



THE AMERICAN ASSOCIATION FOR  
LABORATORY ACCREDITATION

## ACCREDITED LABORATORY

A2LA has accredited

**TENNESSEE SCALE WORKS INC.**

**Fairview, TN**

for technical competence in the field of **Calibration**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 17<sup>th</sup> day of March 2009.

A handwritten signature in black ink, appearing to read "Peter Meyer", written over a horizontal line.

President  
For the Accreditation Council  
Certificate Number 1557.01  
Valid to: March 31, 2011



For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005  
& ANSI/NCSL Z540-1994

TENNESSEE SCALE WORKS INC.  
7103 Juniper Road  
Fairview, TN 37062  
Jim Ferguson Phone: 615 387 6100

CALIBRATION

Valid To: March 31, 2011

Certificate Number: 1557.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Mechanical

Parameter/Equipment	Range	Best Uncertainty <sup>2</sup> (±)	Comments
Scales <sup>3</sup>	Up to 10 lb	0.0008 lb	Per NIST Handbook 44; verifications with Class F, 4 weights
	(10 to 20) lb	0.003 lb	
	(20 to 50) lb	0.004 lb	
	(50 to 100) lb	0.008 lb	
	(100 to 1000) lb	0.02 lb	
	(1000 to 5000) lb	0.4 lb	
	(5000 to 25 000) lb	2 lb	
	Up to 10 g	0.0008 g	
	(10 to 20) g	0.001 g	
	(20 to 200) g	0.01 g	
	(200 to 1000) g	0.08 g	
	(1000 to 10 000) g	0.8 g	
	(10 000 to 50 000) g	4 g	

<sup>1</sup> This laboratory offers commercial field calibration service.

<sup>2</sup> “Best Uncertainty” is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards of nearly ideal measuring equipment. Best uncertainties represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The best uncertainty of a specific calibration performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer’s device and to influences from the circumstances of the specific calibration.

<sup>3</sup> Field calibration service is available for this calibration and this laboratory meets A2LA *R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the uncertainties achievable on a customer's site can normally be expected to be larger than the Best Measurement Capabilities (BMC) that the accredited laboratory has been assigned as Best Uncertainty on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the calibration uncertainty being larger than the BMC.