of Drawings			
	PROCUREMENT			
5	Order Major Equipment (power transformer, breakers, switches, instrument transformers, etc)			
6	Begin Factory-Built-Substation Construction			
	CONSTRUCTION			
7	Mobilize			
8	Deliver Major Equipment			
9	Foundation Construction Complete			
10	Substation Construction Complete			
11	Testing			
	Total Lump Sum Price			

Beta assumes 5% retainage will be withheld from each invoice, and paid at project completion.



# **Proposed Scope of Work**



### 4.1 **GENERAL**

Beta Engineering, LLC, hereinafter identified as Beta, is pleased to provide a proposal for the 138/34.5kV Substation for the solution for the proposal is submitted to the proposal is submit

## 4.2 **DESIGN PARAMETERS**

The intent of Beta is to supply a power installation built of first class workmanship and materials. Design and workmanship will be in full accordance with modern electrical and mechanical practices and with applicable provisions of the following organizations and codes:



This project will be designed and constructed to supply a reliable, functional system which can be maintained with minimum cost and downtime.

### 4.3 REFERENCE DRAWINGS AND SPECIFICATIONS

Beta acknowledges receipt of the following reference information from



4.3.1 RFP Documents received via email on December 18, 2018.

## 4.4 PROPOSED PROJECT SITE

Beta's proposal is based on the proposed project site near was not able to visit the site prior to submitting the proposal. Beta reserves the right to visit the site to observe site conditions prior to contract award.

## 4.5 SUMMARY OF ITEMS TO BE PROVIDED BY OR OTHERS

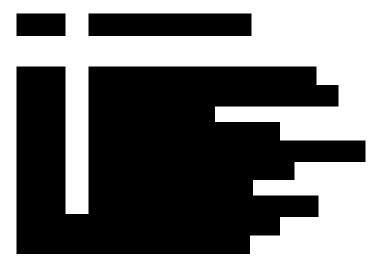
Beta's proposal is based on the following items being provided by or others:



## 4.6 SUMMARY OF ITEMS TO BE PROVIDED BY BETA

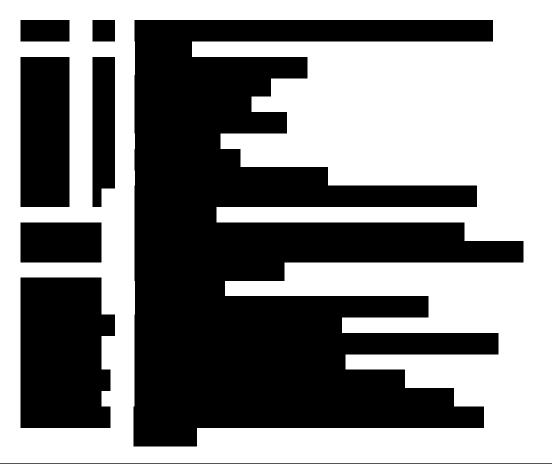
Beta's proposal includes all engineering, procurement, construction and commissioning for the complete 138/34.5kV Substation except for those items identified in this proposal as provided by or others. The major items to be provided by Beta are summarized below.

