



2015 SIM TFWG Workshop & Planning Meeting, *Panama City, Panama, January 27 – 29*

ANTIGUA & BARBUDA LAB REPORT

by

Alan Michael

Standardization Officer

Antigua and Barbuda Bureau of Standards

CONTENTS

- ✘ Antigua & Barbuda – Basic Info
- ✘ Antigua & Barbuda Bureau of Standards
- ✘ A & B Time & Frequency Metrology Status



ANTIGUA & BARBUDA – BASIC INFO



279.72 sq km (108 sq miles)



160.58 sq km (62 sq miles)



ANTIGUA & BARBUDA – BASIC INFO

- ✘ Population – 90,000 approx. (2011 census)
- ✘ Official Language – English
- ✘ Exports – petroleum products, bedding, handicrafts, electronic components, transport equipment, food & live animals
- ✘ Industries – tourism, construction, light manufacturing (clothing, alcohol, household appliances)
- ✘ GDP – EC\$ 3.34 Billion (US\$ 1.23 Billion)



A & B BUREAU OF STANDARDS

✘ Antigua and Barbuda Bureau of Standards (ABBS) :

+ Established – Standards Act (1987) Cap. 411

+ Purpose –

- ✘ To prepare and promulgate standards in relation to goods, services, processes and practices.
- ✘ Provide a broad base of technical, advisory and monitoring services for retailers, manufactures and service providers.
- ✘ National Metrology Institute



A & B BUREAU OF STANDARDS

+ Membership in –

- × Caribbean Regional Organisation for Standards and Quality (CROSQ)
- × Codex Alimentarius (WHO/FAO) Commission
- × Inter-American Metrology System (SIM)
- × Subscriber Member of the International Organization for Standardization (ISO)
- × Affiliate Member of the International Electrotechnical Commission (IEC).



A & B BUREAU OF STANDARDS

- ✘ 10 staff (2 x Metrology)
- ✘ Office/Lab relocated to Old Parham Road – Apr 2013
- ✘ Approximately 200 M² of open space for offices & labs each
- ✘ Layout drawings completed by PWD 4th Qtr 2014 – consulting with PTB on lab layout/eqpt.
- ✘ Construction to be put to tender



A & B BUREAU OF STANDARDS

+ Metrology

- × Metrology Act – 2007 (passed 2008)
- × NMI & Legal Metrology Institute (regulations pending)
- × Services:
 - ★ Verification in Mass & NAWI (airlines, hotels, small businesses)
 - ★ Calibration in Mass (F2 & below) & NAWI (hospital, airline catering, airline/helicopter, small business)
 - ★ EE Testing : refrigerators & lifetime testing of CFLs (2 labs)-to be launched shortly
 - ★ Calibration & verification of temperature devices (thermometers)- receiving equipment donated by PTB
- × Metrication Programme re-launched October 2011



ANTIGUA & BARBUDA – T & F METROLOGY STATUS

- ✘ Equipment donated by SIM – *September, 2011*
- ✘ *Installed January, 2012*
 - + *Antigua Computer Technologies Internet Co-location Centre (due pending re-location of ABBS) – Computer/Telecomms/Internet Provider*
- ✘ *Administered remotely via Microsoft Remote Desktop & Teamviewer Software*
- ✘ *No Services offered currently*



ANTIGUA & BARBUDA – T & F METROLOGY STATUS

✘ *Issues/Problems: No Measurement uploads to SIM Servers*

- ✘ *Due to tropical storm Gonzalo – power related (2014/08/18)*
- ✘ *ISP mistakenly re-assigning IP address (2014/11/17)*

✘ *Milestones*

- + *Installation of Software to steer Rubidium Standard to SIMT automatically by NIST (July 13, 2012)*
- + *Manual steering no longer required & working well*



ANTIGUA & BARBUDA – T & F METROLOGY STATUS

✘ Challenges –

- ✘ *Auto restart of measurements after a power failure (?)*
- + *Awareness – Business / Industry / Government / Public*
- + *Finance to develop services*
- + *Human Resource availability and competence*

✘ Future Plans -

- + *Training, Develop Awareness Programmes, Establish and Distribute National Time, Develop & Offer T & F Calibration & other services.*



Thank you for your attention!

