

Telecommunication Certification Body Technical Assessment Evaluation Form

March 27, 2006

Instructions to the Assessor: This evaluation form addresses specific criteria relating to accreditation of a Telecommunication Certification Body (TCB) to determine the capability and competence of that organization to approve equipment subject to certification requirements contained in the FCC Rules and Regulations (47 CFR Parts 0 through 101). It is intended for use during the assessment phase of the accreditation process as a guide to evaluate the competence of the TCB and its personnel to perform the required evaluations for certification. It is not intended to replace the good engineering judgment of the technical assessor or a thorough evaluation of the facility. Other points may and should be added to this checklist as the on-site assessment progresses.

Mark all items you observed and verified at the TCB. Mark the box with the letter "Y," representing "acceptable" to show conformance with the criteria. **Mark the box with the letter "N," representing "Not Acceptable," to show a deficiency.** Record the item number and write the deficiency explanations and/or comments in this list on the comment sheets(s). Place the letter "C" beside each item on which you are commenting for other reasons. If the item is "Not Applicable", mark with the box with the letter "X" beside the item.

		Y	N	X	Remarks
No.	General Questions				
1.	Applicant is knowledgeable of its responsibilities and limitations for certifying products subject to certification under the FCC Rules and Regulations. Ask a number of questions about TCB authority and responsibility. Copies of appropriate documentation governing a TCB are available for reference (<i>e.g. R&O in FCC ET Docket 98-68 and Public Notice, DA 99-1640</i>).				
2.	Applicant is accredited to ISO/IEC 17025 with the appropriate scope.				
3.	Procedure is in place to accept test data from any accredited laboratory.				
4.	Procedure is in place and is being followed for performing post market surveillance audits of equipment that it has certified.				
5.	Demonstrates an understanding of overall structure of the FCC Rules and is capable of locating specific rule sections.				
6.	Demonstrates an understanding of rules governing confidentiality (47 CFR 0.457 et al.) and capable of making the appropriate filing for confidential material.				
7.	Demonstrates an understanding of the marketing rules contained in 47 CFR Part 2, Subpart I and their impact on the certification of equipment.				
8.	Can explain the difference between verification, Declaration of Conformity and certification and explain when certification is required.				

		Y	N	X	Remarks
9.	Can explain “Identical” and “Responsible Party” as used in 47 CFR 2.907 and 2.908, respectively.				
10.	Can explain application process contained in 47 CFR 2.911 to 2.947. (<i>Ask questions about the information to be contained in the application and changes in control of the grantee.</i>)				
11.	Can explain and document what equipment the TCB is authorized to certify.				
12.	Can explain the RF exposure requirements in 47 CFR 2.1091 to 2.1093 and the conditions under which the TCB can authorize products subject to these requirements, if any.				
13.	Can explain the importation rules in 47 CFR Part 2, Subpart K.				
14.	Demonstrates knowledge of permissive change rules for licensed and unlicensed transmitters, including interpretations thereof. (<i>See 47 CFR 2.1043</i>)				
15.	Can explain labeling, identification and user information rules and interpretations, thereof. (<i>See 47 CFR 2.925-2.926, 2.933, 15.19, 15.27, 15.214, 15.121(f), 15.233, 15.247 and 15.249</i>)				
16.	Understands and has working knowledge of the FCC database. (<i>Ask for a demonstration of entering application in the FCC database.</i>)				
17.	Understands and has working knowledge of emission designators for transmitters.				
18.	Applicant has evaluation checklists for each type of product it certifies.				
19.	Understands and has working knowledge of FCC note and grantee codes.				