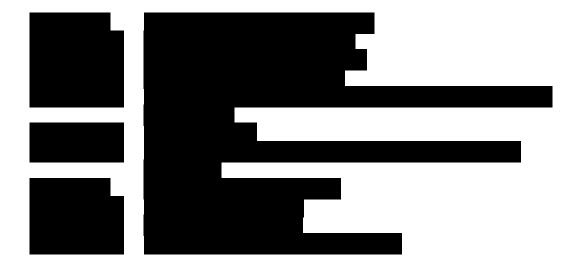
#### 4.6.1 138/34.5kV SUBSTATION



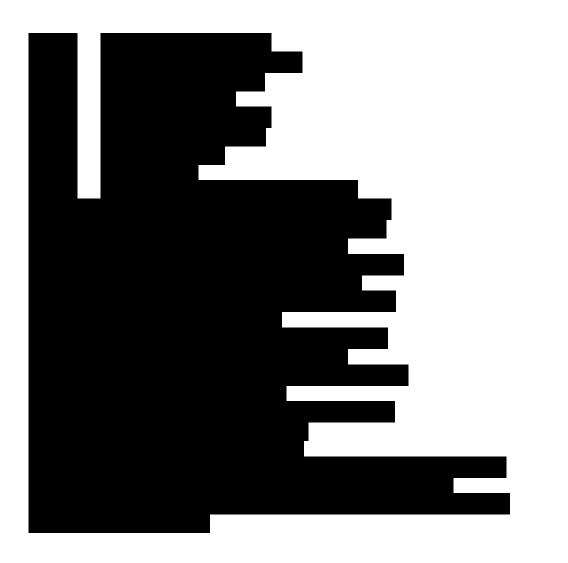


## 4.6.2 Equipment and Material





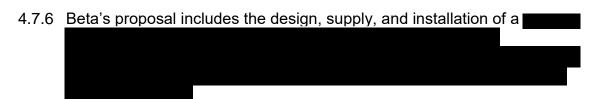
## 4.6.3 Construction Services



## 4.7 PROPOSAL CLARIFICATIONS

4.7.1	Beta has assumed that the 138/34.5kV substation can be constructed
	without encountering subsurface rock, pipes, underground utilities or other
	underground obstructions.

- 4.7.2 Spare parts have not been included in Beta's proposal. Beta will work with to establish a spare parts list and offer a separate proposal for spare parts during the design phase of the project.
- 4.7.3 Beta's proposal is based on the assumption that any hazardous material discovered during construction will be removed and disposed of by others.
- 4.7.4 Beta's proposal is based on the assumption that the soil is adequate to allow the use of the conventional drilled shaft foundations or spread footings for all structures and equipment.
- 4.7.5 Beta's proposal includes the cost to support the document submittals required for permitting. The cost associated with the process is not included in Beta's proposal.



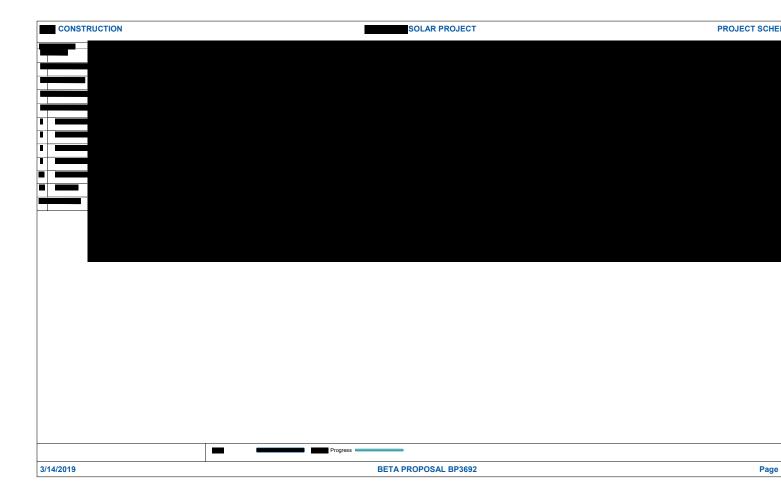


## **Project Schedule**

- 5.1. Beta's proposed schedule is based on an Award Date of
- 5.2. Beta's proposed schedule allows
- 5.3. A simplified bar chart schedule is included in Beta's proposal. A more detailed schedule will be submitted after contract award.
- 5.4. Beta will use software to maintain the schedule of this project. Beta will submit monthly schedule updates to ...









# **Terms and Conditions**





## 6.1. TERMS AND CONDITIONS

Beta will work with to negotiate mutually acceptable terms and conditions upon contract award.

## 6.2. TERMS OF PAYMENT

Beta's proposal is based on the following terms of payment:

- 6.2.1 Payment milestones are based on the milestone schedule included in Section 3 of this proposal.
- 6.2.2 Payment terms shall be net 30 days.

