

PREPARED FOR CLIENT NAME REMOVED · DELIVERY TO NETA FILE SUBMISSION
REQUIREMENTS (2025)

Half-hour nature series

Sample report — every value is from a real 2026 delivery; the programme, company and file names and the quoted caption text are removed

CLIENT Client name removed	SPECIFICATION NETA File Submission Requirements (2025)	DATE 19 September 2026
MASTER programme.mxf · 10.1 GB · MD5 shown in full in real reports		
CAPTIONS programme.scc · 91 KB · MD5 shown in full in real reports		



CLEARED FOR AIR · QC STATUS: APPROVED

58 of 58 items verified · 0 outstanding
programme.mxf · 19 September 2026

How to read this report. Each row sets the value measured in the file against the value required.

Pass — meets the requirement.

FYI — for information; no effect on compliance.

Grade 1 — minor, against a captioning convention; fixing is advised, not required.

Grade 2 · Warning — borderline, or outside an engineering guideline (such as the PBS TOS) rather than a published requirement; fixing is recommended.

Grade 3 · Fail — does not meet the distributor’s published requirement; must be fixed before delivery.

Grades follow the 1–3 scale common in broadcast QC reports.

Video

REQUIREMENT	EXPECTED	MEASURED	STATUS
Codec	MPEG-2	MPEG-2	✓ Pass
Resolution	1920 × 1080	1920 × 1080	✓ Pass
Field order	Upper field first (TFF)	Upper field first (TFF)	✓ Pass

REQUIREMENT	EXPECTED	MEASURED	STATUS
Frame rate	29.97 fps	29.97 fps	✓ Pass
Bit rate	50 Mb/s	50 Mb/s	✓ Pass
Colour range	Limited (TV) range	Limited (TV) range	✓ Pass
Colour matrix	BT.709	BT.709	✓ Pass
Colour primaries	BT.709	BT.709	✓ Pass
Transfer characteristics	BT.709	BT.709	✓ Pass
Chroma subsampling	4:2:2 (NETA 2025)	4:2:2	✓ Pass
Aspect ratio	16:9, full-height active picture	16:9, square pixels (1920 × 1080)	✓ Pass
GOP structure	Long GOP (NETA 2025)	Long GOP, I-frame every 15 frames, in the first 60 frames	✓ Pass

Image artefacts — encode integrity

REQUIREMENT	EXPECTED	MEASURED	STATUS
Decode integrity	decodes cleanly end to end	0 decode errors	✓ Pass
Compression artefacts (blocking)	a flat metric; high values checked on the picture	median 1.733, p99 1.986, max 2.111; 320 frames above 2.0	FYI
Frozen and duplicated frames	no unintended freezes — holds on graphics are intended	28 freeze events (0.4–4.0 s); 68 frames identical to the previous one	FYI
Field order and combing	upper field first, no combing	60 s sample: 0 TFF / 0 BFF / 1798 progressive	✓ Pass
Field cadence	no stray repeated fields on moving pictures	60 s sample: no repeated fields on moving frames; 6 detections on held frames, where there is no motion to judge	✓ Pass

Photosensitivity – Ofcom GN2 / ITU-R BT.1702

REQUIREMENT	EXPECTED	MEASURED	STATUS
Luminance flash	≤ 3 flashes in any second, over 25% of the frame	worst 1-second window: 3	✓ Pass
Red flash	≤ 3 flashes in any second, over 25% of the frame (saturated red)	worst 1-second window: 3	✓ Pass

Audio

REQUIREMENT	EXPECTED	MEASURED	STATUS
Audio tracks	2	2	✓ Pass
Codec	PCM, 24-bit	PCM, 24-bit	✓ Pass
Sample rate	48 kHz	48 kHz	✓ Pass
Bit rate per channel	1,152 kb/s	1,152 kb/s	✓ Pass

