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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.

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Québec
H5A 1L6

Title - Sujet Hydraulic Test Bench System	
Solicitation No. - N° de l'invitation W1985-212030/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client W1985-212030	Date 2020-11-23
GETS Reference No. - N° de référence de SEAG PW-SMTA-170-15883	
File No. - N° de dossier MTA-0-43044 (170)	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 2020-12-21 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"/>	
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Telephone No. - N° de téléphone (514) 604-3855 ()	FAX No. - N° de FAX () -
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AMENDMENT 004

This amendment aims to publish questions and answers and to amend the article 2.1.9.2 from the Annex A, and also to bring a correction to the amendment 001.

Correction to Amendment 001: the article **1.4.2.5** refers to annexes **A and D**.

Q39 : Will you provide component-specific test procedures to support quoting computer TPS development?

A39 : Not for quotation, but once the contract has been awarded, we will provide as much information as possible.

Q40 : Referring to 2.1.9.1.1.2 - P1-P4 are they all pressure supply ports or some ports serve as measurement circuits (with flowmeters and flow restrictions)?

A40 : For the Components section of the bench, P1-P4 are all pressure supply ports.

Q41 : Referring to 2.11.2.1 - NEMA ICS 18 & UL845 are mentioned in the technical specification. These standards are applicable for MCC (Motor control centers). In our standard design we use an electrical switching cabinet, but not an MCC. Can we alternatively build an electrical switching cabinet in accordance with Model Code SPE1000, CSA C22.2 No. 301, CSA C22.2 No. 286 & the Canadian Electrical Code?

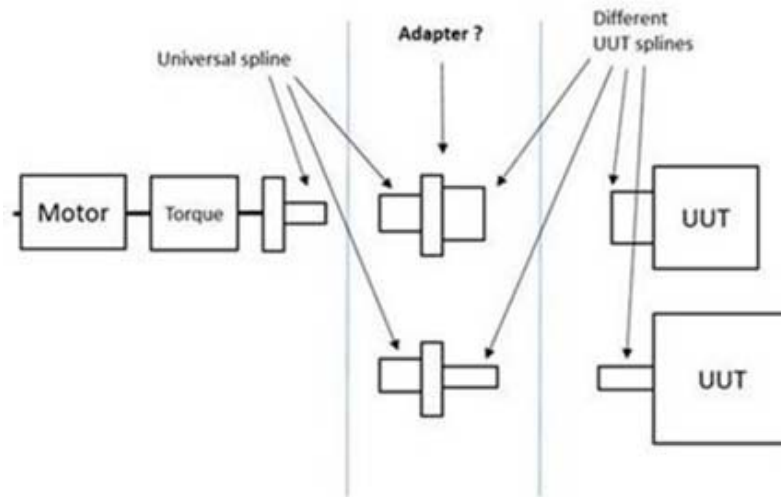
A41 : Yes

Q42 : Referring to 2.11.2.1 - IEEE C37.20.7-2007 deals with Medium voltage enclosures. Is this standard applicable since we use 600V max. ?

A42 : This standard is used for testing switchgear rated from 0 to 52 kV. The last version of the Standard is now IEEE C37.20.7-2017. Please refer to the literature document at the following link:
<https://ieeexplore.ieee.org/document/6215701>

Q43 : Referring to 2.1.7 of Annex A and Answer 17 of Amendment 003, our test stand design will incorporate the universal test jig in accordance with 2.1.7. However, different pumps and motors have different splines - the test stand will come with a universal prime mover spline, but there must be a connection adapter between the universal test stand spline and the spline for each individual UUT spline? Furthermore, different valves, actuators, etc. will have different hydraulic connectors - matching adapter needs to be used to connect hydraulic hoses with the UUT hydraulic connection. Can you provide the

different spline types and hydraulic connections types? The sketch below (or attached) can better explain the question.



A43 : For pumps and motors, we want to be able to test all SAE J744 and DIN ISO 3019 mounting flanges and shafts. For hydraulic connections, please refer to section 2.1.9.2. We must have a North American standard. We will standardize according to the proposed selection.

The article 2.1.9.2 from the annex A is amended as follows:

Delete:

2.1.9.2 The outlets must be flush face, drybreak, quick connect/disconnect, and non-spill.

Insert:

2.1.9.2 The outlets must be flush face, drybreak, quick connect/disconnect, non-spill **and from North America standards.**

All other terms and conditions remain unchanged.