

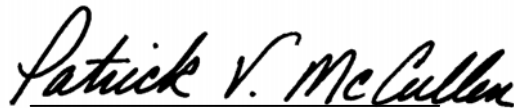
International Accreditation Service
CERTIFICATE OF ACCREDITATION

This is to signify that

DMTE CALIBRATION LLC
5916 FRANCES AVENUE NORTHEAST
TACOMA, WASHINGTON 98422

Calibration Laboratory CL-129
(Revised February 18, 2011)

has met the requirements of the IAS Accreditation Criteria for Calibration Laboratories (AC204), has demonstrated compliance with the ANS/ISO/IEC Standard 17025:2005, *General criteria for the competence of testing and calibration laboratories*, and has been accredited commencing August 12, 2010, for the calibration discipline(s) listed in the approved scope of accreditation. The laboratory meets IAS program requirements in the field of calibration.



Patrick V. McCullen
Vice President



C. P. Ramani, P.E.
President



(see attached scope of accreditation for fields of calibration and accredited calibration methods)

Print Date: 03/16/2011

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 699-0541.

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SCOPE OF ACCREDITATION

DMTE CALIBRATION LLC CL-129
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DMTE CALIBRATION LLC
 5916 Frances Ave. NE
 Tacoma, WA 98422

Glenn D. Miller
 Quality Manager
 (253) 678-7676

MEASUREMENT AREA	RANGE & RESOLUTION	CALIBRATION MEASUREMENT CAPABILITY ¹ (CMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Mechanical</i>			
Length Extensometer travel	0-1 in/0.00001 in >1 to 2 in/0.00002 in >2-10 in/0.00002 in	6 µin 8 µin 43.3 µin	Heidenhain MT 60K, ASTM E 83 SENC-150 precision glass scale, ASTM E 83
Gage length	0-6 in/0.0005 in	0.0003 in	Digital caliper, ASTM E 83
Crosshead distance	0-15.4 in/0.00002 in >15.4 to 45 in/0.00002 in	0.0075 in 0.012 in	SENC-150 precision glass scale, ASTM E 2309
Angle – Mechanical rotation	0°-180°	0.015°	Digital angle encoder, ASTM E 2309

August 12, 2010
 Commencement Date



C. P. Ramani
 C. P. Ramani, P.E.
 President



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MEASUREMENT AREA	RANGE & RESOLUTION	CALIBRATION MEASUREMENT CAPABILITY ¹ (CMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Mechanical (continued)</i> Force Compression	Up to 220,000lbf >220,000 to 300,000lbf >300,000 to 400,000lbf >400,000 to 500,000lbf >500,000 to 600,000lbf (0-55lbf)	0.1% of indicated value 0.01% of indicated value 0.007% of indicated value 0.005% of indicated value 0.004% of indicated value 0.01% of indicated value	Load cell/digital readout, ASTM E 4 Class F weights, ASTM E 4
Tension	Up to 220,000lbf >220,000 to 300,000lbf >300,000 to 400,000lbf >400,000 to 500,000lbf >500,000 to 600,000lbf (0-55lbf)	0.1% of indicated value 0.01% of indicated value 0.008% of indicated value 0.006% of indicated value 0.005% of indicated value 0.01% of indicated value	Load cell/digital readout, ASTM E 4 Class F weights, ASTM E 4

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MEASUREMENT AREA	RANGE & RESOLUTION	CALIBRATION MEASUREMENT CAPABILITY ¹ (CMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Mechanical (continued)</i> Crosshead speed	0.01 to 1000mm/min	0.00016%	SENC-150 precision glass scale, ASTM WK9983
Torque	0.02 to 1500 in-lbf	0.06% of indicated value	Torque arm, digital protractor, Class F weights, ASTM WK6364
Scales	0 to 25kg	See NOTE	Class 1 and Class F weights
<i>Thermal</i> Temperature	-50 to 260°C	0.6°C	VWR temperature meter, ASTM E 145

¹ "Calibration Measurement Capability" 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 or of nearly ideal measuring instruments. Calibration Measurement Capabilities are expressed as uncertainties at approximately the 95% level of confidence, usually using a coverage factor of $k=2$. The measurement uncertainty of a specific calibration performed by the laboratory may be greater than the least uncertainty due to the behavior of the customer's device, to the environment (if the calibration is performed in the field), and to influences from the circumstances of the specific calibration.

NOTE: Calibration parameters are performed primarily on-site at customer locations. The uncertainty of scale/balance calibration is highly dependent on local conditions, such as scale resolution and sensitivity, scale cleanliness, local gravity, temperature and humidity, dust, vibration, etc.; therefore, any statement of uncertainty is misleading. The class of the best weights used by the laboratory is shown in the Technique column. Use of weights in combination, whether in the same class or different classes, will increase measurement uncertainty resulting from the additive effect of weight tolerances, as defined in ASTM E 617.

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