785200 ITS – Infrastructure
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (7-13-11)
(Ref - Section 785-2.3.3, "Ground Resistance Testing and Certification")

- Suggest item "5", be modified to require the name of the company or entity the (signed) individual(s) conducting the tests represents as below.

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5. The names, signatures and consulting/contracting firm name each (signature) represents for the personnel conducting, witnessing, and certifying the test (see image).

- In reference to this section I suggest the requirement for "legible entries" verbiage be added as a requirement for hand recorded information.

- Most certification labs now provide reference numbers for the individual pieces of equipment being certified. To expedite any need to verify the calibration certification should we ask to have the "cert number" be provided if available (ref - item 4)?

785-2.3.3 Ground Resistance Testing and Certification: Measure the ground resistance with an instrument designed specifically to measure and document earth/ground resistance, soil ~~resistance~~*resistivity*, and current flow. Conduct the test by using the Fall-of-Potential method. Provide the Engineer with written, *certified* test results for each testing location, *signed by all personnel conducting and witnessing the test. Provide the following information on the test results:* ~~. Include in the test results the instrument model and date of calibration for the device used in the testing, the local environmental conditions at the time of testing, and a full Fall-of-Potential graph. Certify and sign the test results submitted.~~

1. The formal name or ID for the location where the test was performed;
2. The GPS latitude and longitude for the location where the test was performed;
3. The date on which the test was performed;
4. The make and model number, serial number, and last date of calibration (by an independent testing facility within the previous 12 months) for the grounding resistance testing device used;
5. The names and signatures of personnel conducting, witnessing, and certifying the test;
6. The local environmental and soil conditions at the time of testing;
7. A rough sketch of the site grounding system;
A full Fall-of-Potential graph, along with the corresponding measured data points; and
8. Page numbering showing the current page number and total page count (e.g., Page 1 of 3).

Response:

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Eddy Scott
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Comments: (7-14-11)
Suggest changing 785-2.3.3 by removing "signed by all personnel conducting and witnessing the test." This is already stated in under number 5 below.

Response:

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Clifton Harper
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Comments: (7-26-11)
785-2.1 UL1008, Standard for Safety for Transfer Switch,.....Should this be..... UL1008, Standard for safety of Transfer Switch...

Response:

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Ken Zinck
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Comments: (7-28-11)
Comments by D5 Construction and D5 Traffic Operations:<<>> 1)Is there going to be a standard form to provide the test results?<<>> 2)The “intent” was to have the personnel conducting the test (which would normally be the contractor) and the witness (which would normally be the CEI) sign the test results.<<>>The wording “signed by all personnel conducting and witnessing the test.” should probably be changed to remove the word “all”.

Response:

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Chester H. Chandler III, P.E.
District ITS Program Manager
FDOT District Seven
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Comments: (7-28-11)
This E-mail replies to your July 5, 2011 memorandum (attached) requesting commentary on the subject proposed specification.

The FDOT District Seven ITS office concurs with all of the revisions in the proposed specification.

In addition, we request that the word “full” be inserted at 785-2.3.3, line 3, in front of the word “Fall-of-Potential” such that the entire sentence reads: ”Conduct the test by using the full Fall-of-Potential method.” In item 7. below in this subarticle, a full Fall-of-Potential graph is required, this requires that a full Fall-of-Potential test be conducted to produce such a graph. See Megger’s *Getting Down to Earth* publication (PDF available via the Web), page 19, for additional discussion on types of Fall-of-Potential tests.

Please let me know if you have questions about this reply.

Response:

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