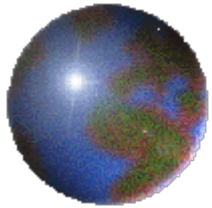




TCBC

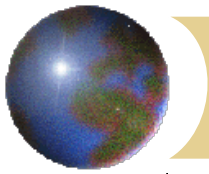


***TCB Activities
for FCC certifications***

Michael Derby

TCB Council Chairman

February 2014



TCBC

Introduction

- ✚ TCB Authorization Activities
- ✚ TCB Market Surveillance
- ✚ TCB Audit Sampling
- ✚ TCB Scope and Responsibilities
- ✚ Reporting non-compliances to a TCB
- ✚ Faked Test Data or Test Reports



TCB Authorizations

- ❖ TCBs perform FCC product certifications
 - ❖ Controlled by the FCC
 - “TCB Exclusion List” of devices and methods
 - TCB “Permit but Ask” list of devices and methods
 - Approximately 98% of certifications done by TCBs
 - ❖ Certification completed by the TCB
 - TCB performs full review to FCC requirements
 - TCB login to FCC website to complete the certification
 - This is unlike Industry Canada, where the CB completes an application and Industry Canada completes the certification



TCB Authorizations

- ❑ TCB not involved with Verification or DoC
- ❑ All documentation uploaded to FCC website
 - FCC website creates 'Certificate', known as 'Grant'
 - The applicant company is known as the 'Grantee'
 - FCC website holds all the certification documentation
 - Most documentation is public
 - Some technical documents are held confidential



TCB Market Surveillance

- ❖ TCB instructed to perform Market Surveillance by the FCC
 - ❖ Instructions to TCB in a KDB document
 - KDB 610077, TCB Post-Market Surveillance
 - There is a future proposal to include TCB market surveillance responsibility directly into the FCC rules
 - ❖ TCB submits an annual surveillance report to FCC
 - ❖ TCB audit program assessed during accreditation
 - Part of the TCB's accreditation audit



TCB Audit Sampling

- ❖ TCB Requests sample from Grantee
 - ❖ Sample based on certifications by the TCB
 - Request a sample that the TCB has certified
 - $\geq 5\%$ of devices certified, must be sampled
 - $\geq 1\%$ of devices with SAR, must be sampled
 - ❖ Device must be sent by Grantee to TCB
 - Failure to send device most likely leads to dismissal
 - Significant non-compliance
 - If no units were manufactured, certification dismissed



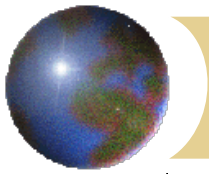
TCB Audit Sampling

- ❖ TCB Audit Sampling process
 - ❖ Audit Sampling paperwork and physical test
 - Review product label, user manual, appearance
 - Perform RF, EMC, SAR testing of the sample
 - ❖ Testing summary of main characteristics
 - Worst case power, frequency, emissions, etc.
 - ❖ Testing for compliance and consistency
 - Does it meet the FCC requirements?
 - Are results the same as during certification?



TCB Audit Sampling

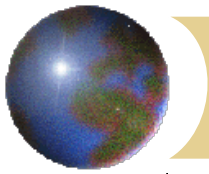
- ❖ TCB Audit Sampling results and reporting
 - ❖ TCB actions from Market Surveillance results
 - Compliant results are stored by TCB
 - Non-compliant results are reported to the FCC
 - ❖ TCB responsibilities
 - TCB is not responsible for enforcement or punishment
 - Only FCC is responsible for enforcement
 - TCB is permitted to discuss surveillance results with Grantee but it must be reported to the FCC



TCBC

TCB Scope and Responsibilities

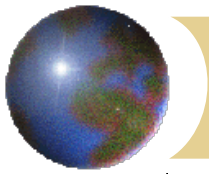
- ✚ TCB Limitations with Market Surveillance
 - ✚ TCB is not responsible for enforcement
 - ✚ TCB is not responsible for punishment
 - ✚ TCB must stay within scope of responsibilities
 - Certification, Surveillance, Reporting and Education
 - ✚ TCB Council provides education and guidance
 - Conference call for members and FCC, once per month
 - Extensive training workshops, twice per year