Channel layout – 45 s window from 513 s

REQUIREMENT	EXPECTED	MEASURED	STATUS
Channels 1 and 2 carry programme	Yes	Yes	✓ Pass
Stereo image	Channels in phase (synthesis is checked by ear, below)	A real stereo image, in phase; L/R correlation 0.9736 over the 45 s window	✓ Pass

Wrapper and timecode

REQUIREMENT	EXPECTED	MEASURED	STATUS
Operational pattern	OP1a	OP1a	✓ Pass

REQUIREMENT	EXPECTED	MEASURED	STATUS
Start timecode	01:00:00;00 or 00:00:00;00 (NETA 2025)	01:00:00;00	✓ Pass
Drop-frame flag	Yes	Yes	✓ Pass
Leader	No slate, bars, tone or countdown: one frame of black, then the programme (NETA 2025)	None – programme picture	✓ Pass
Running time	No longer than 28:00 (distributor)	25:39;23	✓ Pass

First and last frame – NETA 2025

REQUIREMENT	EXPECTED	MEASURED	STATUS
First frame	Black (0 IRE)	Average 0.0 IRE; brightest 1% at 0.0 IRE	✓ Pass
Last frame	Black (0 IRE)	Average 0.0 IRE; brightest 1% at 0.0 IRE	✓ Pass
Audio over the first frame	silent under the black frame	peak -60.2 dBFS	✓ Pass
Audio over the last frame	silent under the black frame	peak -91.0 dBFS	✓ Pass

Video levels – every frame scanned (0–100 IRE = Y 16–235)

REQUIREMENT	EXPECTED	MEASURED	STATUS
Frames over 1% out of range	0	0 (0.0 s)	✓ Pass
Frames over 5% out of range	0	0 (0.0 s)	✓ Pass
Frames over 10% out of range	0	0 (0.0 s)	✓ Pass

REQUIREMENT	EXPECTED	MEASURED	STATUS
Frames over 50% out of range	0	0 (0.0 s)	✓ Pass
Worst frame	—	0.27%	FYI
Lowest / highest pixel value	—	-7.3 / 109.1 IRE (codes 0 / 255)	FYI

RGB gamut and black level

REQUIREMENT	EXPECTED	MEASURED	STATUS
RGB gamut	GBR held to 0–700 mV (PBS TOS §3.4.1), EBU R103 tolerance	151 frames sampled every 10 s: median 0.05% of pixels outside 0–700 mV (mean 0.40%); every frame within the EBU R103 tolerance (worst 0.13% of the picture)	✓ Pass
Black level	Black at 0 V, no setup (PBS TOS §3.4.3)	No setup: head and tail black at code 16.0 / 16.0 (16 = 0 mV)	✓ Pass

Closed captions — embedded (SMPTE 436M ANC)

REQUIREMENT	EXPECTED	MEASURED	STATUS
Embedded caption track (ANC)	None: captions travel in the .scc sidecar	None	✓ Pass

Closed captions — sidecar .scc

REQUIREMENT	EXPECTED	MEASURED	STATUS
File name matches the video	programme.scc (NETA 2025)	programme.scc	✓ Pass
Lines over 32 characters	0 — the CEA-608 grid is 32 columns	conformant	✓ Pass
Lines on screen	1–3 lines, 2 preferred (NETA 2025)	1 or 2 lines throughout	✓ Pass

REQUIREMENT	EXPECTED	MEASURED	STATUS
Captions too short to read	none under 0.90 s on screen	none under 0.90 s; 153 between 0.90 and 1.50 s (convention)	Grade 1
Reading speed	convention, for reference	20 above 25 characters per second (convention)	Grade 1
Gap between captions	convention, for reference — not a NETA requirement	59 with no blank frame between them (convention)	Grade 1
Bytes with wrong parity	0 — CEA-608 requires odd parity	conformant	✓ Pass
Captions outside the programme	0 — all inside the programme	conformant	✓ Pass
Clear pulse (EDM) at the head	at the head of the programme (PBS TOS 8.6)	frame 12 of the programme	✓ Pass

Loudness, peaks and dialogue — ITU-R BS.1770, channels 1 and 2

REQUIREMENT	EXPECTED	MEASURED	STATUS
Integrated loudness	-24 LKFS $\pm$ 2	-24.0 LKFS	✓ Pass
True peak	$\leq$ -2 dBTP	-9.6 dBTP	✓ Pass
Peak programme level	-12 to -8 dBFS, nominal -10 (NETA 2025)	Sample peak -9.6 dBFS	✓ Pass
Clipping	Free of clipping (NETA 2025); distortion is a listening check	No sample above -9.6 dBFS	✓ Pass
Average audio level	around -20 dBFS (NETA 2025, reference)	-27.2 dBFS RMS over the whole programme, quiet passages included	FYI

REQUIREMENT	EXPECTED	MEASURED	STATUS
Dialog level	Average dialogue at $-24 \text{ LKFS} \pm 2$ (NETA 2025)	-23.8 LKFS over the caption periods (speech located from the caption file); spread across six equal parts of the programme 1.2 LU	✓ Pass
Loudness range (LRA)	—	6.1 LU	FYI

Checked on the picture and by ear

REQUIREMENT	EXPECTED	MEASURED	STATUS
Lip sync	Audio may not lead or lag video by more than $\frac{1}{2}$ frame (NETA 2025)	In sync with the producer's original programme file (measured 12 Sep 2026)	✓ Pass
Audio distortion	Free of distortion (NETA 2025) — by ear; clipping is measured above	Confirmed by the editor, who mixed the programme	✓ Pass
No stereo synthesis	Stereo synthesizing is not allowed (NETA 2025) — confirmed from the mix; correlation cannot prove it	Confirmed by the editor, who mixed the programme	✓ Pass
Caption timing	Within ± 1 second of the spoken word (NETA 2025)	521 of 647 captions matched a machine transcript within 1 s; the rest checked by ear	✓ Pass

REQUIREMENT	EXPECTED	MEASURED	STATUS
Caption placement	Clear of name keys, on-screen text, faces and important action (NETA 2025)	Checked in Premiere with the CEA-608 display, 18 Sep 2026: every caption flagged by the pre-check is clear of the partner logo, the quiz answers, the host's circle and the keyed animations; another animation passes behind one caption for under a second. On televisions that follow the standard CEA-608 grid, the first line sits 20-40 px higher and may touch the bottom edge of the quiz answers and the partner logo. Automatic pre-check: 647 captions, 29 of them raised above the bottom rows; positions follow the standard CEA-608 grid, where a television may draw them 20-60 px higher than an editing system's monitor; graphics in the edit: 8 graphics checked, 7 captions over one; 4 captions overlap in time with titles or templates whose area could not be measured; on-screen text and faces under the captions: 79 to check.	✓ Pass
Funding credits	Opening and closing credits as the distributor requires	At the top of the show and at the end	✓ Pass
Distributor tag	Present and complete as the distributor requires	NETA tag closes the programme, then the final black frame	✓ Pass
Rating icon	Inserted and placed as the distributor requires	TV-G, upper left, clear of other graphics	✓ Pass

Notes and recommended actions

This is the free audit: it tells you whether each item passes, and by how much. Where each issue is — timecode by timecode, caption by caption — comes with the paid audit.

How these figures were taken. Stream and signal analysis of the file itself: container and codec metadata, per-channel audio statistics, ITU-R BS.1770 loudness, frame-level video analysis and caption decoding. Loudness and true-peak measurement verified against the EBU Tech 3341/3342 test set (31 of 31 applicable cases). Expected values follow the distributor's published delivery requirements (NETA File Submission Requirements (2025)).

This report describes the file as received. It does not certify caption accuracy under 47 CFR §79.1, which rests with whoever authored the captions.

Technical evaluation by Cleared for Air with ClearedQC 2026.09 (NETA 2025 test plan) · 19 September 2026 · report CFA-20260919-SAMPLE

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