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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

Vendor/Firm Name and Address  
Raison sociale et adresse du  
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution  
Vehicles & Industrial Products Division  
11 Laurier St./11, rue Laurier  
7A2, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> FORKLIFT TRAILERS	
<b>Solicitation No. - N° de l'invitation</b> W8476-155217/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> W8476-155217	<b>Date</b> 2015-02-27
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HP-923-66876	
<b>File No. - N° de dossier</b> hp923.W8476-155217	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2015-04-08</b>	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Martin, Erik	<b>Buyer Id - Id de l'acheteur</b> hp923
<b>Telephone No. - N° de téléphone</b> (819) 956-3842 ( )	<b>FAX No. - N° de FAX</b> (819) 953-2953
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

Instructions: See Herein

Instructions: Voir aux présentes

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

Solicitation No. - N° de l'invitation

W8476-155217/A

Client Ref. No. - N° de réf. du client

W8476-155217

Amd. No. - N° de la modif.

002

File No. - N° du dossier

hp923W8476-155217

Buyer ID - Id de l'acheteur

hp923

CCC No./N° CCC - FMS No/ N° VME

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THIS AMENDMENT 002 IS ISSUED TO MODIFY THE REFERENCED SOLICITATION AS FOLLOWS:

ADD ANNEX B AND APPENDIX 1 DOCUMENTS TO THE ORIGINAL SOLICITATION.

REFER TO THE FOLLOWING DOCUMENTS FOR DETAILS.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.

**NOTICE**



This documentation has been reviewed by the technical authority and does not contain controlled goods.

**AVIS**

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

**ANNEX B**

**The Canadian Forces Material Handling Equipment**  
**PURCHASE DESCRIPTION (PD)**  
**FOR**  
**FORKLIFT TRAILERS**

23 February 2015

OPI: DSVPM 4/DAPVS 4  
National Defence Headquarters  
Major General George R. Pearkes Building  
Ottawa, Ontario  
K1A 0K2

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Issued on Authority of the Chief of the Defence Staff

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## 1. SCOPE

- 1.1 **Scope** - This purchase description covers the requirements for Forklift Trailers.
- 1.2 **Instructions** - The following instructions apply to this Purchase Description:
- 1.2.1 Requirements, which are identified by the word "**shall**", are mandatory. Deviations will not be permitted;
  - 1.2.2 Requirements identified by "**shall**<sup>(B)</sup>" are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as an Equivalent;
  - 1.2.3 Requirements identified with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
  - 1.2.4 Where "**shall**", "**shall**<sup>(B)</sup>", or "will" are not used, the information provided is for guidance only;
  - 1.2.5 In this document "provided" **shall** mean "provided and installed";
  - 1.2.6 Where standard is specified and the Contractor has offered an equivalent, that equivalent standard **shall** be supplied by the Contractor, upon request;
  - 1.2.7 Where technical certification is referred to in this purchase description, a copy of the certification or an acceptable proof of compliance **shall** be provided for the equipment when requested by the Technical Authority up until the date of the expiration of the warranty period;
  - 1.2.8 While SI system **shall** be used as the primary system of measurement to define requirements in this Purchase Description, both the SI system and the Standard system of measurements are usually used. Conversions from one system of measurement to the other may not be exact; and
  - 1.2.9 Dimensions stated as nominal **shall** be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.
- 1.3 **Definitions** - The following definitions apply to the interpretation of this Purchase Description:
- 1.3.1 "Technical Authority" - The government official responsible for technical content of this requirement; and

1.3.2 "Equivalent" - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance.

1.4 **Requirements Summary Table** - Forklift trailers covered by this Purchase Description are represented as Configurations. The following table shows required performance and dimensions by Configuration:

CHARACTERISTIC	CLAUSE	UNITS	CONFIGURATION	
			A	B
LOAD CAPACITY	3.4.1	kg	5,443	
		lbs	12,000	
DECK LENGTH	3.4.3(a)	mm	4,876	
		inch	192	
OVERALL WIDTH	3.4.3(b)	mm	2,590	
		inch	102	
WINCH CAPACITY	3.5.1(g)	kg	4,536	
		lbs	10,000	
INITIAL PARTS KITS	4.1.1(e)		✓	