## 6.3. <u>LIMITATION OF LIABILITY</u>

In no event shall Company or Contractor, its subcontractors, vendors of any tier, or their respective officers, directors, employees, agents or affiliates be liable to the other for any indirect, special, incidental or consequential damages of any nature arising at any time for any reason arising out of this Agreement whatsoever, whether based on contract, tort (including negligence), strict liability, professional liability, contribution, warranty, or otherwise, including without limitation loss of anticipated profits, loss by reason of plant shutdown, non-operation or increased expense of operation, service interruptions, cost of purchased or replacement power, claims of customers, or loss of use of capital or revenue.

#### 6.4. LIQUIDATED DAMAGES

Beta's proposal is based on the assumption that liquidated damages will not be applicable to the contract. In the event that liquidated damages, Beta will work with reasonable liquidated damage provisions.

## 6.5. SALES AND USE TAX

Beta's proposal does not include sales taxes.

## 6.6. PERFORMANCE AND PAYMENT BONDS

Beta's proposal does not include the cost of performance and payment bonds.

## 6.7. PRICING FOR "TIME AND MATERIAL" WORK

price v extra v prefer	has a preference of performing any additional work at a fixed lump sum which would be negotiated between and Beta prior to the work being performed. However, in the event that so for extra work to be performed on a time and material basis, the following would apply:
6.8.1	Staff Labor (Employees of Beta Engineering)
6.8.2	Field Labor and Equipment
6.8.3	Material Prices



Classification	Rate Type	Unit of Measure	Rate
President	N/A	Hour	
Vice President	N/A	Hour	
Project Executive	N/A	Hour	
Senior Project Manager	N/A	Hour	
Project Manager III	N/A	Hour	
Project Manager II	N/A	Hour	
Project Manager I	N/A	Hour	
Scheduling Specialist	N/A	Hour	
Project Coordinator III	N/A	Hour	
Project Coordinator II	N/A	Hour	
Project Coordinator I	N/A	Hour	
Administrative Assistant	N/A	Hour	
Construction Manager IV	N/A	Hour	
Construction Manager III	N/A	Hour	
Construction Manager II	N/A	Hour	
Construction Manager I	N/A	Hour	
Procurement Agent III	N/A	Hour	
Procurement Agent II	N/A	Hour	
Procurement Agent I	N/A	Hour	
Project Engineer	N/A	Hour	
Engineer V	N/A	Hour	
Engineer IV	N/A	Hour	
Engineer III	N/A	Hour	
Engineer II	N/A	Hour	
Engineer I	N/A	Hour	
Technician III	N/A	Hour	
Technician II	N/A	Hour	
Technician I	N/A	Hour	
Designer III	N/A	Hour	
Designer II	N/A	Hour	
Drafter I	N/A	Hour	

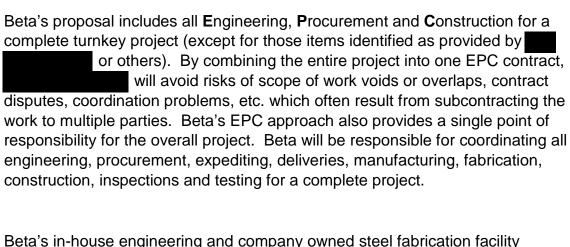


# **Project Execution Plan**



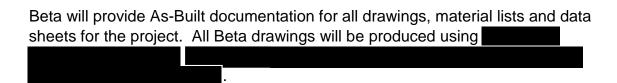


## 7.1 OVERALL PROJECT EXECUTION PHILOSOPHY



Beta's in-house engineering and company owned steel fabrication facility combined with our valued relationship with equipment and material vendors allows us to offer a reliable "fast-track" project.

Beta will assign a full-time Project Manager to the project once a contract has been awarded. The Project Manager will be responsible for the coordination and scheduling of all engineering, procurement and construction activities for the project. The Project Manager will serve as single point contact for the project.



#### 7.2 ORGANIZATION

Beta will assign a project team to the project to ensure a coordinated effort for the successful completion of the project. A sample organization chart is enclosed which illustrates the responsibilities and relationships of the project team.