		Y	N	X	Remarks
No.	Scope A: Unlicensed Radio Frequency Devices				
	Documentation check <i>The following documents are required at a minimum and should be expanded as necessary for the scope of accreditation :</i>				
20.	Has a copy of the appropriate FCC rule parts (e.g., 47 CFR Parts 2, 11, 15 and 18).				
21.	Has a copy of the appropriate measurement standards (e.g., ASC-ANSI C-63.4 (2003) and FCC MP-5).				
22.	Has a copy of the relevant RF safety documents (e.g., OET Bulletins 65 and relevant appendices).				
	Testing Capability and Core Test Facilities <i>(A TCB shall have the following minimum facilities and equipment. It shall also demonstrate that it has a procedure in place and is capable of performing tests for each of the products it will certify.)</i>	Y	N	X	Remarks
23.	A calibrated radiated emissions test site that is compliant with C-63.4 (2003).				
24.	Calibrated EMI receivers or spectrum analyzers covering 9 kHz to 1 GHz for radiated emission measurements.				

		Y	N	X	Remarks
25.	Loop antenna(s) from 9 to 30 MHz, linearly polarized antenna 30 - 1000 MHz.				
26.	A conducted emissions test site that is compliant with C63.4 (2003). <i>(The site should include at least 2 calibrated LISNs rated at 115V/60 Hz and the test site should have 115V/60 Hz power available.)</i>				
27.	A spectrum analyzer for power density and RF bandwidth measurements.				
28.	A temperature chamber covering the temperature range of -20° C to +50° C.				
29.	A frequency counter with an upper range of at least 1 GHz or other means to measure transmitter frequencies accurately.				
30.	A RF wattmeter with probes up to 1 GHz.				
31.	Ask a certification examiner to perform and present the test results for the following measurements <i>(Samples to be provided by the TCB)</i> : <ul style="list-style-type: none"> • Radiated emissions on low power transmitter with a transmit frequency below 1 GHz • Conducted emissions on a transmitter base station or scanning receiver • RF power measurements 				
	General Requirements in Subpart A of Part 15	Y	N	X	Remarks
32.	Understands and has a working knowledge of the scope, definitions and general operation of RF devices contained in 47 CFR 15.1 to 15.17. <i>(Provide a few verbal examples of devices to see if the TCB can determine the appropriate classification of each device.)</i>				
33.	Understands and has working knowledge of the labeling requirements in 47 CFR 15.19. <i>(Provide a few verbal examples and ask applicant to describe or draw the appropriate label.)</i>				
34.	Understands and has working knowledge of FCC policy for modular transmitters.				
35.	Understands and has working knowledge of FCC requirements for special accessories and composite devices contained in 47 CFR 15.27 and 15.31, respectively.				
36.	Understands and has working knowledge about the FCC measurement procedures contained in 47 CFR 15.31. <i>(Provide verbal examples of devices that test knowledge of the special procedures contained in this section.)</i>				
37.	Understands and has working knowledge of the requirements contained in 47 CFR 15.33 to 15.35 regarding frequency range of measurements and detector functions, respectively.				
	Unintentional Radiators - Subpart B of Part 15	Y	N	X	Remarks
38.	Explain the requirements for a scanning receiver (47 CFR 15.121) and interpretation thereof.				

		Y	N	X	Remarks
39.	Explain the requirements for equipment subject to both certification and DOC. Have the TCB explain the requirements for each type of device. (<i>e.g., Consumer ISM, CB receiver, super-regenerative and other receivers, TV interface device, Personal Computers and associated equipment</i>).				
	Intentional Radiators below 1 GHz - Subpart C of Part 15	Y	N	X	Remarks
40.	Has developed and is using an adequate checklist for approval of low power transmitters subject to certification.				
41.	Understands and has a working knowledge of the authorization and antenna requirements contained in 47 CFR 15.201 and 15.203, respectively.				
42.	Understands and has a working knowledge of the restricted bands, conducted and radiated general emission limits contained in 47 CFR 15.205, 15.207 and 15.209, respectively. (<i>Provide verbal examples of devices that test the knowledge of the requirements for devices contained in these sections for general application intentional radiators. Also, ask for an explanation of the appropriate detector functions to be used during the measurement of such devices. Ask what devices are exempt from these limits?</i>)				
43.	Ask for a demonstration or explanation of how to measure and compute the average field strength of pulsed emissions from a remote control and security transmitter.				
44.	Ask for an explanation of the procedures for measuring band-edge emissions.				
45.	Understands and can adequately explain the requirements for conducted emission limits contained in 47 CFR 15.207.				
46.	Understands and can adequately explain the requirements for general radiated emission limits contained in 47 CFR 15.209.				
47.	Understands and can explain the requirements for low power transmitters operating on frequencies below 30 MHz. (<i>See 47 CFR 15.207 to 15.219</i>) (<i>Ask questions about the appropriate antenna(s) and detector functions to be used and the measurement of swept frequency devices.</i>)				
48.	Understands and can explain the requirements for low power transmitters operating in the frequency range of 30 to 1000 MHz. (<i>See 47 CFR 15.207, 15.209, 15.214, and 15.229 to 15.243</i>) (<i>Ask questions about the special requirements for cordless telephones, remote control and security devices and biomedical telemetering devices, as well as the measurement of spurious emissions above 1 GHz.</i>)				

