Deadline of Submission of Comments: 27-Apr-20 Document Number: ASB Std 137 Document Title: ASB Standard 137, Standard for Examination and Documentation of Footwear and Tire Impression Evidence, First Edition

Note: a specific Proposed Resolution must accompany each comment or it cannot be considered.

#	Section	Type of Comment (E- Editorial, T-	Comments	Proposed Resolution	Final Resolution
6	Foreword	E	While no ACE-V process can ever or should ever be 100% linear, falling to treat each step of that process as a separate and distinct endeavor has provided serious errors in forensic science. For example, the Office of the Inspector General determined that one of the causes of the Brandom Mayfield misidentification in the latent print realm was the failure by examiners to fully separate and distinguish between analysis and comparison. Examiners there file prev to circular reasoning, let. they was det the comparison stage and features observed in the known for Mayfield to reason backwards and fill in blanks or ambiguithes in the latent print. The result: before exposure to Mayfield's known print the Reason backwards and fill in blanks or ambiguithes in the latent print. The result: before exposure to Mayfield's known print the Reasoning stage and features obtaining, but after known print of Mayfield to reason backwards and fill in blanks or ambiguithes in the latent print. The result: before exposure to Mayfield's known print the Reasoning stage of the stage and features of the more than the stage of the stage ending, and vice everal as well as adding of new features (an independent examiner after the fact, however, determined that 7 of the 9 added features were incorrect, as were all but one of the changes). The foreword to the standard, as currently written, acknowledges that processes may not be 100% linear by sugging some steps may not have clearly defined starting and ending points and that steps may need to be revisited at various times in the examination. But nowhere in the foreword or otherwise, does the standard grappe with defining the circumstances under which such revisiting might be appropriate or inappropriate. By falling to do so this standard does nothing to guard against the kind of circular reasoning that helped procede the Mayfield errors of certain circumstances warrant, for example, revisiting the compa	A section should be added to the standard indicating or at least broadly outlining the justifications for revisiting steps of the ACE-V process as well as documentation requirements clearly indicating that the examiner has gone backwards in said process, why they did so, and what new information or opinions, if any, that revisiting contributed to. language should also be added to indicate that records should be created contemporaneous with the examination of evidence and the technical review that, along with the forensic Science Service Provider quality management system documents relating to the forensic work performed, would allow another analyst or scientist, with proper training and experience, to understand and evaluate all the work performed and independently analyze and interpret the data and draw conclusions	Accept with Modification: Suggestions were addressed throughout this document (see sections: 41, 421, 431, 44.5, 46, 463) as this information is not appropriate for the foreword section.
1	2	E	Annex B is referenced, but there is not Annex B.	Change "Annex B" to "Annex A"	Accept
15	3.1 - 3.6		I would just double-check to make sure terms 3.1-3.6 are consistent among all our documents. tr />		Accept: Section 3 is applicable to this document only and these terms do not appear in other ASB Footwear and Tire CB documents. CB did double check for consistency.
7	4.1	E&T	This section includes language indicating that "The type of documentation (photographs, written, annotations, etc.) that is used to meet this standard may vary." On a technical note it appears, I would assume, that an unintentional comma has been added between the words written and annotations. On a more substantive note, this language threatens to create confusion and diminish best practices in terms of fully documenting the features (class and characteristics of use relied on by examiners. There is an avalanche of research from other ACE-V methods indicating that, not only are the ultimate conclusions of examiners subjective, but also their feature selection is a subjective and variable endeavor that is not without errors. Affected parties in the legal system (defense and otherwise) therefore deserve to know what features examiners are relying on to reach their determinations and to have those features documented in a fashion that is standard and robust. Some cours are even beginning to make such disclosures mandatory, for example Equeby (x-sfferd, 391, App. 34 212, 228 (LS). Dist. 2009) & North Carollina v. McPhaul, 908 S. E. 2d 394 (App. C. 2017). By inserting this language, however, Standard 137 gives examiners who wish to document their examinations without explicit notations regarding features relied upon an out. In that way it creates a conflict with some other portions of this standard as currently written, as I will suggest they should be amended in subsequent comments.	Change the current language to: "The type of documentation (photographs, written annotations, etc.) used to record the observations made during the examination process may vary as outlined throughout the remainder of this standard." Each section and subsection of the standard should hen outline precisely what kinds of documentation would be required to meet minimum thresholds of documentation and transparency. If rejecting this resolution as a whole and leaving the language as in, remove the superfluous comma between the words written and annotations.	Accept with modification: The first paragraph of Section 4.1 was updated.
16	4.2.1		4.2.1 - Is this for examination or inventory? Shouldn't all evidence be inventoried as soon as it is received? br />		Reject: This section is accurate as is.
18	4.2.2-D		4.2.2. d language seem stilted. Recommend: inventory of content and assignment of identifierscbr /> 		Accept
8	4.3.1		By acknowledging that the analysis of an unknown impression shall occur prior of the analysis of a known this standard appears to recognize the acknowledging that the analysis of an unknown impression shall occur prior of the analysis of a known this standard appears to recognize the acknowledge of the acknowledge o	The section should read: "An examiner shall conduct and fully document their analysis of an unknown footwear or tire impression prior to any exposure to or analysis of a known footwear or tire."	Accept with modification: Section 4.3.1 has been updated.
21	4.3.2 a	т	what does sample preparation mean	add a definition	Accept with modification: Example was added for clarity to section 4.3.2 -a.
3	4.3.2a)	т	What is meant by sample preparation? If this is refering to enhancement or lifting," b) examination quality photographs;" should be first to avoid confusion of order.	If sample preparation is meaning enhancement or lifting, photographing should be placed prior to avoid order confusion. If this is not the definition of sample preparation, then the term should be better defined.	Reject: Sample preparation does not refer to lifting or enhancement. Example was added for clarity to section 4.3.2- a.
19	4.3.2-е		Similar minor grammatical concerns with 4.3.2 e, f relative to the opening paragraph of this section br/>		Accept: Section 4.3.2 -e and f were revised for clarity.
22	4.3.2 e	Е	"determine suitability" would be more appropriate pharasing as the the entire process is the analysis	change analyze suitability to determine suitability.	Reject: Section 4.3.2- e was revised for clarity.
4	4.3.3a)	т	What is meant by sample preparation? If this is refering to test impressions," c) photographs of known footwear or tire;" should be first to avoid confusion of order.	If sample preparation is meaning test impressions, photographing should be placed prior to avoid order confusion. If this is not the definition of sample preparation, then the term should be better defined.	Accept with Modification: Section 4.3.3-a was revised for clarity.
5	4.3.3c)	T	This should include both general documentation and examination quality photographs. Examination quality photographs accurately document the outsole/tread of the known.	Include examination quality photographs.	Accept: See revised section 4.3.3-c.
					Accept with modification: Section 4.3.4 was updated to address factors of complexity.

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9	4.3.4	E	This section appears to conflict with sections 4.3.2 and 4.3.3. Specifically each of those two earlier sections, appropriately, makes annotations of class characteristics and characteristics of use mandatory. But 4.3.4 only requires such documentation "where applicable." If there are situations where such documentation would not be applicable (i.e. there were no suitable characteristics of use relied on) this section should specify those circumstances.	Section 4.3.4 should be removed. If it is retained it should not provide a way to avoid or justify not completing annotations of class characteristics and characteristics of use. It could therefore read: "Documentation of the analysis shall correspond to the complexity of the examination and shall include markings of all class characteristics and characteristics of use observed or relied upon by the examiner." (The bold and italics are for emphasis to reviewers of this comment.)	Accept with modification: Section $4.3.4$ was updated for clarity.
10	4.4.2	E	This section currently reads "If significant non-correspondence is observed during the comparison the examiner may move to the evaluation" This standard as written provides no standardized guidance to the examiner. The phrase "significant non-correspondence" should be denied.	Define "significant non-correspondence."	Accept with Modification: An example was added for clarity.
20	4.4.3		Section 4.4.3: Under what conditions might additional test impressions be needed. (I see the OSAC Statistical Task Group asking this eventually).		Accept with modification: The second sentence was revised for clarity.
11	4.4.4	E	This section admirably requires documentation of the choices made by examiners when creating test impressions. But it should go further and outline not just the matrix and substrate selected but the reasons why the examiner made those choices. Obviously there will be some variability in the matrixes and substrate selected by various examiners (unless some other standard with which I am unfamiliar lays out the explicit options and precisely when they should be chosen) and interested parties in the legal system deserve insight into rationale for examiner decisions in this area.	Section 4.4.4 should include as letter (d) the following language: "and the reasons the examiner selected the particular matrix and substrate utilized for a test impression."	Reject: This is outside of the scope of this document.
12	4.4.5	E	As mentioned above in my comments on Section 4.3.1, multiple organizations have recommended a shift not just to the way that examiners proceed through their examination (limiting exposure to a known) but also the way they document those examinations. Specifically, in the latent print field, multiple agencies recommend esplicit documentation of (1) flextures observed during analysis. (2) features observed only once an examiner has proceeded to the comparison phase, and (3) any others to feature mark ups caused by information gleaned during the comparison phase (ramy of these organizations also encourage assessments of confidence, i.e. documenting features in which the examiner is strongly confident as opposed to features the examiner believes, during analysis, may be present but is unsure of Linta might be a good addition to this section as well as sections 4.3 and 4.3.3. While Section 4.4 5 calls for documentation of dass characteristics and characteristics and the description of the section of the comparison phase they so und negotiar deviment that are assuminer indicate what features were observed or changed during that phase, in contrast to the many recommendations summarized in my comment to 4.3.1.	Section 4.4.5 should include a mandatory requirement that examiners clearly indicate any observations of the unknown or changes to prior observations of the unknown that occurred only after exposure to a known impression.	Reject with modification: Last paragraph added to section 4.4.5. "Inspection of the known can provide valuable information regarding the context of the questioned impression; therefore, contemporaneous documentation should reveal observations formed prior and post-examination of the known." The use of contemporaneous observations satisfies the need to document observations prior and post-examination of a known.
23	4.4.5 b	Т	quality and quantity is already documented in earlier	recommend removing this consider its to be documented at an earlier phase of the exam	Accept with modification: Section 4.4.5 -b was updated for clarity.
24	4.4.6	Т	marking of non-correspondence, I am not sure how this can be a done. Differences maybe a better term	change non-correspondance to differences	Reject: The definition for "difference" in the NIST/OSAC Lexicon is "A characteristic which demonstrates the particular known footwear or tire was not the source of the impression. "Difference should not be confused with Dissimilarity.
13	4.6.1	E	This section suffers from two major flaws: (1) it does not even acknowledge the value of blind verifications of lay out a process for such verifications, (2) it requires verification of only same source associations. The latter necessarily clues any verifier in to the conclusion reached by the initial examiner (if only same source associations are routinely verified because those are the only mandatory verifications) the examiners asked to perform a verification will know the conclusion reached by their peers. Moreover, this section wholly bypasses the movement towards blind verifications and provides no process for when such verifications should or should not occur. Even years ago, SWGFAST recommended that blind verifications occur "in cases involving an individualization, exclusion, or inconclusive of a person based on only a single latent print." The OLG, following the Mayfield emidientification recommended that other Fill adopted them in certain circumstances. And more recently the Houston Forensic Science Center has moved to blind verifications in all cases.	This section, in line with standards from other pattern matching fields that utilize ACE-V, should lay out the precise circumstances in which blind verifications are required or at least suggested (and given the success of labs like Houston there is no reason that should not be in all cases) (Moreover, to prevent cognitive bias and ensure that examiners do not know whether they are verifying a same source association, this standard should also require verification of all evaluation conclusions. Finally, this standard should specify that verifiers not be perited to know the identity of the examiner whose work they are verifying until after they have completed their examination. All these goals could be accomplished (if the drafters of the standard wished) by incorporating the idea of a case manager pursuant to NCFS's recommendations of dealing with task irrelevant information.	Accept with modification: "Examiners are encouraged to employ methods to minimize cognitive bias during the verification process." Was added to section 4.6.1
25	4.6.1	Т	"supports proposition of the same source". A clarification in regards to proposition of the same source would be helpful. Considering associations of class characteristics are technically a potential of being from the same source would these be subject to erification also?s is the intent of this classe of "intentifications in "intentifications in "intentifications" in "in	change language to either identification or positive associations, depending on the intent of the clause.	Reject: Terminology is valid as is.
14	4.6.2	E	This section sets unacceptably low standards for documentation by verifiers. The standard elsewhere indicates that all verifications must be "independent" but does not follow that requirement to its logical and necessary conclusions with regard to verification. If verifications are truly independent there is no reason or justification for requiring less documentation by verifiers than by initial examiners. Beyond that multiple cases require testimony by verifiers in order for forensic pattern matching evidence to be admissible and considered reliable, for example: State v. Langill. 13 A.3 d.171, 177 (kH. 2010) & People v. Cline, 2020 IL App (1st.) 172631 (2020). Defense attorneys and other interested parties hould be given a nount information about and transparency regarding the information relied on by the verifier as they are regarding the initial examiner to understand the conclusions reached and prepare for cross examination of that witness. Additionally, this minimal documentation requirement esentially eliminates even the possibility of conducting a glitind verification, which is deeply prohistic as outlined in previous comments. Finally, the standard in no way addresses the resolution process that should follow a disagreement between examiner and verifier (i.e. one examiner calls an identification and the verifier would only say inconclusive). A section should be deaded excircing how that process should proceed and requiring robust documentation of how any disagreement was resolved. In many cases this way well constitute Brady material that the prosecution must disclose to the Defense, and forensic scientists cannot undercut that vital constitutional protection by not documenting disagreements and resolution processes.	to the same extentlevel as would be required if they were performing an initial examination. This applies to their documentation of the	Accept with modification: See new sections 4.6.2 and 4.6.4 added to this document. Resolution process is up to the laboratory.
2	Annex A	E	The hyperlink to the SWGTREAD standards does not work.	Change current hyperlink to "http://treadforensics.com/index.php/standards/u-s/standards-swgtread"	Accept