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SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

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Title - Sujet North Warning System Hybrid Power S North Warning System Hybrid Power System	
Solicitation No. - N° de l'invitation 23332-220150/A	**Amendment No. - N° modif.** 004
Client Reference No. - N° de référence du client 23332-22-0150	**Date** 2022-02-07
GETS Reference No. - N° de référence de SEAG PW-$QCL-056-18266	
File No. - N° de dossier MTA-1-44079 (056)	**CCC No./N° CCC - FMS No./N° VME**

Solicitation Closes - L'invitation prend fin
at - à 02:00 PM Eastern Standard Time EST
on - le 2022-03-04 Heure Normale du l'Est HNE

F.O.B. - F.A.B.
Plant-Usine: ☐ **Destination:** ☑ **Other-Autre:** ☐

Address Enquiries to: - Adresser toutes questions à: Mohammed-Azizi, Samia	**Buyer Id - Id de l'acheteur** qcl056
Telephone No. - N° de téléphone (418) 576-9803 ( )	**FAX No. - N° de FAX** ( ) -

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Signature **Date**

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AMENDMENT 004

The purpose of this amendment is to correct amendment 003, clarify the evaluation criteria of the work plan and answer industry questions.

AMENDMENTS:

1) In Amendment 003, Answer 4:

DELETE:

a. One central inverter is used for the new PV system (see attached schematic)

INSERT:

a. One central inverter is used for the new PV system

2) At Part 4 – Evaluation Procedures and Basis of selection, section 4.1.2.3 Work plan:

DELETE:

Table 4 – Work plan and Table 5 – Evaluation Grid for the Work Plan

INSERT:

Table 4 – Work plan

ID	POINT RATED EVALUATION CRITERIA	MAXIMUM SCORE	Bidder's Substantion Indicate Page # in proposal
C8	**PROJECT MANAGEMENT:** The bidder must include a work plan describing the following to deliver the hybrid microgrid system described in the Statement of Work in Annex A. The work plan must clearly demonstrate how the proposed solution will meet the project objectives and all the requirements of the request for proposal. **GOAL OF THE PROJECT (10 Points)** The bidder understands the objective of the project, required system size and operational requirements. **SYSTEM CONCEPT, DESIGN AND DEVELOPMENT (40 Points)** The bidder describes the system being proposed. The bidder provides a schematic layout of the proposed system. The bidder provides a single line electrical diagram of proposed system. The bidder describes the battery energy storage module and how it is able to meet the operational loads with the distributed energy resources.	110	

	The bidder clearly describes how the proposed system will be able to interface with the existing equipment and control platforms at the eventual deployment site. **KEY SYSTEM COMPONENTS (20 Points)** The bidder lists and provides specification sheets of the following components to be used in the hybrid microgrid system design: - Generator - Batteries - Inverter - Microgrid Control Platform **PRINCIPLE OF OPERATION (20 Points)** The bidder provides a description of how the system will operate to meet the electrical loads of the site during the desired microgrid control options. This includes a description of when the system will operate under the following modes: - Generator off mode - Generator standby mode - Generator mode - Hybrid mode **DEVELOPMENT AND BUILD SCHEDULE (10 Points)** The bidder provides a description of the scope and timeline for the following phases of the project: - Design - Procurement of components - Assembly of hybrid power system - Development and testing of hybrid power system - CSA/UL Certification **RISK AND RISK MITIGATION (10 Points)** The bidder has identified at least one risk for each phase of the project and how to mitigate the risk. - Design - Procurement of components - Assembly of hybrid power system - Development and testing of hybrid power system - CSA/UL Certification		
	WORK PLAN TOTAL (C8)	110	
	MINIMUM SCORE REQUIRED	55	

TOTAL (C1 to C8)	270	
MINIMUM TOTAL SCORE REQUIRED	135	

Table 5 – Evaluation Grid for the Work Plan

EVALUATION GRID	
Excellent (100%)	All elements are addressed in detail and the information provided shows that the bidder fully and thoroughly understands all elements of the project.
Very good (80%)	The information provided clearly shows the bidder fully understands all elements of the project.
Good (60%)	The information provided clearly shows the bidder fully understands certain but not all elements of the project.
Unsatisfactory (40%)	The information provided shows a limited understanding of the project, without showing that the bidder fully understands all elements of the project. The bidder shows basic communication skills. The project results presented are poor and non-significant.
Poor (20%)	The information provided shows that the bidder has a basic understanding of the project.
Unacceptable (0%)	The information provided shows that the bidder as not a sufficient understanding of the project.

ANSWERS TO INDUSTRY QUESTIONS

Enquiries - Bid Solicitation
To ensure consistency and quality of information provided to bidders, significant enquiries received and the replies to such enquiries will be provided simultaneously to bidders to which the bid solicitation has been sent, without revealing the sources of the enquiries.

Here are the questions which we have received until now:

Question 1

As per Annex A – Statement of Work, section 4.3, Table 2, p. 44:
the following are the requirements and our offering. Please confirm if we can submit our proposal based on this technology:

No.	Description	Requirements	Our proposal
1	Battery Chemistry	Battery Chemistry: LiFePO4, secondary rechargeable	Super Capacitor Technology
2	Battery Operating Temperature Minimum.	Minimum: 0°C	-40 deg. C Discharge -30 Deg. C Charge
3	Battery Operating Temperature Maximum.	Maximum: +40°C	+ 45 Deg. C Charge +65 Deg. C Discharge

Answer 1

A goal of this project is to demonstrate the operation and mitigate the risk of battery energy storage technology as part of the hybrid microgrid system. The achievement of this objective is mandatory (written as such in the Annex A, Statement of work). A proposal with only a supercapacitor component does not meet this objective therefore does not meet the requirement.

Question 2	The specification in numerous locations mentions “ruggedized” package. Please kindly elaborate what is meant by this.
Answer 2	Ruggedized refers to the hybrid microgrid system component assemblies being strengthened for better resistance to wear and stress during transport. We do not require the component assemblies to meet MIL-STD-810 516.8; however it is expected that the system be designed to withstand the shock and vibration that can be encountered during air and ground transport.
Question 3	Could you give more details the communication protocol for the solar PV micro grid inverters? The information includes in Amendment 002 is not sufficient.
Answer 3	It was intended that the inverter or micro-inverters for the PV system would be selected based on the recommendation of the contractor. As such we have not selected the inverter or micro-inverters for the PV system. The micro-inverters we are considering are the EnPhase IQ8+ micro-inverters (https://enphase.com/installers/microinverters/iq8/iq8-plus). Standard TCP/IP communication protocols appear to be used, but should be confirmed. Just to note that a different inverter or micro-inverters for the PV system can be specified by the bidder to be compatible with the microgrid controller. The EnPhase IQ8+ micro-inverters is currently our consideration in the project.

****ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME****