

International Accreditation Service

# CERTIFICATE OF ACCREDITATION

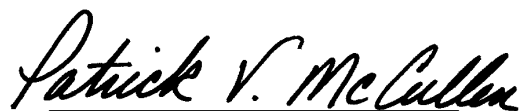
*This is to signify that*

**INTERTEK TESTING SERVICES NA LTD.**

1500 BRIGANTINE DRIVE  
COQUITLAM, BRITISH COLUMBIA V3K 7C1  
CANADA

Calibration Laboratory CL-102

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 July 16, 2009, 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 testing and accredited test methods)*

Print Date: 09/10/2009

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

# International Accreditation Service

# SCOPE OF ACCREDITATION

Intertek Testing Services NA Ltd. CL-102

Intertek Testing Services NA Ltd.  
1500 Brigantine Drive  
Coquitlam, British Columbia V3K 7C1  
Canada

Peter Gildenstern  
Manager -Calibration Services  
(604) 520-3321

MEASUREMENT AREA	RANGE & RESOLUTION	BEST MEASUREMENT CAPABILITY <sup>1</sup> (BMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Dimensional</i> Length			
Dial Indicators, Calipers	0 to 2 inches >2 to 6 inches	0.022 inch 0.070 inch	Gauge Blocks Gauge Blocks
Extensometers	0 to 2 inches	0.022 inch	ASTM E 83, Gauge Blocks

July 16, 2009  
Commencement Date

Print Date: 09/10/2009

TM  
*C. P. Ramani*  
C. P. Ramani, P.E.  
President

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Intertek Testing Services NA Ltd. CL-102

MEASUREMENT AREA	RANGE & RESOLUTION	BEST MEASUREMENT CAPABILITY <sup>1</sup> (BMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Mechanical</i> Force - Compression Follow the force method	0 to 50 lbf >50 to 50,000 lbf >50,000 to 300,000 lbf	0.1% Indicated Value 0.32% Indicated Value 0.54% Indicated Value	ASTM E 4, Load Cell ASTM E 4, Load Cell ASTM # 4, Load Cell
Force - Tension Follow the force method	0 to 100,000 lbf	709 lbf	ASTM E 4, Load Cell
Scales, Balances	1g to 5kg	See Note	ASTM E 898, Class F Weights
Pressure Air and water gauges	0 to 1,000 psi	0.5% of reading	Comparison to reference gages, set the force method, LOP COG- QLAB-004

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<sup>1</sup> "Best 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. Best 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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