**2. APPLICABLE DOCUMENTS**

**2.1 Government Furnished Documents - NOT APPLICABLE**

**2.2 Other Publications** - The following documents form part of this Purchase Description. Web sites for the organization are given when available. Effective documents are those in effect on date of manufacture. Sources are as shown:

**2.2.1 SAE Standards**

SAE Handbook  
 Society of Automotive Engineers Inc.  
 400 Commonwealth Dr.,  
 Warrendale, PA, 15096  
<http://www.sae.org>

**2.2.2 CMVSS Standards**

Canadian Motor Vehicle Safety Standards (CMVSS)  
 Transport Canada,  
 Road Vehicle and Motor Vehicle Regulation,  
 330 Sparks Street, Tower C,

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Ottawa, Ontario K1A 0N5  
<http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/menu.htm>

### 2.2.3 Yearbook

Tire and Rim Association Inc.,  
3200 West Market St.,  
Akron, Ohio, 44321  
<http://www.us-tra.org/traHome.htm>

## 3. REQUIREMENTS

### 3.1 Standard Design

- 3.1.1 The forklift trailer **shall** be the latest model from a manufacturer who has demonstrated acceptability by manufacturing and selling this type and size class of vehicle for at least one (1) year;
- 3.1.2 The forklift trailer **shall** have engineering certification available, upon demand, for this application from the original equipment manufacturers (OEM) of major equipment systems and assemblies;
- 3.1.3 The forklift trailer **shall** conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and emissions in effect in Canada at the time of manufacture;
- 3.1.4 The forklift trailer **shall** have systems and components not operating at greater than their ratings published by the systems or components manufacturers; and
- 3.1.5 The forklift trailer **shall** include all components, equipment and accessories normally supplied for the model offered, although they may not be specifically described in this Purchase Description.

### 3.2 Operating Conditions

- 3.2.1 Weather - The forklift trailer **shall** operate under the extremes of weather conditions found in Canada in temperatures ranging from -40 to 41° C (-40 to 105° F).
- 3.2.2 Terrain - The forklift trailer **shall** be capable of being operated on highways, secondary roads, and gravel roads.

### 3.3 Safety Regulations

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3.3.1 The forklift trailer **shall** be built meeting the provisions of the Canada Motor Vehicle Safety Act (CMVSA) in effect on the date of the Contract; and

3.3.2 The forklift trailers **shall** carry the National Safety Mark.

#### 3.4 Performance

##### 3.4.1 Rated Capacity -

(a) The forklift trailer **shall** operate satisfactorily when carrying loads weighing indicated as "LOAD CAPACITY" in the Requirement Summary Table; and

(b) The drawbar load **shall** be limited to 15% of the trailer weight plus its rated capacity.

##### 3.4.2 Towing Ability -

(a) The forklift trailer **shall** be capable of being towed with a full load on highways and secondary roads at a speed of at least 100 km/h (66 mph);

(b) The forklift trailer **shall** follow the towing vehicle without weaving or side sway; and

(c) The forklift trailer **shall** be capable of horizontal articulation up to 60 degrees without interference with the towing vehicle.

##### 3.4.3 Dimensions

(a) The forklift trailer **shall** have a deck length of at least that given as "DECK LENGTH" in the Requirement Summary Table;

(b) The forklift trailer **shall** have an overall trailer width of at least that given as "OVERALL WIDTH" in the Requirement Summary Table;

(c) The forklift trailer **shall** have a minimum deck width of 2000 mm (79 inches) available for securing forklifts on the deck for transportation;

(d) The forklift trailer **shall** have a standard deck height of a forklift trailer for this type and size; and

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- (e) The forklift trailer **shall** have a ground clearance of not less than 20.3 cm (8 inches).

