

P1502

Submitter Email: vikass.monebhurrun@supelec.fr

Type of Project: Revision to IEEE Standard 1502-2007

PAR Request Date: 16-Oct-2015

PAR Approval Date: 05-Dec-2015

PAR Expiration Date: 31-Dec-2019

Status: PAR for a Revision to an existing IEEE Standard

Root Project: 1502-2007

1.1 Project Number: P1502

1.2 Type of Document: Recommended Practice

1.3 Life Cycle: Full Use

2.1 Title: Recommended Practice for Radar Cross-Section Test Procedures

Changes in title: ~~IEEE~~ Recommended Practice for Radar Cross-Section Test Procedures

3.1 Working Group: Radar Cross Section Measurements (APS/A/P1502_WG)

Contact Information for Working Group Chair

Name: Eric Mokole

Email Address: eric.mokole@outlook.com

Phone: 7036442579

Contact Information for Working Group Vice-Chair

None

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

Contact Information for Sponsor Chair

Name: Vikass Monebhurrun

Email Address: vikass.monebhurrun@supelec.fr

Phone: +33169851544

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: 12/2016

4.3 Projected Completion Date for Submittal to RevCom: 10/2017

5.1 Approximate number of people expected to be actively involved in the development of this project: 10

5.2 Scope: This recommended practice establishes processes for the measurement of the electromagnetic scattering from objects. It is written for the personnel responsible for the operation of test ranges, and not for the design of such ranges. It recommends procedures for testing and documenting the quality of the measurement system, for calibrating the measurement system, for carrying out the radar scattering measurements, and for delivering the measurement data in a useful format to the end user.

The document defines radar cross section (RCS), describes different types of test ranges, and reviews methods of characterizing and operating radar scattering measurement ranges. Issues related to test object support systems, types of test ranges, instrumentation, signal polarization, calibration, data analysis, and range uncertainty are also discussed.

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

5.4 Purpose: Most radar scattering measurement ranges are built for a specific localized purpose. Methods of characterizing the ranges and performing the measurements are developed for the specific needs of each particular test range. This recommended practice is intended to establish guidelines so that operators and users of such ranges can provide results that are useful across the larger community of users.

5.5 Need for the Project: This standard was last revised in 2007, and a periodic review and update are necessary to ensure the relevancy and accuracy of test-range data.

5.6 Stakeholders for the Standard: Industry, academia, engineers. Users include radar system designers, developers, and practitioners.

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):