ANSI-ASC-C63® Interpretation Request Form

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Submission Date	Originator Name, Company
02/20/2015	Takashi Maruyama / LAB. Support Ltd.

Standard	Clause/ Sub clause	Paragraph Figure/ Table	Type (General/ Technical/ Editorial)	Comment / Inquiry	Subcommittee Response (to be filled in by Subcommittee Chair)

Standard	Clause/ Sub clause	Paragraph Figure/ Table	Type (General/ Technical/ Editorial)	Comment / Inquiry	Subcommittee Response (to be filled in by Subcommittee Chair)
C63.4-2014	Annex D D.2 NSA measurement:	Equation (D.1)	Technical	Basic procedure Two antennas are set up on the test site in an appropriate geometry as shown in Figure D.1 and Figure D.2. The NSA procedure requires two different measurements of the voltage received VR. The first reading of VR is with the two coaxial cables disconnected from the two antennas and connected to each other via an adapter. The second reading of VR is taken with the coaxial cables reconnected to their respective antennas and the maximum signal measured with the receive antenna scanned in height (Heirman [B20]). For both of these measurements, the signal source VI is kept constant. The first reading of VR is called VDirect and the second is called VSite. These are used in Equation (D.1) for the measured NSA AN: AN= Vdirect-AFT-AFR-◿ AFTOT, for tuned dipole Vdirect-AFT-AFR-GSCF, for biconical Vdirect-AFT-AFR, for all other antennas (D.1)	The observation is correct. The equation will be changed in the next revision of the standard.

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C63.4-2014	Annex D D.2 NSA measurement:	Equation (D.1)	Technical	D.2, Equation (D.1) described "GSCF" is only apply for biconical antenna. Clause 4.5, Table 3 described Hybrid antenna can use for NSA. If Hybrid antenna used for NSA, GSCF (Measured by ANSI C63.5-2006, Annex H) shall be required. Also some case of LPDA and biconical antenna other than described in ANSI C63.5-2006 Annex G need the GSCF for NSA measurement. Annex D, D.2, Equation (D.1) should be revised as follows; AN= Vdirect-AFT-AFR-⊿ AFTOT, for tuned dipole Vdirect-AFT-AFR-GSCF (Using ANSI C63.5-2006 Annex G), for biconical Vdirect-AFT-AFR-*GSCF, (Using ANSI C63.5-2006 Annex H), for Biconical (other than described in ANSI C63.5-2006 Annex G), Log-Periodic and Hybrid *GSCF apply optional (D.1)	