

P1720

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Type of Project: New IEEE Standard

PAR Request Date: 02-Mar-2007

PAR Approval Date: 07-May-2007

PAR Expiration Date: 31-Dec-2012

Status: PAR for a New IEEE Standard

Project Record: P1720

1.1 Project Number: P1720

1.2 Type of Document: Recommended Practice

1.3 Life Cycle: Full Use

2.1 Title: Recommended Practice for Near-Field Antenna Measurements

3.1 Working Group: Near-Field Antenna Measurements (APS/A/NFAM)

Contact Information for Working Group Chair

Name: Michael Francis

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Antennas and Propagation Society/Antennas (APS/A)

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 09/2010

4.3 Projected Completion Date for Submittal to RevCom: 02/2011

5.1 Approximate number of people expected to be actively involved in the development of this project: 20

5.2 Scope: This document describes recommended near-field test practices for the measurement of antenna properties. It provides information on developments in near-field measurements that have occurred since the approval of IEEE Std 149-1979 (IEEE Standard Test Procedures for Antennas). This document recommends near-field measurement practices for the three principal geometries: cylindrical, planar, and spherical, and also recommends measurement practices for the calibration of probes used as reference antennas in near-field measurements.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: The purpose of this recommended practice document is to provide practical guidance to those who are planning to do near-field measurements. This document also specifies capabilities required of a near-field measurement system.

5.5 Need for the Project: Near-field antenna measurements have become one of the two predominant methods of characterizing satellite borne antennas (prior to their launch). This method is frequently used in characterizing high performance radar antennas and becoming more common in use for characterizing PCS antennas. There is widespread use of the near-field measurement methods, but there exists limited coverage of the topic. This PAR will address these technical needs as identified by industry and academia.

5.6 Stakeholders for the Standard: The stakeholders include manufacturers of near-field antenna measurement systems, users of near-field antenna measurement systems (especially in the telecommunications, aerospace and defense industries, and government and academic laboratories).

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation):
