

International Accreditation Service  
**CERTIFICATE OF ACCREDITATION**

*This is to signify that*

**A-A ENTERPRISES**

12421 CHARLOMA DRIVE  
TUSTIN, CALIFORNIA 92780

Calibration Laboratory CL-106

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 February 10, 2009, for the calibration discipline(s) listed in the approved scope of accreditation. The laboratory meets requirements of the IAS program requirements in the field of calibration.

*Patrick V. McCullen*

Patrick V. McCullen  
Vice President

*C. P. Ramani*

C. P. Ramani, P.E.  
President

*(see attached scope of accreditation for measurement area or type of test, range or quantity, best measurement capability, technique reference, standard equipment or unique conditions)*

Print Date: 03/06/2009

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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

AA-Enterprises CL-106

A-A Enterprises  
12421 Charloma Drive  
Tustin, CA 92780

Alice M. Haines  
Quality Assurance Manager  
(714) 730-7726

MEASUREMENT AREA	RANGE & RESOLUTION	BEST MEASUREMENT CAPABILITY <sup>1</sup> (BMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Mechanical</i> Force - Compression	0 to 500 lbf >500 to 20,000 lbf >20,000 to 200,000 lbf >200,000 to 850,000 lbf	0.18% of Reading 0.18% of Reading 0.22% of Reading  0.25% of Reading	ASTM E 4, load cells, procedure UTM-04, Follow the force method
Force – Tension	0 to 20,000 lbf >20,000 to 250,000 lbf	0.1% of Reading 0.3% of Reading	ASTM E 4, load cells, procedure UTM-04, Follow the force method

February 10, 2009  
Commencement Date

  
C. P. Ramani, P.E.  
President

Print Date: 03/06/2009

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AA-Enterprises CL-106

MEASUREMENT AREA	RANGE & RESOLUTION	BEST MEASUREMENT CAPABILITY <sup>1</sup> (BMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
Scale and Balance	Up to 1000 lb Up to 2 kg	See Note	Class S1, Class C Stainless Steel Weights
Hardness-Rockwell	"HRA" Scale "HRB" Scale "HRC" Scale "HR 15N" Scale "HR 30N" Scale "HR 45 N" Scale "HR 30 TW" Scale	1.1 HRA 1.1 HRB 1.1 HRC 1.1 HR 15N 1.1 HR 30 N 1.1 HR 45 N 1.1 HR 30 TW	Indirect Verification ASTM E 18

<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.

February 10, 2009  


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 Commencement Date



C. P. Ramani, P.E.  
 President

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