National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION LABORATORIES **NVLAP LAB CODE 200662-0**

NVLAP Code: 20/A01 ANSI/NCSL Z540-1-1994; Part 1 Compliant

MECHANICAL

NVLAP Code: 20/M06
Force – ASTM E-74

Free Weights

Range	***Best Uncertainty (±) in ppm*** [note 1]	***Remarks***
1 gf to 50 lbf	50	Tension & Compression

Dead Weight Method

Range	***Best Uncertainty (±) in ppm*** [note 1]	***Remarks***
1 gf to 1000 lbf	50	Tension & Compression

Transfer Standard Method

Range in lbf	***Best Uncertainty (±) in %*** [note 1]	***Remarks***
10 to 112 k	0.025 [note 2]	Tension & Compression
50 k to 1000 k	0.050	Compression
50 k to 800 k	0.050	Tension

Indicators - DC mV/V voltage ratio measurement (force and torque)

Range in mV/V	***Best Uncertainty (±) in %*** [note 1]	***Remarks***
0 to 10	0.0030	

2008-04-01 through 2009-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

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NVLAP Code: 20/M06
Torque

Range	***Best Uncertainty (±) in%*** [note 1]	***Remarks***
1 in-oz to 2000 in-lbf	0.03	Mechanical and Electronic torque Calibration equipment

1. Represents an expanded uncertainty using a coverage factor, k = 2, at an approximate level of confidence of 95 %.
2. Typical uncertainties may be up to 0.05 %.

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