

Approved by General Counsel

TR-14 Meeting Report

Date(s): 02/08/2013 - 02/08/2013

Location: Virtual (conference call, web conference, etc.)

Approved: 04/19/2013



**Point to Point Communications Systems
Engineering Committee Report
Steering Non-Formulating Committee Meeting
For TR-14 (<http://www.tiaonline.org/all-standards/committees/tr-14>)**

Date: February 8, 2013 (Steering Committee Meeting)
February 13, 2013 (Second Call)

Location: Teleconference

Attendants: John Erichsen, PE, SE, Chair
Mark Malouf, PE, Vice-Chair
Bryan Lanier, PE, SE, Secretary
David Brinker, PE, SE, Editorial Committee
John Wahba, PhD, PE, Editorial Committee
Stephen Yeo, PE, Editorial Committee
Marianna Kramarikova, Manager, Technology & Standards

Meeting during this time commented on the following issues:

- Comments from Marianna Kramarikova included keeping the TR-14 a task group, which ensuring it remains a non-formulated meeting. Essentially, this simplifies the process of meeting. Minutes from these task group meetings will be uploaded to the FTP site (http://ftp.tiaonline.org/TR-14/TR-14_MAIN/), steering committee folder, will be approved by Marianna and eventually emailed to membership.
- Approval of subtask committees for upcoming TIA-222-H – Mark Malouf has been soliciting feedback / interest for various subcommittees and thus far has varying levels of interest from 12 individuals. Has also attended a number of committee meetings regarding changes in the engineering manual and is becoming comfortable regarding the formalizing process for the various subtask committees.
- Macro-level time frame of implementation / ratification of TIA-222-H – minimum 12 months for subtask committees to complete work, then 18 – 24 months to ratify, or 2 – 3 year total process. Continued discussion of what topics need to be either initially evaluated or re-evaluated in Revision H. Review of FAQ questions will shed light on additional topics that need continued codification / commentary.
- FAQ (Frequently Asked Questions) Review and Responsibility - General discussion regarding location of FAQ (<http://eetllc.info/TIA-222-GRFQFAQ/>), who will maintain and how it will be maintained. General instructions will be forwarded to all members of the committee to provide instruction for submitting questions to be addressed by the editorial committee. Other comments included



confirmation that FAQ's purpose is not to be a judge / arbiter and commentary provided will be providing interpretations for specific sections, not situations. Old standards will be not be re-evaluated / commented on.

- Link also provided below which sends requester directly to the question submittal website.

<http://eetllc.info/TIA-222-GRFQFAQ/index.php?sid=3974&lang=en&action=ask>

- Comments / Discussion regarding TIA-22-G.3 and G.4 task groups, specifically creating scopes for each group – Dave will provide additional draft / comments. After these changes are made, group will have to solicit changes from committee members for comments. Mark will also submit scope in line with current document and submit to Marianna.

FAQ Requests and Clarifications

- Request: I am currently working a telecommunications tower project where dead weight of concrete blocks will be used to resist uplift and sliding forces at the base of a truss tower. These blocks of concrete must be placed above the soil.

Provision 2.3.2 of TIA-222-G, Equation 2 shows the load combination of $.9D + 1.0 Dg + 1.6 W$. Since the dead load contributed by the concrete foundation and the steel tower above is the actual weight of concrete (not some assumed dead load used for the design of superstructure), is it necessary to reduce the dead load of the concrete footing by 10%? Is there an ASD load combination (where wind load is not multiplied by 1.6) that can be used to calculate the required counter weight?

Response: The loading combinations specified 2.3.2 requires the dead load factor to be applied to the weight of the substructure and weight of the soil directly above the foundation. Therefore, the 10% load reduction in weight would apply to ballast in combination with the wind load factor of 1.6. No ASD load combinations is specified in the standard.

<http://eetllc.info/TIA-222-GRFQFAQ/index.php?action=artikel&cat=3&id=116&artlang=en>

- Request: The definition of Z in sections 2.6.5.2, 2.6.6.4, and 2.6.8 is incorrect and completely different from the definition on Page 11. Please provide clarification.

Response: The definition of z within Sections 2.6.5.2, 2.6.6.4 and 2.6.8 provide further clarification to the general definition of z given in Section 2.6.2 Symbols and Notations.

<http://eetllc.info/TIA-222-GRFQFAQ/index.php?action=artikel&cat=3&id=121&artlang=en>

- Request: Is there a tolerance recommendation for base plate to monopole connections? If the base plate is not perfectly perpendicular to the monopole, then the pole is installed out of plumb until it



is plumbed up with leveling nuts. At this point the base plate is not level. What is the recommended tolerance for how out of level the base plate of a monopole can be?

Response: The TIA STANDARD does not provide tolerances for monopole base plates.

<http://eetllc.info/TIA-222-GRFQFAQ/index.php?action=artikel&cat=14&id=119&artlang=en>

- Request: In case of telecommunication tower to be built on an isolated hill where category 2 applies and no dwellings exist around or roads, can we take importance factor of class I or in between class I and class II.

Response: Topographic Categories and Structural Class are independent design factors. Refer to the appropriate Sections in the Standard including Annex A.2.2.

The Steering committee does not address site specific conditions.

<http://eetllc.info/TIA-222-GRFQFAQ/index.php?action=artikel&cat=3&id=118&artlang=en>

Final Points of Business

Follow-up on TR-14 documents

- TIA-222-G reaffirmed January 12, 2013, no further action needed
- TIA-222-G-1, (Addendum 1) reaffirmed January 12, 2013, no further action needed
- TIA-222-G-2, (Addendum 2) needs to be reaffirmed at the next TR-14 meeting Following documentation is needed:
 - Project initiation
 - Official ballot
 - Publication authorization form
- TIA-222-G reaffirmed January 12, 2013, no further action needed
- TIA-222-G-1, (Addendum 1) reaffirmed January 12, 2013, no further action needed

Project Status

- TIA-222-G-3: Project request submitted to TIA on March 29, 2011, committee approved ballot and took motion to submit TIA-222-G-3 for a TIA ballot and ANSI ballot. Next step is to release ballot authorization form, TIA would open ballot, comments would be received, TR-14 needs to have a quorum meeting to address comments, decide to go for another ballot, or decide to publish as is. TIA would need the publication authorization form and within 2-3 months would publish TIA-222-G-3
- TIA-222-G-4: Project request submitted to TIA on March 29, 2011, committee did not approve this document for a ballot. Next step is for committee to take a vote to open a ballot.
- TIA-222-H: Project request submitted to TIA October 29, 2012. Next step is to take a vote to open a ballot.