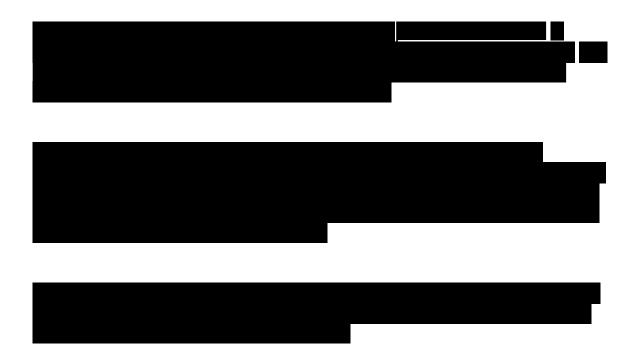
## 7.3 EXECUTION OF THE WORK

Beta will prepare a detailed project schedule to coordinate all engineering, procurement, construction and testing activities for the project. Beta will use Microsoft Project or Primavera software to maintain the schedule of the project. The project schedule will be updated on a regular basis to monitor each activity for the project. Beta will submit monthly schedule updates to

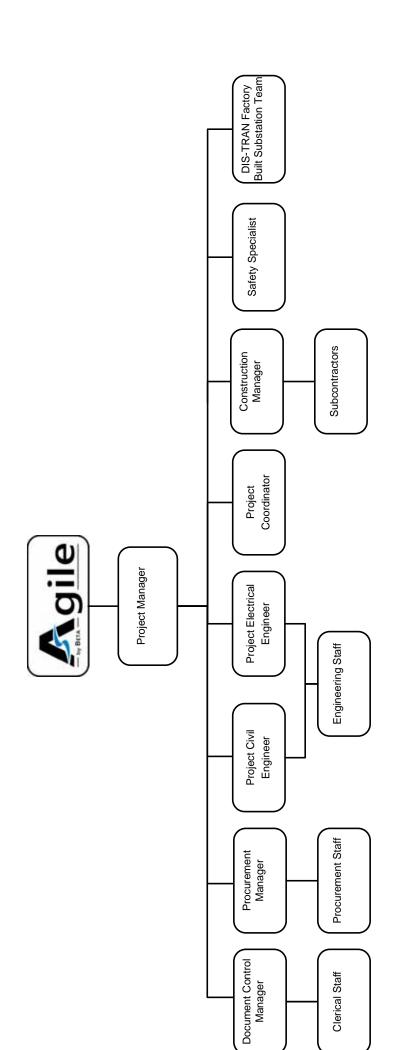
## 7.4 **SUBCONTRACTING**

Beta will self-perform all engineering, procurement, project management and site management activities for the project. Beta will subcontract the civil construction, electrical construction and testing of the project. Beta will submit qualifications for prospective subcontractors following contract award. will have an opportunity to approve all subcontractors prior to Beta issuing subcontracts.