### 3.5 Equipment

#### 3.5.1 Application Equipment

- (a) Tow Bar - The forklift trailer **shall** be provided with standard tow bar for this type and size of forklift trailer;
- (b) Lunette for Tow Ring - The forklift trailer **shall** be provided with standard lunette (tow bar eye) for this type and size of forklift trailer and having a nominal inside diameter of 76 mm (3 inches) in accordance with SAE J847;
- (c) Trailer Deck
- (i) The forklift trailer **shall** be provided with a tilt deck having a treated hardwood deck surface with steel structural support;
  - (ii) The deck **shall** be equipped with an electrically actuated full length deck tilt mechanism;
  - (iii) The deck **shall** be equipped with a tilt deck locking mechanisms to secure the deck in the travel position. Automatic locking mechanisms are the preferred method.
  - (iv) The deck **shall** be provided with 102 mm (4 inch) raised edges;
  - (v) The deck **shall** be provided with a minimum of fourteen (14) deck mounted "D" rings, at least two (2) at the front and two (2) at the back and ten (10) evenly spaced along each side;
  - (vi) The forklift trailer **shall** be provided with standard frame mounted tie-downs for this type and size of trailer; and
  - (vii) The tie-downs **shall**<sup>(B)</sup> be mounted at convenient locations along the length of the trailer.
- (d) Ramp
- (i) The forklift trailer **shall** be provided with a non-split type end loading hinged ramp at the rear of the trailer;

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- (ii) The ramp **shall** have a load angle of no more than 12-degree;
  - (iii) The upper surface of the ramp **shall** permit loading of smooth tired forklifts; and
  - (iv) The end loading ramp **shall** be electrical over hydraulic control self-deploying having a positive travel lock mechanism to secure the ramp for transport.
- (e) **Landing Gear**
- (i) The forklift trailer **shall** be provided equipped with a landing gear for this type and size of forklift trailer with a positively locked travel position;
  - (ii) The landing gear **shall** be capable of lifting the fully loaded forklift trailer;
  - (iii) The landing gear **shall** be supplied with a spreader plate to allow deployment on soft ground for each pad; and
  - (iv) Each spreader plate **shall**<sup>(B)</sup> have a storage location on the trailer.
- (f) **Safety Chains**
- (i) The forklift trailer **shall** be provided with two safety chains with snap hooks; and
  - (ii) The safety chains **shall** be in accordance with SAE Recommended Practice J697.
- (g) **Recovery Winch**
- (i) The forklift trailer **shall** be provided with a 12V electric recovery winch;
  - (ii) The recovery winch **shall** have a bare drum pull capacity of at least that given as "WINCH CAPACITY" in the Requirement Summary Table;
  - (iii) The winch **shall** pull from the front of the trailer; and
  - (iv) The recovery winch **shall** be provided with at least 22-meters (75 feet) pre-strained cable.
- (h) **License Plate Holder** - The forklift trailer **shall** be provided with standard license plate holder for this type and size of forklift trailer;

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- (i) **Hub-meter** - The forklift trailer **shall** be provided with an axle hub-meter reading in kilometres to record vehicle usage;
- (j) **Tool Box**
- (i) The forklift trailer **shall** be provided with a tool box to house DC generator, tools and other items recommended by the manufacturer;
  - (ii) The tool box **shall**<sup>(E)</sup> have a hinged and sealed cover, fitted with flush-mounted 1/4 turn latch(es) and a hasp capable of receiving a padlock;
  - (iii) Hinges and hasps **shall** be stainless steel to minimize corrosion; and
  - (iv) The tool box **shall**<sup>(E)</sup> be self-draining with a means of preventing water from entering through the drain opening.
- (k) **Tie-down Chains and Ratchet Straps**
- (i) The forklift trailer **shall** be provided with 4 sets of 9.14 metre (30 ft) long and 76 mm (3 inch) wide strap assemblies complete with winches, chain and slip hooks; and
  - (ii) The strap assemblies **shall**<sup>(E)</sup> be mounted at 4 locations on the left hand side of the trailer such that operation of the trailer is not impaired and ground clearance is not diminished.
- (l) **DC Generator**
- (i) The forklift trailer **shall** be provided with a gasoline powered 12V DC generator having a continuous running time of at least 6 hours at the rated output of at least 60-ampere;
  - (ii) The generator **shall**<sup>(E)</sup> be mounted in a tool box having proper venting and access to the generator for maintenance;
  - (iii) The tool box **shall** be divided such that the tools do not impact the generator in transit; and
  - (iv) The generator **shall** be connected to the trailer battery for charging in order to allow continuous tilting and winching operations.
- 3.6 **Operator Station** - **NOT APPLICABLE**
- 3.7 **Chassis** - The forklift trailer chassis **shall** be the standard chassis for a forklift trailer of this type and size.