		Y	N	X	Remarks
49.	Understands and can explain the requirements for low power transmitters operating on frequencies above 1 GHz. (See 47 CFR 15.207, 15.209, 15.214, 15.245, 15.249, 15.251, 15.253 and 15.255.) (Ask questions about the special requirements for field disturbance sensors, vehicle radar systems, millimeter wave systems, as well as the measurement of peak and average measurement of emissions above 1 GHz.)				
50.	Understands and can explain the requirements and measurement procedures for unlicensed Personal Communication Systems. (See 47 CFR 15 Subpart D)				
51.	Understands and can explain the requirements and measurement procedures for spread spectrum systems. (See 47 CFR 15.247) (Ask questions about the special requirements and interpretations for frequency hopping and direct sequence systems. Be aware of the recent interpretations relating to minimum number of hops for hopping systems and processing gain for direct sequence systems. Also, questions about directional antennas, labeling, etc.)				
52.	Understands and can explain the requirements and measurement procedures for Unlicensed National Information Infrastructure systems. (See 47 CFR 15 Subpart E) (Ask questions about the special requirements and interpretations for NII systems. Also, questions about directional antennas, labeling, etc.)				

		Y	N	X	Remarks
	Scope B: Licensed Radio Service Equipment				
	Documentation check (The following documents are required at a minimum and should be expanded as necessary for the scope of the accreditation)				
53.	Has a copy of the appropriate FCC rule parts (e.g., FCC Parts 0 through 101, depending on the scope of accreditation)				
54.	Has a copy of the relevant test procedures and guidance documents, such as: EIA/TIA Standard 603 and TIA Bulletin TSB 10				
55.	Has a copy of the relevant FCC Public Notices such as: DA 95-1854, and MM 97-217				
56.	Has a copy of the FCC Bulletins OET 43 and OET 65 with appendices A, B and C.				
	General Requirements for the Licensed Radio Services	Y	N	X	Remarks

		Y	N	X	Remarks
57.	As a minimum the TCB shall own and be capable of using the following calibrated test equipment and facilities: <ul style="list-style-type: none"> • RF wattmeter and probes up to 40 GHz • Spectrum analyzer or receiver and antennas up to 40 GHz • Temperature chamber covering -30° to +50°C • Frequency counter or other means of measuring accurately up to 40 GHz • Facilities for performing each of the core tests described in the next item 				
58.	Understands and has working knowledge of the general measurement procedures for licensed transmitters contained 47 CFR 2.1046 to 2.1060. (<i>Ask specific questions about each of the following procedures contained in these rule sections and the latest interpretations governing their application to specific transmitters. They should understand and be capable of using the procedures in TIA/EIA Standard 603-A-2001.</i>) <ul style="list-style-type: none"> • RF power output • Modulation characteristics • Occupied bandwidth • Spurious emissions at antenna terminals • Field strength of spurious emissions • Frequency spectrum • Specific tests for the amateur radio service 				
59.	Understands and is capable of creating line entries for the grant of certification consisting of the following parameters: <ul style="list-style-type: none"> • Grant notes • Rule parts • Frequency range • Power output • Frequency tolerance • Emission designator 				
60.	Has in place and is using an acceptable checklist for evaluation of an application for certification of a licensed radio transmitter for each radio service.				
	Specific Licensed Radio Service Equipment	Y	N	X	Remarks
61.	Understands and has working knowledge of Emergency Alert System equipment described in 47 CFR Part 11.				
	Category 1 - Personal Mobile Radio Services	Y	N	X	Remarks
62.	Understands and has working knowledge of Cellular Radio Service equipment described in 47 CFR Part 22 Subpart H, including the special requirements contained in 47 CFR 2.1091 and 2.1093.				
63.	Understands and has working knowledge of narrow-band PCS equipment contained in 47 CFR Part 24 Subpart D, including the special requirements contained in 47 CFR 2.1091 and 2.1093.				

