					nte 5/06/2011	Document C63.4-2009
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National Committee	Clause/ Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/Editorial)	COMMENTS	Proposed change	OBSERVATIONS OF THE SECRETARIAT on each comment submitted
C63®	5.5	1	Technical	In response to the explanation published by ANSI C63, dated February 17, 2011, of clause 8.3.2.2 of C63.4-2009 about the interpretation of "keeping th source of emission in the cone of radiation" it is unclear how the validation of the test site is to be performed and how the approach of absorber coverage suggested in ANSI C63.4-2009 clause 5. is to be implemented. The explanation states that tilting of the antenna is required during the measurement process and a planar scan is not acceptable. ANSI C63.4-2009 states in clause 5.5 that a site is deemed suitable for measurements above 1 GHz if meets the SVSWR criterion called out in CISPR 10 1-4 (2007) or an area of 2.4m x2.4 m is covered w absorbers. The CISPR 16-1-4 based process only determines the SVSWR based on a planar orientation of the antennas. No tilting of the receiving antenna towards the ground is involved. is clear that tilting of the antenna downward towar the floor will illuminate the part of the test environment that may not be covered by absorbers Since the minimum absorber coverage is not specifically stated in CISPR 16-1-4 and only evidence of compliance with the acceptance criteri is to be provided, a test laboratory can determine it own way of covering the ground plane with absorbers to meet the SVSWR criterion. Tilting the receiving antenna, as required per explanation through the measurement process, introduces a tess cetup that has not been verified. Therefore, it canne	e none f f f f f f f f f f f f f f f f f f f	 There are no changes needed. As stated in C63.4-2009, section 5.5, there are two parts for site validation requirements above 1 GHz. Both of these shall be met. 1) Facilities suitable for measurements in the frequency range 30 MHz to 1000 MHz are considered suitable for the frequency range 1 GHz to 40 GHz. 2) SVSWR criteria as defined in CISPR 16-1-4:2007 or use of a 2.4m by 2.4m section of RF absorber is sufficient for determining suitability of a test site for the C63.4 emissions measurements above 1 GHz.

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				be assumed that the site meets the SVSWR criterion		
				which again is based on a planar orientation of the		
				antennas involved. During the measurement process		
				the tilting may therefore reflections from the floor		
				which may lead to erroneous measurement results,		
				based on the definition of the test environment in		
				CISPR 16-1-4. This in turn may lead to perceived		
				product failures which penalize manufacturers and		
				test houses.		
				The committee is asked to clearly define how the		
				SVSWR method is to be modified in order to be		
				applicable to antenna tilting. It is not technically		
				feasible to validate a test environment is a way that		
				differs significantly from the process applied during		
				EUT measurements.		
				The second acceptance criterion (absorber coverage		
				of 2.4m x 2.4 m between EUT and antenna) was		
				based on a planar antenna orientation only. Tilting of		
				the antenna will certainly require a larger absorber		
				coverage area. The committee is asked to provide an		
				update either on how the required absorber coverage		
				area is to be determined (which is based on the		
				pattern of the receiving antenna) or provide revised		
				information for the proper absorber coverage to		
				address the tilting of the receive antenna.		
				It is to be noted that a simple reference to future		
				revision of ANSI C63.4-2009 to address this matter		
				is unacceptable since users of ANSI C63.4-2009 do		
				have to apply the site validation (or setup) right now		
				and tilting is required during the measurement		
				process right now.		