



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

AES Scales, LLC

12601 Eckel Road, Perrysburg, OH 43551-1205

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2005

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated January 2009):

***Laboratory and On-Site Calibration of Weighing Devices,
Mechanical and Dimensional Calibration
(As detailed in the supplement)***

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President/Operations Manager

Initial Accreditation Date:

November 19, 2003

Issue Date:

February 11, 2016

Expiration Date:

February 28, 2018

Accreditation No.:

59052

Certificate No.:

L16-59

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjilabs.com



Certificate of Accreditation: Supplement

AES Scales, LLC

12601 Eckel Road, Perrysburg, OH 43551-1205
 Jeff Kohl Phone: 419-874-3565

Accreditation is granted to the facility to perform the following calibrations:

Mass, Force, and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Balances ^{FO}	1 mg to 5 000 g	$(1.15 \times 10^{-1} + 9.50 \times 10^{-5}Wt)$ g	Class F Weights NIST HB 44
Bench Scales ^{FO} Counting Scales ^{FO}	0.5 lb to 500 lb	$(1.15 \times 10^{-1} + 2.80 \times 10^{-4}Wt)$ lb	
Floor Scales ^{FO}	1 lb to 20 000 lb	$(1.16 + 7.20 \times 10^{-5}Wt)$ lb	
Truck Scales ^{FO} Hopper Scales ^{FO} Crane Scales ^{FO} Large Capacity Scales ^{FO} Rail Scales ^{FO}	10 lb to 200 000 lb	$(23.1 + 2.80 \times 10^{-5}Wt)$ lb	

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Torque ^{FO}	2 N•m to 40 N•m	1.4 % of reading	Norbar Pro-Test Transducer
	8 N•m to 40 N•m	1.4 % of reading	
	30 N•m to 1 500 N•m	1.5 % of reading	
	300 N•m to 1 500 N•m	1.3 % of reading	

- The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represent the smallest measurement uncertainties attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
- The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity. Measurement uncertainties achieved at customer sites can be expected to be larger than the measurement uncertainties obtained in the laboratory for similar calibrations. This is due to the effects of transportation of the standards and equipment and environmental effects which are typically not controlled as closely as at the laboratories fixed location.
- The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this calibration at its fixed location and onsite at customer locations.



*Joint IAF-ILAC-ISO Communiqué
on the
Management Systems Requirements of ISO/IEC 17025:2005,
General requirements for the competence of testing and calibration
laboratories*

A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid test results and calibrations. The **management system requirements** in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 **Quality Management Systems — Requirements** and are aligned with its pertinent requirements.

A handwritten signature in black ink, appearing to read 'H. Gode'.

A handwritten signature in black ink, appearing to read 'P. Wang'.

A handwritten signature in black ink, appearing to read 'R. Steele'.

IAF Chair

ILAC Chair

ISO Secretary General