

Date 30 July 2010	Document C63.5-2006
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Rrequestor	Clause/ Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/Editorial)	COMMENTS	Proposed change	OBSERVATIONS OF ASC C63® on each comment submitted
	H.2.4	clause	General	<p>Clause H.2.4 states that a SACS shall not include a weather protected OATS.</p> <p>ANSI answered this imply that a semi-anechoic chamber cannot be used for the determination of the GSCF since it is a weather enclosed structure. It also does not meet clause H.2.5.</p> <p>Please give me the rational reason why the physical structure is required such as a weather enclosed structure as described in H.2, 1 to 7. OATS is already a relic of the past, which is underproductive and over which the broadband signals are flying. And semi-anechoic chambers are used for over 90% of tests in the market. Based on these facts, we think semi-anechoic chamber should be approved as a site appropriate to Annex H which achieves NSA requirement of +/- 2dB required in ANSI C63.5-2006 and complies with the requirement in clause H.4.</p>	Allow use of semi-anechoic chambers that meet annex requirements.	<p>Recommendation:</p> <p>Currently, OATS still remains the standard test site in our work. Semi-anechoic chambers do not meet requirements H.2.4 and H.2.5.</p> <p>Changes to this standards document are done through committee using a consensus vote. Details in this document are based on data and experience provided from committee members. Data to support suggestions are always welcome to the committee.</p>

From C63.5-2006:

H.2 SACS requirements

SACS used for geometric specific antenna calibrations shall comply with the guidelines in ANSI C63.7-2005. The site shall be void of buildings, electric lines, fences, trees, underground cable, pipelines, etc., except as required to perform the test. In addition, the reference SACS shall meet the following requirements:

- 1) The ground plane shall be of metal with no holes or gaps larger than 3 cm ($1/10 \lambda$ at 1000 MHz) in any dimension.
- 2) The ground plane shall be electrically continuous and shall be flat (e.g., unevenness: within ± 4 cm.) Any welds and joints in the ground plane should be staggered.
- 3) The ground plane shall be at least 20 m wide by 30 m long.
- 4) The SACS shall not include a weather protection enclosure.
- 5) There shall be no objects including standing trees within 10 m of every edge of the ground plane.
- 6) The measuring instrumentation shall be located under the ground plane or at least 20 m from every edge of the ground plane.
- 7) Temperature variance during measurements shall be less than 5°C between direct measurements. This includes all cables.

Relatively low ambient noise levels are recommended to achieve the recommended 16 dB signal-to-noise ratios. Lower site attenuation deviations from ideal are also recommended.