## 7.5 CONSTRUCTION PLAN



# Beta Engineering – Project Organization Chart





# **Proposal Drawings**

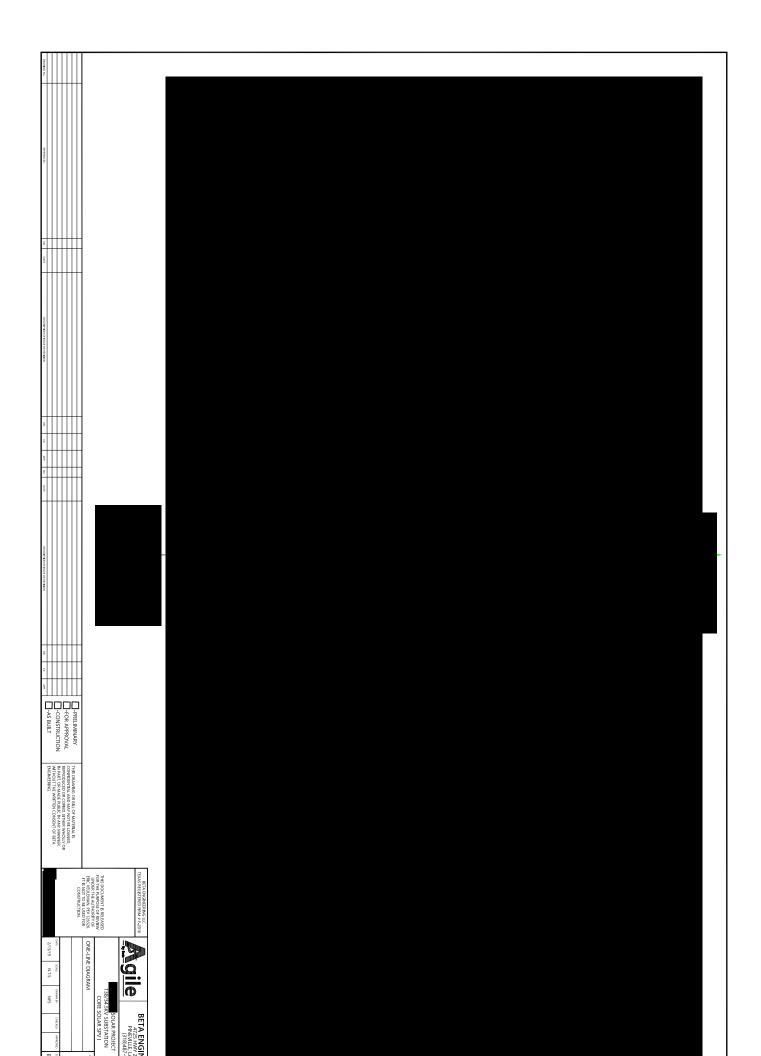
Beta Proposal BP3692 Section 8

The following drawings are part of Beta's proposal:

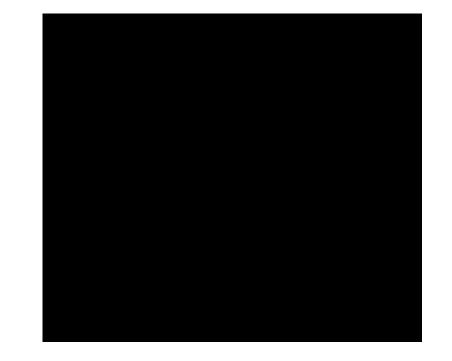
Drawing No.	Rev.	<u>Description</u>
3692-E101	0	One-Line Diagram
3692-E102	0	One-Line Diagram
3692-E201	0	General Arrangement - Plan View







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# **Summary of Equipment Manufacturers**

Beta Proposal BP3692 Section 9

The manufacturers for the major equipment to be provided by Beta are identified below:

<u>Equipment</u>	<u>Manufacturer</u>
<del></del>	

Note: Beta will identify the manufacturer for other equipment to be provided by Beta upon request from .







# **Partial List of Beta Projects**





PROJECT NAME: SPP3 230kV Substation Project

**PROJECT LOCATION:** 

CUSTOMER:

**PROJECT SCOPE:** Design, procurement and construction of 230kV Substation

Α

and 230kV Transmission Line.

PROJECT NAME: HBI Project PROJECT LOCATION:

CUSTOMER:

**PROJECT SCOPE:** Design, procurement and construction of 138/13.8kV

Substation.

PROJECT LOCATION

PROJECT LOCATION:

CUSTOMER:

PROJECT SCOPE: Design, procurement and construction of 230MVA,

115/16.5kV Substation and 115kV Transmission Line.

**Substation Installation Project** 

PROJECT NAME:

PROJECT LOCATION:

**CUSTOMER:** 

TOMER:

**PROJECT SCOPE:** Design, procurement and construction of (6) 500kV series

**GIS Project** 

capacitor banks, transmission line modifications and OPGW

**Corridor Project** 

Capacitor Project

replacements.