		Y	N	X	Remarks
64.	Understands and has working knowledge of broad-band PCS equipment contained in 47 CFR Part 24 Subpart E, including the special requirements contained in 47 CFR 2.1091 and 2.1093.				
65.	Understands and has working knowledge of Satellite communication equipment contained in 47 CFR Part 25, including ITU GMPCS MOU registry and the special requirements contained in 47 CFR 2.1091 and 2.1093.				
66.	Understands and has working knowledge of wireless communication service (WCS) equipment contained in 47 CFR Part 27, including the special requirements contained in 47 CFR 2.1091 and 2.1093.				
	Category 2 - General Mobile Radio Services	Y	N	X	Remarks
67.	Understands and has working knowledge of non-cellular, public mobile radio service equipment contained in 47 CFR Part 22 Subparts E, F and G.				
68.	Understands and has working knowledge of auxiliary broadcast service equipment contained in 47 CFR Part 74 Subparts D, E and H.				
69.	Understands and has working knowledge of private land mobile radio services equipment contained in 47 CFR Part 90, including the special requirements for equipment operating in the frequency band 806 to 940 MHz.				
70.	Understands and has working knowledge of personal radio services equipment contained in 47 CFR Part 95 Subparts A, B, C, D, F and G, including the special requirement for equipment in each of the following radio services: <ul style="list-style-type: none"> • General Mobile • Family Radio Service (FRS) • Radio Control • Citizen Band • Medical Implant Communications Service (MICS) • 218-219 MHz Service • Low Power Radio Service (LPRS) • Wireless Medical Telemetry Service (WMTS) • Multi-Use Radio Service (MURS) • Personal Locator Beacons (PLB) 				
71.	Understands and has working knowledge of amateur radio service equipment contained in 47 CFR Part 97, including the special requirements for kits in 47 CFR 2.1060.				
	Category 3 - General Mobile Radio Services	Y	N	X	Remarks
72.	Understands and has working knowledge of maritime radio service equipment contained in 47 CFR Part 80, including the special requirements for EPIRBs, as well as those contained in 47 CFR 80.203.				
73.	Understands and has working knowledge of aviation radio service equipment contained in 47 CFR Part 87, including the special requirements for ELTs and the requirement in 47 CFR 87.147(d)(2).				

		Y	N	X	Remarks
	Category 4 - Microwave Radio Services	Y	N	X	Remarks
74.	Understands and has working knowledge of Broadband Radio Services and Educational Broadband Services equipment contained in 47 CFR 27 Subpart M.				
75.	Understands and has working knowledge of microwave television auxiliary broadcast service equipment contained in 47 CFR 74 Subparts F including the special requirements in public notices: DA-95-1854 and MM97-217.				
76.	Understands and has working knowledge of microwave radio service equipment contained in 47 CFR 101 Subparts C, G, J and I, including the special requirements minimum data rate and 47 CFR 101.109.				

		Y	N	X	Remarks
	Scope C : ACTA and Part 68 Telephone Equipment				
	Administrative Review of Application Package, ACTA Form and Related Documents				
77.	Ability to obtain or create responsible party code (item 7 on the ACTA Form) based on applicant entry.				
78.	Ability to confirm U.S. Agent for service (item 5 on the ACTA Form) (US telephone contact and agent URL)				
79.	Ability to obtain or create manufacturer's code (item 8 on the ACTA Form on manufacturer entry).				
80.	Ability to obtain or create responsible party to get grant code or creation of new code or otherwise track party to whom the grant is sent (item 4 on the ACTA Form).				
81.	Ability to retrieve records by current certification (item 9 on the ACTA Form).				
82.	Ability to confirm and or correct filing status (item 14 on the ACTA Form).				
83.	Ability to confirm and or correct equipment code (item 10 on the ACTA Form).				
84.	Ability to confirm and or correct the equipment description included in the supporting documentation (listed as Item 6 on the ACTA Form).				
85.	Ability to evaluate schematics provided with equipment to be tested for compliance with the ACTA and FCC Rules.				
86.	Ability to evaluate photographs contained in the supporting equipment report.				
87.	Ability to confirm and or correct trade names and model numbers (listed as items 11a and 11b on the ACTA Form).				
88.	Ability to confirm and or correct connector attestation and check consistency with the information supplied in the supporting documentation (item 13c on the ACTA Form).				
89.	Check understanding of continuing compliance requirement (see TSB-129-A 5.3).				

		Y	N	X	Remarks
90.	Ability to confirm and or correct AC Ringer Equivalents (item 13a on the ACTA Form).				
91.	Ability to confirm claim for Hearing Aid Compatibility (HAC) (item 13b on the ACTA Form) (See 47 CFR 68.316).				
92.	Ability to confirm and or correct USOC Jack entry (item 13c on the ACTA Form).				
93.	Ability to confirm and or correct the ability to perform repeat dials (item 13d on the ACTA Form).				
94.	Ability to confirm and or correct number of attempts (Recorded in the test evaluation supporting the materials provided to the ACTA).				
95.	Ability to confirm and or correct claim for fax branding (recorded in the test evaluation supporting the materials provided to the ACTA).				
96.	Ability to confirm and or correct entries for transmission rates and protocols for various devices (recorded in the test evaluation supporting the materials provided to the ACTA).				
97.	Ability to confirm and or correct claim for type A and type B surge, and support for claim in test data (recorded in the test evaluation supporting the materials provided to the ACTA).				
98.	Ability to confirm and or correct claim for location of label for coin phones, credit card devices and telemarketing equipment, and support for claim in supporting documentation for the ACTA provided materials (TIA/TSB-168-A).				
	Application Form Entries for Systems	Y	N	X	Remarks
99.	Ability to confirm and or correct claim for DID and NANP compliance, and support for claim (recorded in the test evaluation supporting the materials provided to the ACTA).				
100.	Ability to confirm and or correct claim for equal access compliance, and support for claim in customer provided information included in the supporting documentation.				
101.	Ability to confirm and or correct entries for system port identification, facility, answer supervision & service order codes (items 15, 16, 17, and 18 on the ACTA Form).				
102.	Ability to confirm and or correct entries for contents of registration envelope, system configuration: trade name, model number, (items 11a and 11b on the ACTA Form). Number of Central Office ports, number of stations, number of generic ports (information included in the supporting documentation).				
103.	Ability to confirm and or correct entries for contents of type of stations table: standard, proprietary, cordless, hearing aid compatible, WT Sec. Codes (information included in the supporting documentation for the ACTA supplied information).				

		Y	N	X	Remarks
104.	Ability to confirm and or correct entries for contents of ancillary equipment table: trade names, model numbers, list of equipment by type, manufacturer's identification (item 19 on the ACTA Form).				
105.	Ability to verify certification responsibility for engineering information (information included in the supporting documentation for the ACTA supplied information).				
106.	Ability to verify that lab procedures are on file for lab performing the required testing for the equipment.				
107.	Ability to verify presence of agency agreement.				
	Supporting Exhibits - Labeling and Customer Information	Y	N	X	Remarks
108.	Ability to verify that labeling requirements of 68.300 and TSB168-A are met.				
109.	Ability to verify that customer information requirements of section 68.218 and of the ACTA Customer Information document are met.				
	Supporting Exhibits - Test Results	Y	N	X	Remarks
110.	Demonstrate understanding of proper sequence of environmental tests and other tests as described in Figure 5.1.1 of TSB31B.				
111.	Check understanding of which tests are needed for each type of connection (loop start, ground start, reverse battery, lossless two wire tie-trunk, lossless four wire tie-trunk, off premises circuit, local area data channels, ring down signaling private lines, metallic signaling private lines, in-band signaling private lines, digital PSDS lines, ISDN lines, DS1 lines).				
112.	Ability to evaluate claims of test results before and after surge tests TIA-968-A, Sections 4.2.2.1, 4.2.2.2, 4.2.3.1, 4.2.3.2, and 4.2.4.				
113.	Ability to evaluate claims of test results for leakage current, TIA-968-A, Section 4.3.				
114.	Ability to evaluate claims of test results for hazardous voltage limit and other requirements of TIA-968-A, Section 4.4.				
115.	Ability to evaluate claims of test results for limits on voice band metallic signal power specified in TIA-968-A, Section 4.5.				
116.	Ability to evaluate claims of test results for limits on signal power of other than live voice or network control signals specified in TIA-968-A, Section 4.5.				
117.	Ability to evaluate claims that through-transmission equipment meets requirements specified in various sections of TIA-968-A, Section 4.5.				
118.	Ability to evaluate claims that voice band signal power levels of data circuit equipment meet requirements specified in TIA-968-A, Sections, 4.5.2.4.1-3.				

		Y	N	X	Remarks
119.	Ability to evaluate claims that amplification, signal power, and insertion loss of one-port and multi-port and protective circuitry with provision for through transmission equipment meet requirements specified in TIA-968-A, Sections, 4.5.2.5.1-2.				
120.	Ability to evaluate claims that return loss and transducer loss of equipment intended for 2-wire and 4-wire tie trunks meet requirements specified in TIA-968-A, Sections 4.5.2.6.1 and 4.5.2.6.2.				
121.	Ability to evaluate claims of test results for limits on DC conditions of equipment intended for connection to off premises station lines specified in TIA-968-A, Sections 4.4.1, 4.4.4, 4.4.4.4, 4.5.2.3.1, 4.5.2.7 and 4.7.6.				
122.	Ability to evaluate claims of test results for limits on signal power in the 3995 Hz to 4005 Hz band of equipment intended for connection to DS1 services specified in TIA-968-A, Section 4.5.3.				
123.	Ability to evaluate claims of test results for limits on through transmission loss of equipment intended for connection to DS1 services specified in TIA-968-A, Section 4.5.2.5.				
124.	Ability to evaluate claims that transverse balance measurements of equipment meet requirements specified in TIA-968-A, Section 4.6 under conditions specified in Section 4.5.7.				
125.	Ability to evaluate claims that metallic voltage signals in the 4 kHz to 30 MHz range of non LADC equipment meet requirements specified in TIA-968-A, Section 4.5 under conditions specified in Section 4.5.7.				
126.	Ability to evaluate claims that transverse voltage signals in the 4 kHz to 6 MHz range of non LADC equipment meet requirements specified in TIA-968-A, Section 4.5.5.2 under conditions specified in Section 4.5.7.				
127.	Check understanding that the upper value of 6 MHz and 30 MHz for metallic in the immediately preceding does not mean that equipment generating only signals at higher frequencies is not subject to Part 68				
128.	Ability to evaluate claims that in the 100 Hz to 30 MHz metallic range the source and/or terminating impedance of LADC equipment meets requirements specified in TIA-968-A, Section 4.5.6.				
129.	Ability to evaluate claims that metallic voltage signals of LADC equipment in the 100 Hz to 30 MHz range meets requirements specified in TIA-968-A, Section 4.5.6.1 and 4.5.6.2 under conditions specified in Section 4.5.7.				
130.	Ability to evaluate claims that transverse voltage signals of LADC equipment in the 100 Hz to 6 MHz range meet requirements specified in TIA-968-A, Section 4.5.6.3 under conditions specified in Section 4.5.7.				
131.	Check understanding of the conditions enumerated in TIA-968-A, Section 4.5.7 though 4.5.7.8.				

		Y	N	X	Remarks
132.	Ability to evaluate claims that transverse balance measurements meet requirements specified TIA-968-A, Section 4.6.				
133.	Ability to evaluate claims that on-hook impedance for equipment intended for connection to 2-wire and 4-wire loop start interfaces meet requirements specified in TIA-968-A, Sections, 4.7.2.1 & 4.7.2.11.				
134.	Ability to evaluate claims that on-hook current and impedance during ringing for equipment intended for connection to 2-wire and 4-wire loop start interfaces meet requirements specified in TIA-968-A, Sections, 4.7.2.1.2 & 4.7.3.1.				
135.	Ability to evaluate computation of ringer equivalence number in accordance with TIA-968-A, Sections, 4.7.2.1.3 and 4.7.3.2 and that ringer equivalence number labeling is in accord with TIA-968-A, Section 4.7.4.				
136.	Ability to evaluate claims that PBX ringing supplies comply with TIA-968-A, Section 4.7.6.				
137.	Check understanding of the use of Type Z Ringers referenced in TIA-968-A, Section 4.7.7.				
138.	Ability to evaluate claims that equipment complies with the transition to off-hook requirements of TIA-968-A, Section 4.7.8. Check understanding of what constitutes off-hook for purposes of defining the start of the 2.1 seconds for stutter dial tone check.				
139.	Ability to evaluate claims that protective circuitry connected to associated data equipment complies with signal power limits of TIA-968-A, Section 4.8 during the 2 second interval immediately following the transition to off hook .				
140.	Ability to evaluate claims that data equipment assures that signals transmitted during the 2 second interval immediately following the transition to off hook comply with the restrictions of TIA-968-A, Section 4.8.1.1.				
141.	Ability to evaluate claims that, in the on-hook condition power delivered into 2 wire and 4 wire loop simulators, by voice and data equipment intended for loop start and ground start interfaces, meets the limits prescribed in TIA-968-A, Section 4.8.1.1.1.				
142.	Ability to evaluate claims that, in the on-hook condition, power delivered into 2-wire and 4-wire loop simulators, by voice and data equipment intended for reverse battery interfaces, meets the limits prescribed in TIA-968-A, Section 4.8.2.				
143.	Ability to evaluate claims that, in the 5 second interval following transition to the off- hook condition, for voice and data equipment, the loop current meets the requirements prescribed in TIA-968-A, Section, 4.8.3.				

		Y	N	X	Remarks
144.	Ability to evaluate claims that, in the 2 second interval following transition to the off-hook condition, signal power delivered to the network by terminal equipment and signal sources in protective circuitry in the 2450 Hz to 2750 Hz band be less than or equal to the power present simultaneously in the 800 Hz to 2450 Hz band, TIA-968-A, Section 4.8.4.				
145.	Ability to verify compliance with the requirements for Hearing-Aid Compatibility (HAC) of Section 68.316.				
146.	Ability to verify compliance with the requirements for volume control of 68.317.				
147.	Ability to verify compliance with the requirements for automatic redialing of 68.318(b).				
148.	Ability to verify compliance with the requirements for FAX branding of 68.318(d).				
149.	Ability to verify compliance with the answer supervision requirements of TIA-968-A, Section 4.8.7.				
150.	Ability to verify compliance with the requirements for protective circuitry TIA-968-A, Section 4.8.7.2.				
	Supporting Results for Digital Equipment	Y	N	X	Remarks
151.	Ability to evaluate claims that, for digital signals delivered to the network by terminal equipment intended for connection to subrate or DS1 or ISDN digital services, encoded analog energy in the 2450 Hz to 2750 Hz band be less than or equal to the encoded analog energy present simultaneously in the 800 Hz to 2450 Hz band, in the 2 second interval following transition to the off-hook state TIA-968-A, Section 4.8.4.1.				
152.	Ability to evaluate claims that, for terminal equipment intended for connection to subrate or DS1 digital services, in the on-hook state, comply with the limits of TIA-968-A, Section 4.8.5.1.				
153.	Ability to evaluate claims that, for terminal equipment intended for connection to DS1 digital services, signal bit information representing the off-hook state is transmitted during the 5 second interval following transition to the off-hook state, unless the equipment returns to the on-hook state during that interval TIA-968-A, Section 4.8.6.				
	Records and Documentation	Y	N	X	Remarks
154.	Have procedures to evaluate and maintain copies of test procedures (provided by test laboratories, including laboratories of applicants) associated with applications (68.200(d)).				
155.	Ability to create or obtain, and maintain applicant, manufacturer, and equipment codes.				
156.	Ability to create or obtain, and maintain audit trail for modifications of registrations.				
157.	Ability to create or obtain, and maintain audit trail for addition of trade names and model numbers to registrations.				

		Y	N	X	Remarks
158.	Ability to generate certificate containing all required data.				
159.	Demonstrate ability to provide the ACTA with the ACTA Form information.				
	Specific Criteria	Y	N	X	Remarks
160.	Verify that the TCB possesses a thorough knowledge of FCC Rules contained in 47 CFR Part 68, and the ACTA rules contained in TIA-968-A including latest interpretations thereof.				
161.	Verify that the TCB possesses a thorough knowledge of all appropriate procedures (e.g., TSB 31B) for testing and evaluating telephone terminal equipment.				
162.	Verify that the TCB possesses a thorough understanding of the ACTA equipment authorization program and specifically the following: Operating Principles and Procedures; ACTA Customer Information and TIA-TSB168-A Labeling Requirements.				
163.	Verify that the TCB is able to differentiate situations falling under 68.214(b) from situations falling under 68.214(a).				
164.	Verify that the TCB understands the procedure for approval of components.				
165.	Verify that the TCB has copies of all applicable FCC rules and test procedures and is able to demonstrate an ability to obtain recent rules and interpretations				
	Testing and Evaluation Capabilities	Y	N	X	Remarks
166.	Demonstrate ability to perform environmental simulation measurements. Specifically demonstrate ability to perform Type A and Type B surge tests. (TIA-968-A, Section 4.2)				
167.	Demonstrate ability to perform leakage current measurements. (TIA-968-A, Section 4.3)				
168.	Demonstrate ability to perform hazardous voltage measurements. (TIA-968-A, Section 4.4)				
169.	Demonstrate ability to perform analog signal power measurements. (TIA-968-A, Section 4.5)				
170.	Demonstrate ability to perform digital signal power measurements. (TIA-968-A, Section 4.5.8)				
171.	Demonstrate ability to perform transverse balance measurements. (TIA-968-A, Section 4.6)				
172.	Demonstrate ability to perform on-hook impedance measurements. (TIA-968-A, Section 4.7)				
173.	Demonstrate ability to perform billing protection measurements. (TIA-968-A, Section 4.8)				
174.	Demonstrate ability to perform hearing aid compatibility measurements. Specifically demonstrate an understanding of magnetic field strength measurements. (ANSI/EIA/TIA-RS-504) and acoustics measurements (ANSI/EIA/TIA-579-1991 and ANSI/EIA/TIA-470-A-1987)) (68.316 and 68.317)				

		Y	N	X	Remarks
175.	Demonstrate ability to perform DID answer supervision and fax branding. (68.318)				