



Producers Media Technical Evaluation Form

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| SERIES: | | |
| Title: | | |
| Episode Title: | | |
| Episode Number: | | Producer: |
| Media Inventory # | Program Code: | Feed Date: |
| Program Start: TC ___ Hrs ___ Min ___ Sec ___ Frms | Program End: TC ___ Hrs ___ Min ___ Sec ___ Frms | Program Duration: TC ___ Hrs ___ Min ___ Sec ___ Frms |
| Audio: [] Stereo [] DVI [] 5.1 Surround [] 2 nd language: _____ | Closed Captions: [] 608 [] 708 [] Secondary CC: _____ | Format: [] HD 1080i [] SD 480i 4:3 [] SD 480i 16:9 [] SD 480i Letterbox |

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|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video: 1. _____ Video Image Quality 2. _____ Video Levels 3. _____ Color Gamut 4. _____ Field and Frame Rate | Audio: 5. _____ Program Reference Level 6. _____ Average / Peak Level and Ratio 7. _____ Dialog Level/DialNorm Level 8. _____ Audio Quality 9. _____ Phase & Synchronization |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Audio Channel / Track Assignments

Track 1 _____ Track 2 _____ Track 3 _____ Track 4 _____
 5.1 _____ 5.1+2 (LT/RT Total, DVI or 2nd language) _____

Time Code

_____ Continuous Drop Frame Time Code _____ LTC _____ VITC

Leader and Trailer

_____ Reference Bars & Tone _____ Slate & Countdown _____ Run-out

| |
|--------------------------------------------|
| Comments |
| Technical Evaluation by: _____ Date: _____ |

NETA Guide to the Media Technical Evaluation Form for Producers

All program submissions to NETA are required to meet the quality and operating specifications as set forth in the PBS Technical Operating Standard (TOS-1.) The evaluation form is a standardized format to promote adherence to the TOS. TOS-1.5.2.3 requires that all programs be evaluated by the program producer, that this form be completed indicating TOS compliance, and that this form should be included with media submitted to NETA for distribution.

This evaluation is to be performed by a qualified technician using professional measurement equipment as necessary to verify compliance.

The following is intended as a guide in completing this form.

- **Series, Title, Episode Title, Episode Number, Producer and Program Code** are to be completed and indicated as in TOS-1.5.2.4. These fields, where applicable, must match exactly the media label and its container label as well as the Orion database entries.
- **Program Start:** This field contains the defined program start (first video and audio) of the program entered as the drop frame time code value on the tape. (TOS-1.5.3.5 and the PBS Red Book content specification.)
- **Program End:** This field contains the defined program end (final video and audio) of the program entered as the drop frame time code value on the tape. (TOS-1.5.3.5 and the PBS Red Book content specification.)
- **Program Duration:** This field contains the defined program's total running time, in hours, minutes, seconds, and frames. This time should be equal to the Program End Time less the Program Start Time (TOS-1.5.3.5 and the PBS Red Book content specification.)
- **Audio:** Audio content (stereo, 5.1 surround, DVS and SAP) are to be completed, indicating the content on the tape. Content must conform to the TOC-1.3.4 Audio Channel/Track Assignments and also be indicated in the Audio Channel/Track Assignments section of the form.
- **Closed Captions:** The presence of captioning and format are outlined in TOS-1.4.3 is to be indicated. Secondary captions (e.g., Spanish on CC3) should be noted if also present.
- **Format:** Video format is to be indicated as described in TOS-1.2.3.
- **Video and Audio:** Sections 1-10 are to be completed indicating a Pass/Fail compliance with the applicable TOS sections as referenced here. Items inconsistent with the TOS must be noted in the "Comments" section.
 - **1. Video Image Quality** – TOS-1.2.1
Resolution, widescreen, HD, aliasing, compression artifacts, archival material
 - **2. Video Levels** - TOS 1.2.2 Black luminance, white luminance, peak levels
 - **3. Color Gamut** -- TOS 1.2.2 Color gamut for encoded NTSC
 - **4. Field and Frame Rate:** TOS-1.2.4 (Field/Frame of 59.97/29.97)
 - **5. Program Reference Level:** TOX-1.3.1.1 (Reference tone of -20 dBFS¹).

- **6. Average / Peak Level and Ratio:** TOS-1.3.1.2 & 3 (Loudness between -26 and -24 LKFS², peak audio maximum of -10 or -3 dBFS for SD or HD, respectively.)
 - **7. Dialog Level / DialNorm Value:** TOS-1.3.1.4 (Dialog level of -24 dBFS +/-2 dB. If Dolby E, the DialNorm metadata must be -24, equal to the measured Dialog Level.)
 - **8. Audio Quality:** TOS-1.3.2 (Audio distortion, clipping and noise)
 - **9. Phase and Synchronization:** TOS-1.3.3 (audio phase and lip sync)
- **Audio Channel/Track Assignments:** Information detailing the audio channel and track assignments is entered, following the allowed configurations in TOS-1.3.4. Indicate here if the tracks are mono (monaural), ST-L, ST-R (stereo left and right, respectively), DVS (descriptive video) or a second language. If the submission is High Definition and 5.1 Surround, then tracks 3 and 4 should indicate Dolby E and whether it is 5.1 or 5.1+2 channels.
 - **Time Code:** Confirmation that matching drop frame time code is present as both LTC and VITC as specified in TOS-1.4.2
 - **Leader and Trailer**
 - **Reference Bars and Tone:** Confirmation that reference level bars and tone exist as specified in TOS-1.6.3.1
 - **Slate and Countdown:** Confirmation that the program slate and countdown to first video conform in timing, content and format as specified in TOS-1.6.3.2 and 1-6.3.4
 - **Run Out:** Confirmation that run out occurs in black and silent for 30 seconds as specified in TOS-1.6.3.6
 - **Comments:** Any item requiring special handling or found to be inconsistent with the TOS must be noted. If uncorrectable exceptions or inconsistencies with the TOS are present, the producer is strongly advised to contact NETA's director of operations, Greg Tillou immediately.
Email: gtillou@netaonline.org / Phone: 803-978-1574
 - **Technical Evaluation By:** The name of the person performing the evaluation should be printed legibly in this space, followed by the date of the evaluation. If needed, also identify the VTR, edit bay or other equipment used in the evaluation process for reference.

The PBS TOS is available from NETAOnline, in the Producer Information section.

The PBS Red Book is available online from PBS: <http://www.pbs.org/producing/red-book/>

dBFS¹ - Decibels, relative to full scale measures decibel amplitude levels in digital systems such as pulse-code modulation (PCM) which have a defined maximum available peak level.

LKFS² Loudness units, K-weighted relative to full scale is a loudness standard designed to enable normalization of **audio** levels for delivery of broadcast TV