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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®	Table 1 and Annex H			<p>(1) According to Table 1, there seems to be no method to be used for the calibration of hybrid antennas for NSA. But it says Annex H can be used for the GSCF measurements. Can hybrid antennas be used for NSA measurements? If so, what is the reference plane for the distance between Tx and Rx antennas?</p> <p>(2) In Annex H.3.2 it states 'Two identical antennas, i.e., of the same model, shall be used for broadband measurements.' Can two different antennas, e.g. a biconical antenna and a hybrid antenna, be used?</p>		<p>(1) C63.5-Table 1 does list 'Broadband Hybrid'. The column 'annex H' is marked for these antennas. That annex references the SSM and it is implied in the table.</p> <p>However, hybrid antennas shall not be used for NSA measurements when using ANSI C63.4-2009. See paragraph 3 of D.1 in ANSI C63.4-2009 for the allowed antenna types (shown below highlighted in red italic). These antennas are the biconical, LPDA and tunable dipole.</p> <p>See http://ets-lindgren.com/page/?i=WhitePaper-I0199 for a paper on uncertainties with hybrid antennas.</p> <p>(2) No, the term 'Two identical antennas' means that the antennas shall be the same model. Two different antennas cannot be used.</p>

paragraph 3 of clause D.1 in C63.4-2009

Table D.1 is used for *broadband antennas such as biconical and log-periodic dipole array antennas*. Table D.2 is for *tunable dipoles* (and broadband antennas for alternative test site qualification) aligned horizontally with respect to the reference ground plane. Finally, Table D.3 is for tunable dipoles, vertically aligned with respect to the reference ground plane. Note that in Table D.3, there are restrictions on the scan height h_2 . This takes into account the fact that the lowest tip of the receive dipole is kept 25 cm or more from the reference ground plane.