

Deviation Request Form (DRF)

Directions: The Initiator will complete Sections A through C. Additional continuation pages can be included if necessary.

Initiator	Sterling Hunt			Date	01/31/2022		
A. Requested deviation applies to (Technical Procedure – include specific section):							
Technical Procedure for Video Performance Verification							
B. Requested deviation:							
See attached.							
C. Necessity for the deviation:							
Verification notations are no longer needed to be made in of Forensic Advantage. Equipment used in case work can be tracked through the scientist's case notes.							
D. Technical review and Authorization (to be completed by the Quality Manager and/or Technical Leader)							
Comments(to include merits and impacts):							
No comments.							
Approved	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	Duration	1 Year	
Signature	Matthew A. Wood <small>Digitally signed by Matthew A. Wood DN: cn=US, ou=Digital Evidence, o=North Carolina State Crime Laboratory, CN=Matthew A. Wood, E=masawood@ncdaj.gov Reason: I am the author of this document Location: your signing location here Date: 2022.01.31 09:47:22-05'00' Post PhantomPDF Version: 10.1.6</small>			Date	1/31/2022		
E. Quality Assurance Authorization (to be completed by the Quality Manager, Forensic Scientist Manager or designee)							
Acceptable within general QA guidelines and good laboratory practice?				<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No	
Significant negative impact to Crime Laboratory Quality System?				<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No	
Restrictions/limitations:							
Effective 02/01/2022.							
<input checked="" type="checkbox"/>	Authorized	<input type="checkbox"/>	Rejected	Signature	Timothy G. Suggs <small>Digitally signed by Timothy G. Suggs DN: cn=Timothy G. Suggs, o=North Carolina State Crime Laboratory, ou=Quality Manager, email=tsuggs@ncdaj.gov, c=US Date: 2022.01.31 13:23:14 -05'00'</small>	Date 01/31/2022	

Scope - Change "The Video Performance Verification Procedure shall be used each day that analysis is conducted" to "The Video Performance Verification Procedure shall be used each day video is imported into the video analysis software. The steps performed in this process will be determined by the type of video to be analyzed."

Para. 4.0 - Add "Write-blocker"

Para. 5.1.1 - Change "Prior to copying a video, the test pattern video shall be copied using the same media type and equipment that will be used in the duplication of the evidence" to "Prior to performing video analysis, the test pattern video shall be recorded to ensure the software is functioning properly."

Para. 5.1.3 – Change "A notation shall be made in the log within the FA system to document the verification of the applicable equipment. In addition, a notation shall be made in the Forensic Scientist's case notes" to "A notation shall be made in the Forensic Scientist's case notes of a successful verification."

Para. 5.2.1.3 – Change "A notation shall be made in the log within the FA system to document the verification of the applicable equipment. In addition, a notation shall be made in the Forensic Scientist's case notes" to "A notation shall be made in the Forensic Scientist's case notes of a successful verification."

Para. 5.2.1.4 – Delete

Para. 5.2.2.2 – Change "Prior to capturing a digital video, the test pattern file shall be captured and imported using the same equipment and software that will be used in the examination of the evidence" to "Prior to performing video analysis, the test pattern video shall be recorded to ensure the software is functioning properly."

Para. 5.2.2.5 - Change "A notation shall be made in the log within the FA system to document the verification of the applicable equipment. In addition, a notation shall be made in the Forensic Scientist's case notes" to "A notation shall be made in the Forensic Scientist's case notes of a successful verification."

Para. 5.2.2.6 – Delete

Add Para. 5.2.3 – Header "Connections Test"

Add Para. 5.2.3.1 – "A connections test will be performed to ensure proper connectivity between computer components."

Add Para. 5.2.3.2 – "If a write-blocker is used (not required for read-only media), the connections test may be performed by copying the files from the evidence media to the analysis equipment. The original files shall be hashed prior to copying, and compared to the "working copy" hash values. If the hash values match, the connections test was successful."