PROJECT NAME:

PROJECT LOCATION:

**CUSTOMER:** 

**PROJECT SCOPE:** Design, procurement and construction of 115kV GIS

PROJECT LOCATION

PROJECT LOCATION:

**CUSTOMER:** 

**PROJECT SCOPE:** Design, procurement and construction of 69kV & 4.16kV

**Transmission Lines** 

PROJECT NAME: PROJECT LOCATION:

**CUSTOMER:** 

**PROJECT SCOPE:** Design, procurement and construction of 34.5kV Switchyard

PROJECT NAME: PROJECT LOCATION:

**CUSTOMER:** 

PROJECT SCOPE:

Project

Design, procurement and construction of 230kV Switchyard

PROJECT NAME: PROJECT LOCATION:

**CUSTOMER:** 

PROJECT SCOPE:

Design, procurement and construction of 138/13.2kV Plant

Substation

PROJECT NAME:

PROJECT LOCATION: CUSTOMER:

PROJECT SCOPE:

Project

Design, procurement and construction of 69kV/373V

Substation

PROJECT NAME:

PROJECT LOCATION:

**CUSTOMER:** 

PROJECT SCOPE:

Project

Design, procurement and construction of 34.5kV Distribution

Line

PROJECT NAME: PROJECT LOCATION:

**CUSTOMER:** 

PROJECT SCOPE:

Project
Group

Design, procurement and construction of 70/34.5kV

Substation

PROJECT NAME: PROJECT LOCATION:

CUSTOMER:

**PROJECT SCOPE:** 

Condenser Project

Design, procurement and construction of 225 MVAr

Synchronous Condenser Facility

PROJECT NAME: PROJECT LOCATION:

**CUSTOMER:** 

**PROJECT SCOPE:** 

Design, procurement and construction of 34.5kV Collector, 230/34.5kV Substation and 230kV Transmission Line

PROJECT NAME: PROJECT LOCATION:

**CUSTOMER:** 

PROJECT SCOPE:

Project

Design, procurement and construction of 138kV GIS

Switchyard

**PROJECT NAME:** 

PROJECT LOCATION:

**CUSTOMER:** 

PROJECT SCOPE:

Project

Design, procurement and construction of 115kV GIS

Switchyard

PROJECT NAME:

**PROJECT LOCATION:** 

**CUSTOMER:** 

PROJECT SCOPE:

Project

Design, procurement and construction of 230kV Synchronous Condenser & 230kV GIS Substation

PROJECT NAME: PROJECT LOCATION:

CUSTOMER:

PROJECT SCOPE:

**Substation Project** 

Design, procurement and construction of 69/12kV GIS

Substation

PROJECT NAME:

PROJECT LOCATION:

**CUSTOMER:** 

PROJECT SCOPE:

Project

Design, procurement and construction of three (3)

230/34.5kV +/-125 MVAR SVC

PROJECT NAME: PROJECT LOCATION:

**CUSTOMER:** 

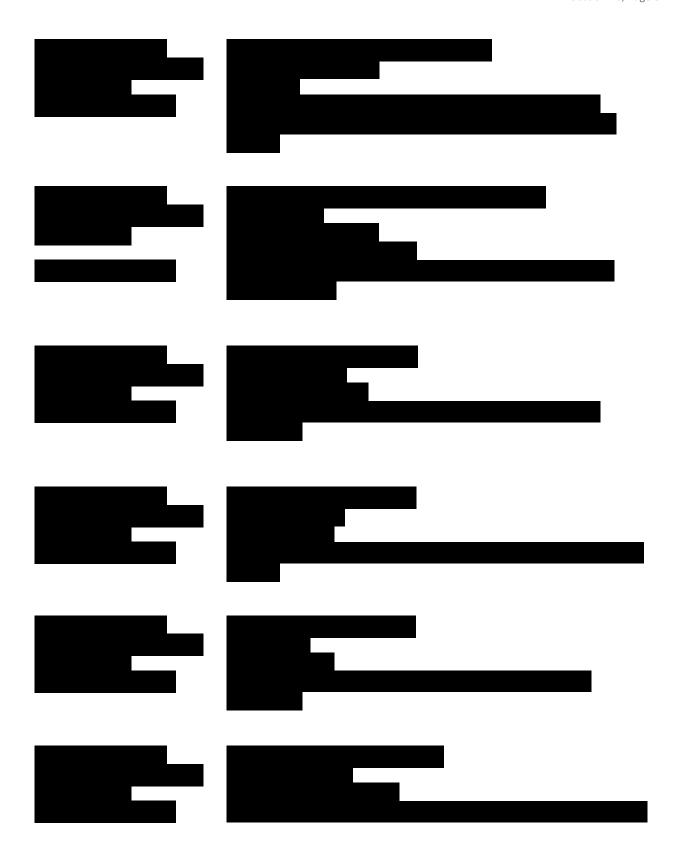
PROJECT SCOPE:

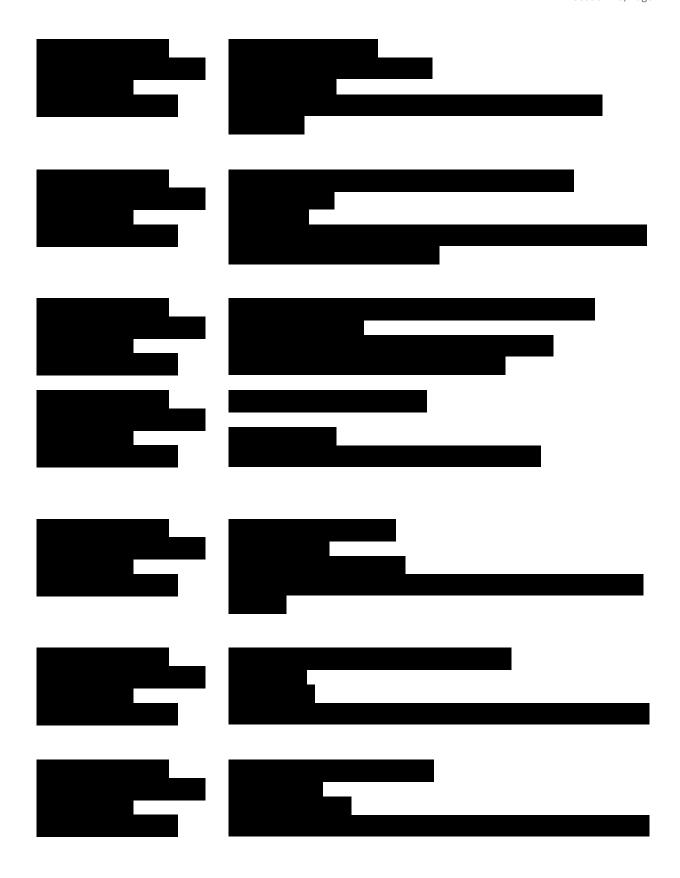
Project

Design, procurement and construction of 230/15kV

Substation



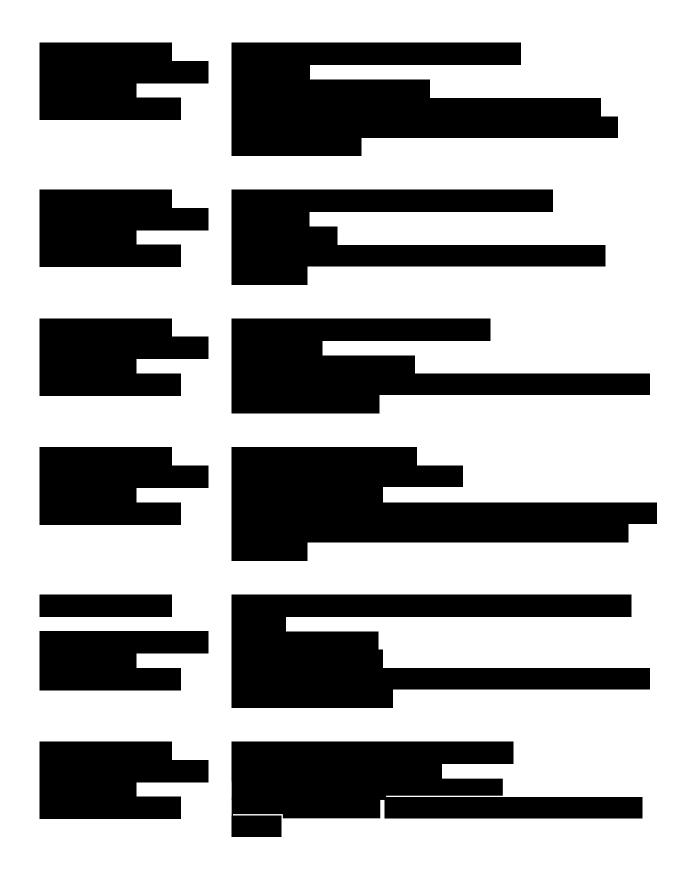








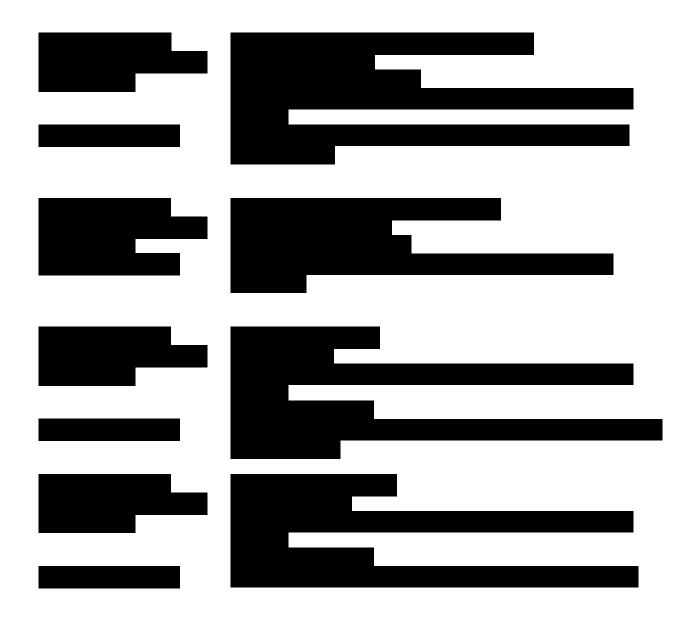














# **Insurance Certificates**

Beta Proposal BP3692
Section 11







### **CERTIFICATE OF LIABILITY INSURANCE**

DATE(MM/DD/YYYY) 02/18/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s)

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## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 2/18/2019

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INSURER A :	th	is certificate does not confer any rig	hts to	the	certificate holder in lieu o			nt(s).			
INSURED Beta Engineering, LLC 4725 Hwy 28 East Pineville, LA 71360    Mourer A :	PRO	DUCER									
INSURED Beta Engineering, LLC 4725 Hwy 28 East Pineville, LA 71360    Mourer A :						PHONE (A/C, No	o, Ext):		FAX (A/C, No):		
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# **DESCRIPTIONS (Continued from Page 1)**

DESCRIPTIONS (Continued from Page 1)
conditions. Insurance is primary and non-contributory where required by written contract. Waiver of Subrogation applies to Excess Liability in favor of the Certificate Holder where required by written contract.
Project: BP3692 Solar Project



# **Agile Brochure**

Beta Proposal BP3692 Section 12





















# **USU**

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It's a challenge to find the right company to build your high voltage project. Of course cost is a concern, but these projects take time and expertise - the high voltage partner you choose must be more than just competitively priced.

We have proven our ability to complete economical, fast-track high voltage projects and have an exceptional track record for safety, timeliness, and overall quality. We find the best solutions by collaborating with our clients. It's not about just winning one job - it is about earning your trust and building a long-term relationship.

Our reputation has been built on pleasing the customer every time. Contact us to learn how we can work with you:

### **Eric Veuleman**

Agile Solutions eric.veuleman@betaengineering.com 318.767.5601