TCBC

Report Non-Compliance to TCB

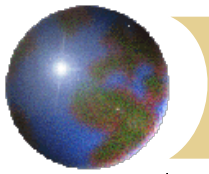
- ❖ TCB ability to react to complaints
 - ❖ Complaints should be directed to the FCC
 - ❖ TCB Council has a 'complaint' e-mail address
 - issues@tcbCouncil.org
 - Complaints are assessed by TCB Council Directors
 - Actions dependent on decision of TCBC Directors
 - If complaint is mistaken, person complaining is educated
 - If complaint is correct, the TCB who certified is informed
 - If complaint is significant and not corrected, FCC is informed
 - Subject of complaint is added to future education topics



TCBC

Report Non-Compliance to TCB

- ❖ TCB ability to react to complaints
 - ❖ Most complaints come from viewing FCC website
 - ❖ People complain if competitor has made mistake
 - Manufacturers, Test Labs, TCBs
 - ❖ Most complaints say someone else “doing less” or “getting away with something”
 - Some are genuine mistakes or misunderstandings
 - Some are deliberate attempts to reduce workload
 - Some are actually correct but facts are confidential



TCBC

Incorrect Data in Certification

- ❖ Mistakes or incorrect data in certification file
 - May be referred to as “false data”
- ❖ Incorrect data appearing in a test report
 - This may be an accident or a misunderstanding
- ❖ The FCC may dismiss it, if it is significant
 - Most likely the problem may be fixed without dismissal
 - TCB request application to be opened for correction
- ❖ Opportunity for TCB Council educational role
 - This would become a focus of Workshop or phone call



Fake Data in Certification

- ❖ Fraudulent data in certification file
 - May be referred to as “fake data”
- ❖ Incorrect data appearing in a test report
 - A deliberate abuse of the rules
 - False creation of test results or report, to avoid testing
 - Significant impact to business of honest companies
 - True performance of device may not be known
 - Data may have been faked to save money, or may have been faked because it was known the device would fail



Fake Data in Certification

- ❖ Guidance for identifying fake data in reports
 - ❖ Small group of TCBs formed a working group
 - ❖ Created a guidance document for the industry
 - Of course, not perfect and cannot catch every situation
 - ❖ Supported by the TCB Council and on website
 - Working group received FCC support also
 - ❖ Not needed by all TCBs
 - ❖ Very useful for some TCBs
 - Of course, relies on TCB wanting to do the right thing



Fake Data in Certification

- ❖ Identification of areas of concern
 - ❖ Agent creates fake report without lab knowledge
 - Agent claims to get testing cheap, but does not test
 - ❖ Lab creates fake report without manufacturer
 - Lab takes money from manufacturer but does not test
 - ❖ Fake report created by all parties
 - Manufacturer and lab work together
 - This is the most difficult to identify



Fake Data in Certification

✚ Guidance for TCBs

▣ For the TCB, solution is in communication

- Form relationships with customers
- Speak with unknown applicants
- Examine documentation closely
- Use engineering knowledge, not just accept numbers
 - Thorough engineering assessment and review

▣ Report non-compliances to the FCC

- FCC does take this seriously
 - FCC has been known to call multiple devices for audit sample

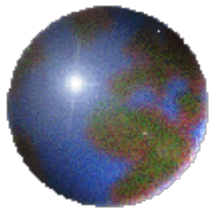


Future FCC Rule Proposal

- ✚ FCC has introduced Proposed Rule Changes
 - ✚ TCB to do 100% of certifications
 - ✚ TCB formally responsible for Market Surveillance
 - ✚ FCC to dedicate more time to enforcement

- ✚ This change is not guaranteed, it is a proposal

TCBC



Thank You

Michael Derby

TCB Council, Chairman

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