



NYC Department of Buildings
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Patricia Lancaster, FAIA, Commissioner
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Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 285-04-M

Manufacturer: PAT America Inc., 1665 Orchard Drive, Chambersburg, PA 17201

Trade Name(s): PAT DS-160

Product: Load indicator / rated capacity limiter for use on power-operated cranes

Pertinent Code Section(s): RS 19-2, Section 19.1.1 of New York City Building Code.

Test Report(s): The devices were tested by the Washington Laboratories, Ltd., in compliance with the applicable standards: SAEJ159 – Rated capacity system: SAEJ375 – Radius of load and boom angle indicating system: SAEJ376 – Load indicating device in lifting crane, and examined by Mr. Donald Durant, P.E., PH.D. Director of Crane and Derricks – Division of New York City Department of Buildings, and recommend the approval, letter dated October 20, 2004.

Description: These are automatic crane safety devices manufactured by PAT America Inc. consisting of a central microprocessor unit, operating console, length and angle sensors, pressure transducers, anti-two-block switch and duty selection switches. Both perform the functions of monitoring the rated load capacity, the listed load, the boom angle, the radius and the boom length. A boom angle sensor is mounted at the base section of the boom with a reeling drum driving a potentiometer to measure the length of the boom. Several different load sensors are provided to monitor the load on the main line. The anti-two-block switch at the boom head monitors the location of the load block relative to the head of the boom. The console, mounted in the operator's cabin, displays the boom angle, the boom length and the working radius. It also displays the hook load and maximum load permitted for the working configuration. An alarm horn and a warning light are provided to warn the operator of overload conditions.

Terms and Conditions: The above crane load moment indicating devices appear to satisfy the partial requirements of load measuring device mandated by New York City, be accepted, when used in conjunction with an approved radius or boom angle measuring device with pre-settable load and angle or radius limits to activate the warning signals, the system is considered in compliance with 19.1.1(a).1 requirements of Reference Standard RS 19-2 of the Building Code.

A metal tag indicating make, model and MEA number shall be attached to the load monitor, certifying that the equipment shipped or delivered is equivalent to those tested and acceptable for use, as provided for in Section 27-131 of the New York City Building Code.

Final Acceptance September 12, 2007

Examined By Sures Deshpande