

Scope of Accreditation For McCann Equipment Ltd.

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In recognition of a successful assessment to ISO/IEC 17025:2005 and ANSI/NCSL Z540.3, accreditation is granted to **McCann Equipment Ltd.** to perform the following Calibrations:

Accreditation granted through: **June 29, 2013**

Calibration

Mass – Torque

| Calibration Parameter/Equipment ¹ | Range | Calibration and Measurement Capability(+/-) | Remarks |
|---|---|---|--|
| Hand Torque Wrenches and Torque Limiting Screwdrivers | 4 ozf-in to 2000 lbf-ft (0.028 to 2712) Nm | 0.48 % of applied load | ISO 6789 |
| Pneumatic Torque Wrenches | (0.4 to 25 000) lbf-ft (0.04 to 33 900) Nm | 1.52 % of applied load | Electronic Transducer and Display Unit per McCann procedures |
| Hydraulic Torque Wrenches | (127 to 25 000) lbf-ft (172 to 33 900) Nm | 1.17 % of applied load | |
| Electronic Torque Wrenches | 4 ozf-in to 2000 lbf-ft (0.028 to 2712) Nm | 0.6 % of applied load | |
| Hand Torque Multipliers | (127 to 25 000) lbf-ft (172 to 33 900) Nm | 0.59 % of applied load | |

Mass – Pressure / Low Vacuum

| Calibration Parameter/Equipment ¹ | Range | Calibration and Measurement Capability(+/-) | Remarks |
|--|---------------------|---|---|
| Hydraulic Pressure Gauge | (400 to 10 000) psi | 0.05 % of reading | Dead Weight Tester Pressuremets Model No. M2200 / 3H per ASME B40 |

Mass – Force

| Calibration Parameter/Equipment ¹ | Range | Calibration and Measurement Capability(+/-) | Remarks |
|---|-----------------------|--|------------------------|
| Bolt Load Meter | (200 to 10 000) lbf | 180 lbf | Skidmore J |
| | (2000 to 30 000) lbf | 328 lbf | Skidmore J & RJ |
| | (2000 to 126 000) lbf | 650 lbf | Skidmore M, MS & MZ |
| | (4000 to 170 000) lbf | 1252 lbf | Skidmore H & HS |

Calibration and Measurement Capability (CMC) represents expanded uncertainties at approximately a 95% confidence level using a coverage factor of k=2.

Notes:

- 1) Laboratory offers calibration services at the laboratory's own facilities and at the client or other agreed upon facilities.

Approved by: _____



R. Douglas Leonard
Chief Technical Officer

Date: September 1, 2011