



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Travaux publics et Services gouvernementaux
Canada

Place Bonaventure, portail Sud-Ouest

800, rue de La Gauchetière Ouest

7^e étage, suite 7300

Montréal

Québec

H5A 1L6

FAX pour soumissions: (514) 496-3822

**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

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Travaux publics et Services gouvernementaux Canada

Place Bonaventure, portail Sud-Ouest

800, rue de La Gauchetière Ouest

7^e étage, suite 7300

Montréal

Québec

H5A 1L6

Title - Sujet système d'alimentation UPS	
Solicitation No. - N° de l'invitation 31241-205593/B	Amendment No. - N° modif. 005
Client Reference No. - N° de référence du client 31241-205593	Date 2020-01-30
GETS Reference No. - N° de référence de SEAG PW-SMTA-225-15592	
File No. - N° de dossier MTA-9-42221 (225)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-02-10	Time Zone Fuseau horaire Heure Normale du l'Est HNE
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Dubé, Stéphane	Buyer Id - Id de l'acheteur mta225
Telephone No. - N° de téléphone (514) 603-9967 ()	FAX No. - N° de FAX (514) 496-3822
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Amendment 005

This amendment is to answer questions asked.

Question and answer:

Q22: The original Toshiba UPS that you have is a 25kVA/20kW. As per Toshiba's data, this translates to 27.5kVA at the input.
So, $27500/208/1.73 = 76.4 \text{ A} \times 1.25 \text{ factor for feeder breakers} = 95.5 \text{ A}$. Approximately 5 to 10 % more to allow battery recharge and full load : ~100 A.
Therefore, this requires a 100A breaker feeder is needed.

Since you have requested a 30kVA/27kW UPS, by the same rule:
So, $33000/208/1.73 = 91.7 \text{ A} \times 1.25 \text{ factor for feeder breakers} = 114.6 \text{ A}$. Approximately 10% more to allow battery recharge and full load : ~126.1 A.
Therefore, this requires a 150A breaker feeder is needed.

Do we move forward with the 30kVA requirement and change the feeder and cable, or will you choose to reduce the size of the UPS required?

A22: For the 30KVA UPS, the NRC will take care of the feeder.

Q23: For load bank testing, I assume it is a discharge test that is expected? If yes, it is important for the batteries to be charged for a minimum of 24 hours before testing.
Furthermore, you must choose either the test at 27kW for 9 minutes **OR** 10kW for 30 minutes.
Once a full discharge has been performed at full load, a second discharge may only be performed after the battery has been recharged for a minimum of 10 x it's full load discharge rate. i.e. 90 minutes after the first discharge.

If this is what is expected, then the project will run over two days at a minimum.

A23: During the site visit it was mentioned that this project must be performed in one day. We can accept only the test at full load at 27kw for 9 minutes.

Q24: We understand that the National Research Council requires that the installation of this UPS needs to meet CSA standards. Is this correct?

A24: The New UPS has to be approve for Canada, it can be CSA or another certification for Canada.

N° de l'invitation - Solicitation No.
31241-205593/B
N° de réf. du client - Client Ref. No.
31241-205593

N° de la modif - Amd. No.
005
File No. - N° du dossier
MTA-9-42221

Id de l'acheteur - Buyer ID
MTA225
N° CCC / CCC No. / N° VME - FMS

Q25: In order to meet CSA standards, when we are installing the UPS that we are planning to propose, the addition of backfeed protection (IE: a contactor) is required. As a result will you please confirm that this backfeed protection is required for the installation to meet these CSA standards? We don't need an additional equipment as long as the new UPS is certified for Canada.

A25: We don't need an additional equipment as long as the new UPS is certified for Canada.

Q 26: regarding the breaker capacity, is it possible to get the model number of the Federal Pioneer breaker panel.

My electrician has a doubt that anything larger than a 100A breaker may not be available in this brand.

With today's UPS technologies and the requirement for battery recharge our estimation is that the largest UPS you would be able to use with a 100A feed is 20kVA/20kW.

A26: The model number of the Federal Pioneer breaker panel is NBDP424-4LCI.
See the 2 pictures in attachment.

