



NVLAP

Assessor Training

Traceability



Important References

- ILAC P10:2002
- NVLAP Handbook 150:2006, Annex B



ILAC P10:2002

- Section 1.4: Characteristics of traceability
 - Unbroken chain of comparisons
 - Uncertainty of measurement
 - Documentation of the chain
 - Competence of the calibration provider
 - Reference to SI units
 - Calibration intervals



ILAC P10:2002

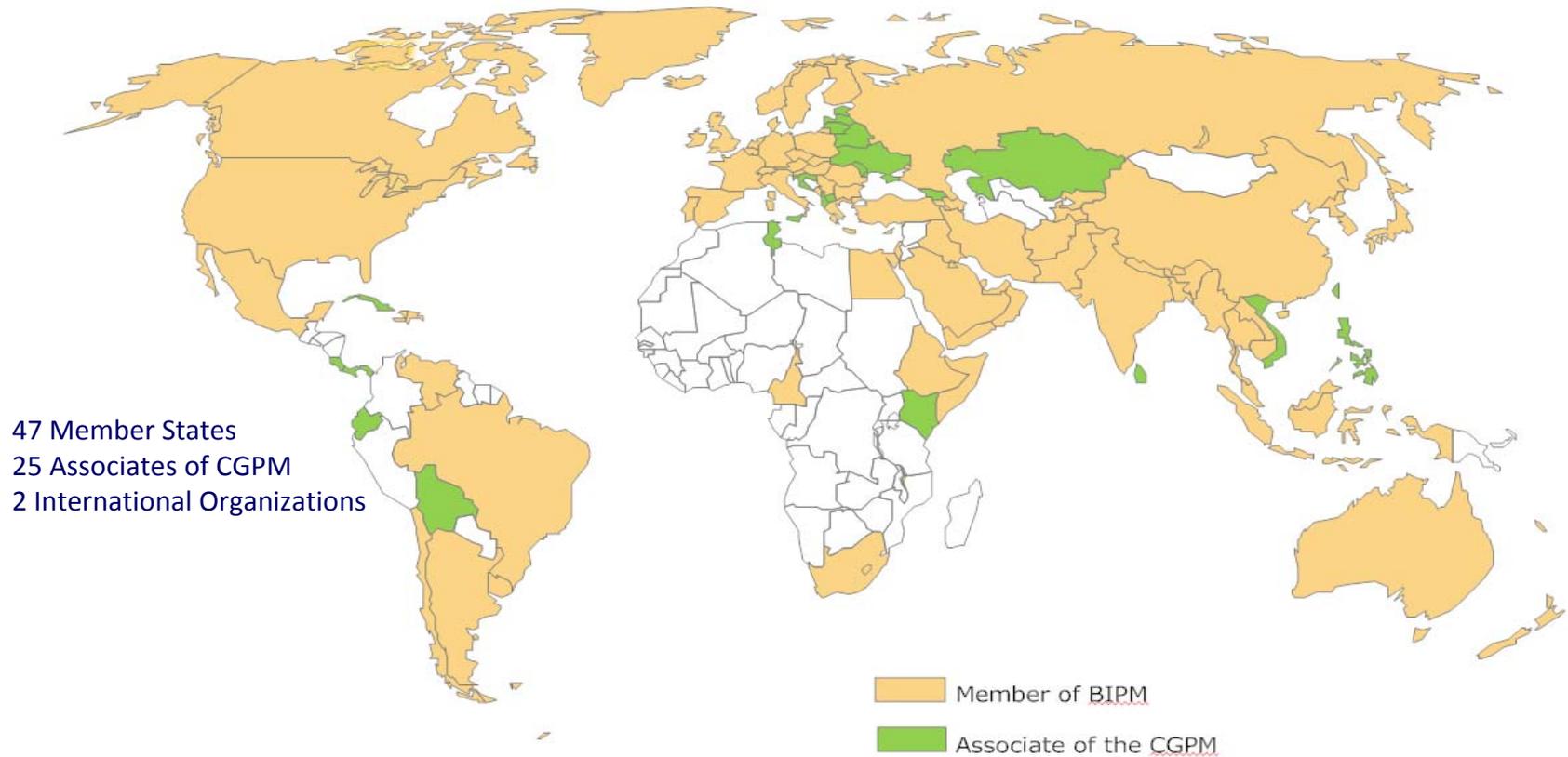
- Section 2: ILAC Policy on Traceability of Measurement Results
 - Accredited labs shall demonstrate calibration of measurements are traceable to SI units
 - Accredited labs shall in all cases derive their traceability either:
 - Appropriate NMI; or
 - Calibration Lab that can demonstrate competence, measurement capability, and traceability with appropriate measurement uncertainty



NIST Handbook 150: 2006 Annex B

- Calibration directly by NIST or another CIPM MRA recognized national metrology institute (NMI)
- Testing labs performing their own in-house calibrations
- Calibration by NVLAP accredited or provider accredited by another MRA partner

The CIPM MRA



<http://kcdb.bipm.org/appendixC/default.asp>



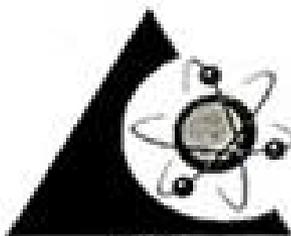
Recognized Accreditation Bodies and Their Symbols



Cert# LXXXX Calibration



NVLAP LAB CODE 000000-0



PJLA
Calibration





NIST Handbook 150:2006 Annex B

- What if there is no accreditation by an MRA partner?
 - Document that none is available
 - Audit the claim of traceability
 - Pursue the traceability chain until metrological traceability to appropriate stated references is completely validated
 - Maintain a complete record of the audit and results