P1260

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Type of Project: Revision to IEEE Standard 1260-1996
PAR Request Date: 26-Jul-2017
PAR Approval Date: 28-Sep-2017
PAR Expiration Date: 31-Dec-2021
Status: PAR for a Revision to an existing IEEE Standard
Root Project: 1260-1996

1.1 Project Number: P1260
1.2 Type of Document: Guide
1.3 Life Cycle: Full Use

2.1 Title: Guide on the Prediction, Measurement, and Analysis of AM Broadcast Reradiation by Power Lines

3.1 Working Group: Corona and Field Effects (PE/T&D/TPC-Corona)
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3.2 Sponsoring Society and Committee: IEEE Power and Energy Society/Transmission and Distribution (PE/T&D)
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4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 08/2018
4.3 Projected Completion Date for Submittal to RevCom
Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 02/2019

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

While the procedures listed in this guide may be applicable to reradiation problems from other medium frequency (MF) sources, such as navigation beacons, they are not intended to be applied to reradiation problems from higher frequency sources, such as television broadcast signals. This guide is not designed to be applied as legal evidence of harmful effects of a reradiating structure upon an AM broadcasting station.

In some jurisdictions, the government regulatory or licensing authority has defined specific procedures for the determination of radiation patterns of medium wave antenna systems. Some of these procedures...
are also contained in international treaties and agreements, and as such are binding on the licensees of the signatory jurisdictions. When there is agreement between the party or parties who are licensed to operate the medium wave antenna system(s) in question and the parties proposing construction of potential reradiating structures, the procedures of the responsible government agency or authority shall have precedence over the method outlined in this guide.

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

5.4 Purpose: An AM broadcast array is carefully constructed to radiate strongly towards listeners and weakly in directions where interference to other stations could result. Reradiation can occur when the broadcasted signals are parasitically picked up by a large metallic structure and then rebroadcasted, or reradiated, from that structure. This can result in a decrease in signal towards listening areas and an increase in signal in protected directions. The process of predicting, measuring, and analyzing the interference is complex and nontrivial, and is why this guide was developed. It is anticipated that this guide will be used by owners of potentially reradiating structures, and radio stations.

5.5 Need for the Project: Transmission lines can pick up AM broadcast signals and reradiate them, distorting the delivery pattern of the station. The process of predicting, measuring, and analyzing the interference is complex, and is why this guide was developed. It is now being revised since it hasn’t been since 1996.

5.6 Stakeholders for the Standard: Utilities, AM radio operators, consultants

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: The document has not been revised since 1996 and there are typographical errors that need resolved. Additionally, we’ll add some discussion on some newer procedures as well as improve the formatting for easier reading and understanding the document.