

Statement of Work for a Vertical Lift Platform

20 June 2012

Scope

Environment Canada has a requirement for the design and installation of a vertical lift platform to enable the parking and storage of vehicles, engines and equipment on top of a mezzanine being built at their Vehicle and Engines Facility located on 335 River Road South, Ottawa, Ontario.

Instructions – The following instructions **shall** be applied to this Statement of Work

- (a) Requirements, which are identified by the word **shall**, are mandatory. Deviations will not be permitted;
- (b) Requirements identified by should are mandatory. However, the Technical Authority (TA) will consider alternative standards/means/component types for acceptance as a Technical Authority Approved Equivalent. The TA will only accept alternatives, which fully satisfy the requirement;
- (c) In this document “provided” shall mean, “provided and installed”;
- (d) Where a standard is specified and the Contractor has offered an equivalent, that equivalent standard shall be provided, upon request; and
- (e) Where certification is required, the Contractor shall provide the certification or acceptable proof of compliance, upon request. Where verification of certification is built into the equipment, by means of a plaque or other means, this requirement will be accepted as met.

Platform

The platform shall be an Electro-Hydraulic Vertical Lift Platform type. The lift shall be designed to transport freight between two (2) fixed levels without a rider as per Ont. Reg. 209/01 Freight Platform Lift – Type A.

A design submission shall be completed and registered with TSSA per Ont. Reg. 209/10.

The lift shall meet or exceed the following codes (after contract award):

- ASME A17.1-2010/ CSA B44-10 – Safety Code for Elevators and Escalators
- CSA C22.1 - Canadian Electrical Code
- Ont Reg. 209/10 – Elevating Devices

The platform shall be capable of performing the following specifications:

- Maximum travel distance when unit grade installed 3100 mm
- Maximum load capacity of at least 3100 kg
- Overall minimum size 2850mm x 5200mm +/- 10% tolerance

- Floor structure should/shall be galvanized. The balance of the platform shall be 2-part epoxy painted or power coated
- Shall be complete with all controls able to interlock with the hoist way doors and the load positioning beams

The platform shall include the following items incorporated into the lift design:

- Infrared positioning beams located where needed
- Hoist way shaft to be fenced in
- Vertical sliding door shall be provided at grade level and a horizontal two-section sliding door shall be available at the mezzanine level
- One (1) set loading ramp capable to support the load capacity should be in aluminum with diamond plated. The ramps shall be installed and affix at grade level and able to slide together for a wider loading surface and be easily be removable
- One (1) set of wheel stops for the front left when secured to the platform to prevent vehicle from oscillating back and forth
- Two (2) push button lift controller boxes with key lock and each equipped with an emergency stop button mounted at the grade and mezzanine heights
- Kick plate on three (3) sides
- Lockable enclosure for the hydraulic unit and lift controller;

Operating voltage of electro-hydraulic unit to be 208V 3Phase. Power feed shall be supplied by others.

Missing installation, commissioning and meetings on site!!

Note that the construction of a pit to accommodate the lift platform will be by others.

Shop drawings must be submitted to Environment Canada in pdf for approval before manufacturing takes place. Allow one week for shop drawing approval turn around.

Vertical Lift Platform Manuals – The VLP shall be provided with all manuals required for the safe operation and maintenance of the VLP and all sub-systems and components. The following manuals shall be provided:

- (a) Two (2) operator's manual shall be provided in a bilingual format or as two (2) manuals in a single binder (one English, one French). Operator manuals shall also be supplied in a CD/DVD-ROM format.
- (b) Two (2) maintenance manuals (Shop Repair) shall be provided in English (French desirable). The manuals shall include:
 - (i) A detailed program indicating what and when the preventive and regular maintenance routines are to be done
 - (ii) A trouble shooting guide, showing the tests and steps required to determine the exact cause of the problem and an explanation of what steps should be taken to correct the problem;

- (iii) Information on the order of disassembly and assembly of the systems and components of the VLP;
- (c) One (1) part manual shall be provided in English (French desirable). The manual shall include:
 - (i) Illustrations showing all components of the VLP including equipment and accessories from other manufacturers that is supplied with the requirement. The illustrations shall have numbers for the itemized of the parts
 - (ii) A listing for all itemized manufacturer's parts showing the manufacturer's part number of the illustration, the part name and a brief description of the item
- (d) A set of sample manuals, including all of the above manuals in electronic format shall be delivered to the Technical Authority 15 working days before the installation of the VLP. Sample manuals will not be returned. The Technical Authority will provide manual approval or comments within 30 days.
- (f) The Contractor shall provide the TA a list of parts and spares needed
- (g) For a six (6) and twelve (12) month required/preventive maintenance cycle.