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3.8 **Engine** - **NOT APPLICABLE**

3.9 **Axles**

3.9.1 The forklift trailer **shall** be provided with axles having a capacity of no less than maximum payload plus the trailer self-weight;

3.9.2 The suspension **shall** be the standard suspension for a forklift trailer of this type and size; and

3.9.3 Manufacturer **shall** maintain a file containing the forklift trailer axle compliance documents, required for the National Safety Mark.

3.10 **Brake System** - The forklift trailer **shall** be equipped with standard electric braking system for a forklift trailer of this type and size.

3.11 **Steering** - **NOT APPLICABLE**

3.12 **Wheels, Rims and Tires**

3.12.1 The forklift trailer **shall** be provided with standard wheels, tires and rims of a trailer of this type and size;

3.12.2 Tire size and ply ratings **shall** be provided with in accordance with the Tire and Rim Association Standards;

3.12.3 The wheel assembly **shall** have sufficient load capacity so the trailer loaded to rated capacity and equipped with all options does not exceed the manufacture's load ratings;

3.12.4 Tire pressure **shall** be marked near the tire location;

3.12.5 The tires **shall** be tubeless radial tires with all-weather treads;

3.12.6 The rims **shall** be single piece steel rims;

3.12.7 The forklift trailer **shall** be provided with a spare wheel assembly mounted on the Technical Authority approved location, and ready for service, of same size and ply rating as tires furnished with vehicle; and

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3.12.8 The forklift trailer **shall** be provided with a lug wrench to remove wheel nuts.

3.13 **Controls** - **NOT APPLICABLE**

3.14 **Instruments** - **NOT APPLICABLE**

3.15 **Electrical System**

3.15.1 The forklift trailer electrical system **shall** be the standard electrical system for a forklift trailer of this type and size equipped with a negative ground electrical system in accordance with CMVSS;

3.15.2 The forklift trailer electrical system **shall** include a 12V battery for the recovery winch;

3.15.3 The battery **shall** be charged by the generator;

3.15.4 The electrical system **shall** be provided with a 7-way commercial connector; and

3.15.5 The forklift trailer **shall** be equipped with a 4-pin adaptor.

3.16 **Lighting**

3.16.1 The forklift trailer **shall** be provided with lights and reflectors in accordance with CMVSS;

3.16.2 Lights **shall** be recessed or otherwise protected from damages with all components easily accessible for servicing; and

3.16.3 Lighting **shall** be LED.

3.17 **Hydraulic System** - **NOT APPLICABLE**

3.18 **Lubricants and Hydraulic Fluids** - The forklift trailer **shall** be serviced with the standard lubricants and hydraulic fluids for a forklift trailer of this type and size.

3.19 **Paint** - The forklift trailer **shall** be painted using commercial colours having a high-durability, corrosion-resistant type coating.

3.20 **Identification** - The forklift trailer **shall** be provided with the manufacturer's name, model and serial number permanently marked in a conspicuous and protected location.

**4. INTEGRATED LOGISTICS SUPPORT**

**4.1 Documentation and Support Items**

**4.1.1 Items Provided with Each Forklift trailer**

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a) **Operator's Manual**

- (i) A hard copy of the operator's manual, covering the safe operation of all forklift trailer features and including information on all supplied attachments, **shall** be provided;
- (ii) The operator's manual **shall** be provided in a bilingual format;
- (iii) In addition to the hard copy, an electronic copy of the operator's manual **shall** be provided; and
- (iv) The electronic copy **shall** not require a password or an internet connection to be functional.

b) **Maintenance (Shop Repair) Manual**

- i) A searchable electronic maintenance manual in bilingual format, required for maintenance and repair of the forklift trailer, **shall** be provided;
- ii) The electronic format **shall** not require a password or an internet connection to be functional; and
- iii) The electronic maintenance manual **shall** include a parts manual.

c) **Warranty Letter**

- i) A paper copy of the completed bilingual Warranty Letter **shall** be provided. The Technical Authority will make a sample copy of the Warranty Letter available to establish an acceptable format; and
- ii) Designated warranty providers **shall** honor the warranty letter.

e) **Initial Parts Kit**

- i) One initial parts kit **shall** be provided; and
- ii) The initial parts kit **shall** include a complete set of filters and filter elements from the Original Equipment Manufacturer.

**4.1.2 Items Provided to Technical Authority**

a) **Data Summary**

- i) A bilingual Data Summary **shall** be provided for each configuration of forklift trailer with the data and a photo provided on the Technical Authority provided form;

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and

ii) The Data Summary **shall** be provided prior to the forklift trailer(s) being shipped to their delivery destination.

b) **Photographs**

i) Two (2) digital pictures, one left-front three-quarter view, and one right-rear three-quarter view of each configuration **shall** be provided prior to the forklift trailer(s) being shipped to their delivery destination;

ii) It is preferred that pictures have an uncluttered background; and

iii) Pictures **shall** have a resolution of at least ten (10) megapixels.

c) **Manuals for Approval**

i) A set of manuals for approval for each configuration, in searchable digital format, including the operator, parts and maintenance manuals **shall** be provided no later than forty-five (45) days prior to the forklift trailer(s) being shipped to their delivery destination;

ii) Manuals for approval will not be returned;

iii) Manual approval or comments will be provided back to the Contractor within fifteen (15) working days after receipt by the Technical Authority;

iv) The Contractor **shall** revise the manuals to address the comments provided by the Technical Authority; and

v) The Contractor **shall** obtain Technical Authority written approval of Operator's Manual prior to the forklift trailer(s) being shipped to their delivery destination.

d) **Warranty Letter** - The Contractor **shall** provide a copy of the Warranty Letter, in electronic format, to the Technical Authority for each forklift, prior to the forklift trailer(s) being shipped to their delivery destination; and

e) **Initial Parts Kit List** - A list of the parts included in the initial parts kit specified in paragraph 4.1.1 (e) for each configuration **shall** be provided prior to the forklift trailer(s) being shipped to their delivery destination.



## APPENDIX 1

### TECHNICAL QUESTIONNAIRE FOR FORKLIFT TRAILERS

#### Configuration A

This questionnaire covers technical information, which **shall** be provided for evaluation of the configuration(s) of the vehicle(s) offered.

Where the specification paragraphs below indicate "Proof of Compliance", the "Proof of Compliance" **shall** be provided for each performance requirement/specification.

Bidders should indicate the requested information and indicate the document name/title and page number where the Proof of Compliance can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the DEFINITIONS section at the end of this document.

#### CONTRACTOR INFORMATION

Contractor Name: \_\_\_\_\_

Proposal Date: \_\_\_\_\_

#### Substitutes/Alternatives

Are any equipment substitutes/alternatives offered as **Equivalent**? YES  NO

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents** below:

Proposed Make: \_\_\_\_\_ Model: \_\_\_\_\_

**PURCHASE DESCRIPTION PARAGRAPHS**

**3.4.1 Trailer Performance - Proof of compliance**

Load Carrying Capacity:

Load capacity can be found in document(s): \_\_\_\_\_ page:

**3.4.3 Dimensions - Proof of compliance**

- (a) Trailer Deck Length \_\_\_\_\_
- (b) Trailer Width \_\_\_\_\_
- (c) Deck Width \_\_\_\_\_
- (d) Deck Height \_\_\_\_\_
- (e) Ground Clearance \_\_\_\_\_

Information on dimensions can be found in document(s): \_\_\_\_\_ page:

**3.5.1 Application Equipment - Proof of compliance**

- (b) Lunette Type \_\_\_\_\_  
Make/Model:
- (d) Ramp Load Angle \_\_\_\_\_
- (g) Recovery Winch Capacity \_\_\_\_\_  
Make/Model:
- (l) DC Generator \_\_\_\_\_  
Make/Model:

Information on items listed above can be found in document(s):  
page:

## DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "Equivalent" - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance.
- (b) "Proof of Compliance" is defined as an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document **shall** provide detailed information on each performance requirement and/or specification. Where a document submitted as Proof of Compliance does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications **shall** be provided. The certificate **shall** detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.