

IEEE-SA Standards Board Project Authorization Request (PAR) Form (2000-Rev 1)

Note: For use with help hyperlinks offline, download [guide.html](#) and [par2000.html](#) into the same directory. After completing this form, please e-mail it to the [NesCom Secretary](#).

[Instructions for Downloading the PAR Form](#)

**1. Sponsor Date
of Request**
[2000 May 04]

**2. Assigned Project
Number**
[P511]

**3. PAR Approval
Date**
21 June 2000

Copyright release must be submitted with [appropriate signatures](#) by FAX (1-732-562-1571)

[X] PAR Signature Page on File {IEEE Staff to check box}

4. Project Title, Recorder and Working Group/Sponsor for this Project

Document type and title: {Place an X in only one option below}

- **Standard for**{document stressing the verb "shall"}
- **Recommended Practice for**{document stressing the verb "should"}
- **Guide for** {document in which good practices are suggested}

Title: [\[Standard on Video Signal Transmission Measurement of Linear Waveform Distortion\]](#)

Name of Working Group (WG): [\[G2.1.4 Video Distribution Measurements Subcommittee\]](#)

Name of Official Reporter (usually the WG Chair) who must be [\[Rick Redford
IEEE # 07310329\]](#)
an SA member as well as an IEEE/Affiliate Member:

IEEE-Standards Staff has verified that the Official Reporter
(or Working Group Chair) is an IEEE and an IEEE-SA member: (Staff to check box)

Contact Information:

Telephone [\[212-456-4450\]](#) FAX: [\[212-456-4451\]](#)

E-mail: [\[rick.redford@juno.com\]](mailto:rick.redford@juno.com)

Name of Working Group Chair (if different than Reporter): [...]

IEEE-Standards Staff has verified that the Working Group Chair is an IEEE and an IEEE-SA member: [...] (Staff to check box)

Contact Information:

Telephone [...] FAX: [...]

E-mail: [...]

Name of Sponsoring Society and Committee: [[Broadcast Technology/Audio/Video Techniques Committee, G-2.1](#)]

Name of Committee Sponsor Chair: [[Alan S. Godber](#)
IEEE# 03360468]

IEEE-Standards Staff has verified that the Sponsor is an IEEE and an IEEE-SA member: [...] (Staff to check box)

Contact Information:

Telephone [[732-846-4476](#)] FAX: [[732-846-4476](#)]

E-mail: [agodber@idt.net]

5. Type of Project

a. **Is this an update to an existing PAR?** [Yes/[NO](#)]

If YES, indicate PAR Number/Approval Date [P####-YEAR]

If YES, is this project in ballot now? [yes/no]

[Indicate changes/rationale for revised PAR in Item #16. This should be no more than 5 lines.]

b. **Choose one from the following:**

[...] New Standard

[] Revision of [existing-a withdrawn](#) Standard {number and year} [[Std 511-1979](#)]

[...] Amendment (Supplement) to an existing standard {number and year} [...]

[...] Corrigenda to an existing standard {number and year} [...]

6. Life Cycle

Full Use (5-year life cycle)

[...] Trial Use (2-year life cycle)

7. Balloting Information

Choose one from the following:

[...] Individual Sponsor Balloting

[...] Entity Sponsor Balloting

Mixed Balloting (combination of Individual and Entity Sponsor Balloting)

Expected Date of Submission for Initial Sponsor Ballot: [\[April, 2001\]](#)

8. Fill in Projected Completion Date for Submittal to RevCom [\[April, 2001\]](#)

9. Scope of Proposed Project:

[The scope of the original STD 511 is for the rapid interpretation of linear (amplitude independent) distortions caused by non ideal (imperfect frequency response and group delay) transmission of primarily, but not limited to, analog composite NTSC (system M) video signals. The results are useful to qualify signals to established proof-of-performance limits and are useful to indicate problems during operational and maintenance tests. Even with the more frequent conversion to digital component form, these measurements may, at least in part, be still valid when the video components are represented as digital data. In particular some of the digital/analog conversion and digital signal processing anomalies manifest themselves as the same linear distortions targeted by this measurement standard. Therefore, the scope of the proposed project is to amend STD 511's scope and related language within the document to more clearly and specifically ~~However, the scope needs to be increased to more clearly and specifically~~ cover the affects of analog/digital composite/component video processing on these linear measurements and to include component as well as composite NTSC video.

]

10. Purpose of Proposed Project:

[Although many video signals today are represented as component digital data from content to final production, distribution is still largely analog composite NTSC. NTSC is not expected to

be completely replaced as a video distribution format for at least the next 15 years and will likely exist as an interface format for some time after that. The standard has served well in the largely analog video content of the past but with the many current and future conversions from compressed, component digital video to composite analog NTSC form, certain minor revisions are necessary to avoid ambiguities in test signal definition and interpretation of results caused by the constraints and non-linear effects of the component digital signal formats and composite conversion.

The purpose is to revise and update the STD 511 linear waveform distortion measurement standard in use today to test conformance of composite NTSC and component linear-signal distortion to established performance limits. As an example, the committee may find it desirable to add a reference to international recommendation ITU-R BT.1204 with regard to the addition of dither for measuring linear distortions on analog/digital video processing.
]

11. Intellectual Property {Answer each of the questions below}

Are you aware of any **patents** relevant to this project?

[No] {Yes, with detailed explanation below / No}
[...] {Explanation}

Are you aware of any **copyrights** relevant to this project?

[No] {Yes, with detailed explanation below / No}
[...] {Explanation}

Are you aware of any **trademarks** relevant to this project?

[No] {Yes, with detailed explanation below / No}
[...] {Explanation}

Are you aware of any **registration** of objects or numbers relevant to this project?

[No] {Yes, with detailed explanation below / No}
[...] {Explanation}

12. Are you aware of any other standards or projects with a **similar scope**?

[No] {Yes, with detailed explanation below / No}
[...] {Explanation}

13. **International** Harmonization

Is this standard planned for adoption by another international organization?

[Yes] {Yes/No/?? if you don't know at this time}
If Yes: Which International Organization [EBU]
If Yes: Include coordination in question 13 below
If No: Explanation [...]

14. Is this project intended to focus on health, safety or environmental issues?

[No] {Yes/No/?? if you don't know at this time}
If Yes: Explanation [...]

15. Proposed Coordination/Recommended Method of Coordination

Mandatory Coordination

SCC 10 (IEEE Dictionary)	by DR {Circulation of DR afts}
IEEE Staff Editorial Review by	by DR
SCC 14 (Quantities, Units and Letter symbols)	by DR

Coordination requested by Sponsor:

[David Wood of the EBU] by [DR] {circulation of **DR**afts/**LI**aision memb/**CO**mmon memb}

[.....] by [...] {circulation of **DR**afts/**LI**aision memb/**CO**mmon memb}

[.....] by [...] {circulation of **DR**afts/**LI**aision memb/**CO**mmon memb}

[.....] by [...] {circulation of **DR**afts/**LI**aision memb/**CO**mmon memb}

Coordination Requested by Others:

[...] {added by staff}

16. Additional Explanation Notes: {Item Number and Explanation}

[...]{If necessary, these can be continued on additional pages}

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