Add Para. 5.2.3.3 - "A notation shall be made in the Forensic Scientist's case notes of a successful connection test."

Technical Procedure for Video Performance Verification

1.0 Purpose – The purpose of this procedure is to ensure that video duplication or analysis equipment is in working order.

2.0 Scope – This procedure describes the steps to be taken by personnel of the State Crime Laboratory to determine that video analysis/duplication equipment is in proper working order. The Video Performance Verification Procedure shall be used each day that analysis is conducted. Most electronic equipment performs a check of key components upon receiving power. Any malfunction of these components will typically prevent the equipment from operating. This check, in conjunction with the procedure below, ensures the equipment is working properly prior to use.

3.0 Definitions – N/A

4.0 Equipment, Materials and Reagents

- Avid Rackmount
- Avid Luggable
- Video Duplication
- Decoder
- StarWitness

5.0 Procedure

5.1 Video Duplication

5.1.1 Prior to copying a video, the test pattern video shall be copied using the same media type and equipment that will be used in the duplication of the evidence.

5.1.2 A section of the video a few seconds in length shall be copied and the copy examined to ensure that the color bars and test tone are the same on the copy as on the original video.

5.1.3 A notation shall be made in the log within the FA system to document the verification of the applicable equipment. In addition, a notation shall be made in the Forensic Scientist's case notes.

5.2 Video Analysis

5.2.1 Analog Video

5.2.1.1 Prior to digitizing a videotape, the test pattern videotape shall be digitized using the same video play deck that will be used in the examination of the evidence.

5.2.1.2 A section of the videotape a few seconds in length shall be digitized and the digital copy examined to ensure that the color bars and the test tone are the same on the digital copy as on the original videotape.

5.2.1.3 A notation shall be made in the log within the FA system to document the verification of the applicable equipment. In addition, a notation shall be made in the Forensic Scientist's case notes.

5.2.1.4 The digitized test pattern shall be added to the video which is produced to document the results of the examination.

5.2.2 Digital Video

5.2.2.1 A digital file copy of the color bar test pattern obtained from WRAL-TV was created for verification purposes.

5.2.2.2 Prior to capturing a digital video, the test pattern digital file shall be captured and imported using the same equipment and software that will be used in the examination of the evidence.

5.2.2.3 A section of the video a few seconds in length shall be captured and the captured copy examined to ensure that the color bars and the test tone are the same on the captured copy as on the original file.

5.2.2.4 Most digital video surveillance systems do not contain audio. The verification audio need not be captured if no audio is to be captured from the original evidence.

5.2.2.5 A notation shall be made in the log within the FA system to document the verification of the applicable equipment. In addition, a notation shall be made in the Forensic Scientist's case notes.

5.2.2.6 The captured test pattern shall be added to the video which is produced to document the results of the examination.

5.3 Standards and Controls – A color bar test pattern with test tone obtained from the engineering department at WRAL-TV. This video was converted to various types of video media (e.g., DVD, MiniDV, 8mm, etc.).

5.4 Calibrations - N/A

5.5 Maintenance – N/A

5.6 Sampling - N/A

5.7 Calculations - N/A

5.8 Uncertainty of Measurement - N/A

6.0 Limitations – N/A

7.0 Safety - N/A

8.0 References

- Digital Evidence Validation and Calibration Manual

9.0 Records - N/A

10.0 Attachments - N/A

Revision History		
Effective Date	Version Number	Reason
09/17/2012	1	Original Document
10/31/2013	2	Added issuing authority to header
08/29/2014	3	5.1.3 - Removed original statement regarding log sheet document and added FA notation statement 5.2.1.3 – Removed original statement regarding log sheet document and added FA notation statement; all subsequent formatting bullets were renumbered 5.2.2.5 – Removed original statement regarding log sheet document and added FA notation statement; all subsequent formatting bullets were renumbered
06/13/2018	4	Header - Updated Section and Changed Issuing Authority