



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Coastal Flow Liquid Measurement, Inc.
22210 McCleskey Rd, New Caney, TX 77357

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

ISO/IEC 17025:2017

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 April 2017):

Calibration of Volume for Captive Displacement Provers, Flow Meters, Pressure and Digital Thermometers
(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:

Initial Accreditation Date:

Issue Date:

Expiration Date:

November 21, 2016

February 10, 2021

February 28, 2023

Accreditation No.:

Certificate No.:

92789

L21-23

Tracy Szerszen
President

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 PJA website: www.pjllabs.com



Certificate of Accreditation: Supplement

Coastal Flow Liquid Measurement, Inc.

22210 McCleskey Rd, New Caney, TX 77357
 Contact Name: Chris Espitia Phone: 713-477-1956

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

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Captive Displacement Prover ^{FO}	1 gal	0.007 % of Reading	Class 4 Weights Thermometers Pressure Gauges Gravimetric Waterdraw A&D / FP6000 Scale WI 7.2-1 Class 4 Weights Thermometers Pressure Gauges Gravimetric Waterdraw Sartorius IS300IGG-H1 Scale WI 7.2-1
	2 gal	0.007 % of Reading	
	5 gal	0.018 % of Reading	
	10 gal	0.011 % of Reading	
	15 gal	0.009 % of Reading	
	20 gal	0.008 % of Reading	
	25 gal	0.008 % of Reading	
	30 gal	0.008 % of Reading	
	35 gal	0.007 % of Reading	
	40 gal	0.007 % of Reading	
	60 gal	0.007 % of Reading	
	75 gal	0.007 % of Reading	
	90 gal	0.007 % of Reading	
	120 gal	0.007 % of Reading	
	140 gal	0.008 % of Reading	
168 gal	0.007 % of Reading		
210 gal	0.007 % of Reading		
Pycnometer ^F Weight and Volume	1 000 g to 4 000 g	0.002 % of Reading	Class 2 Weights 6K G scale Thermometers Pressure Gauges API MPMS Ch. 9.4 WI 7.2-1
	500 cm ³	0.004 % of Reading	
	1 000 cm ³	0.004 % of Reading	
Flow Meters ^F	Up to 1 500 gal/min	0.016 % of Reading	Digital Thermometers Pressure Gauges Small Volume Provers API 4.8 WI 7.2-1
	Up to 12 000 lbs/min	0.016 % of Reading	



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Pressure Gauges ^F	Up to 600 psi 601 to 1 200 psi 1 201 to 1 800 psi 1 801 to 2 400 psi 2 401 to 3 000 psi	0.19 psi 0.26 psi 0.35 psi 0.45 psi 0.55 psi	Deadweight Tester Digital Thermometer Hygrometer WI 7.2-1

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Digital Thermometers ^F	0 °C to 150 °C	0.03 °C	Dryblock Digital Thermometer Readout Secondary PRT WI 7.2-1
	151 °C to 660 °C	0.06 °C	

- The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically 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.
- The presence of a superscript F means that the laboratory performs calibration of the indicated parameter both at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its 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



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

5. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.

