Guide for Measurements of Electromagnetic Properties of Earth Media

Changes in title: Guide for Measurements of Electromagnetic Properties of Earth Media

Earth Media Properties Measurements (APS/SC/WG_356)

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None

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None

Type of Ballot: Individual
Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2019
Projected Completion Date for Submittal to RevCom: 10/2020
Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.

Approximate number of people expected to be actively involved in the development of this project: 10
Scope: The scope of the project is to cover measurements of the electrical properties of naturally occurring solids. Not covered are methods that rely on mapping earth structure anomalies unless directly related to electrical properties. There is limited coverage of numerical methods for forward/inverse modeling.

Is the completion of this standard dependent upon the completion of another standard: No
Purpose: This document is needed for ground plane assessment for locating antennas; formation mapping to obtain geological information; assessment of ore-grade quality, moisture content, salinity; propagation prediction and studies; aquifer studies for water search, nuclear waste disposal, dam location; ground-penetrating radar research; prospecting.

Need for the Project: Some additional material will be added and some changes are required to clarify existing information.

Stakeholders for the Standard: The stakeholders are antenna and propagation engineers, geophysics community, through-earth communications people.

Intellectual Property
Is the Sponsor aware of any copyright permissions needed for this project?: No
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: