

## VIRGINIA DIVISION OF CONSOLIDATED LABORATORY SERVICES (DCLS)

### NOTICE

#### TUNING FORK PROTOCOL UPDATE TO INCORPORATE KUSTOM SIGNALS, INC. EAGLE 3 ELECTRONIC TUNING FORK (ETF)

June 11, 2024

The Department of General Services (DGS) Division of Consolidated Laboratory Services (DCLS) administers the program for the certification of laboratories performing tuning fork certification testing on behalf of DGS Division of Purchases & Supply (DPS). DPS has statutory authority for the specification of traffic speed detection devices used by Virginia Police Chiefs, Sheriffs, and law enforcement authorities. Approved devices are listed by the United States Department of Transportation (DOT) National Highway Traffic Safety Administration (NHTSA) on their Conforming Product List (CPL) for Speed-Measuring Devices. <https://www.nhtsa.gov/document/conforming-product-list-cpl-speed-measuring-devices> DPS references the NHTSA CPL for its accepted devices.

The Kustom Signals Eagle 3 is approved on the CPL in Part 1: Down-the-Road Radar Speed-Measuring Devices. The NHTSA confirmation letter for CPL approval references testing by the Institute of Police Technology and Management (IPTM) in Jacksonville, FL. The IPTM has provided a certificate and detailed report of its testing, specifically describing the testing and approval of the ETF feature with comparison to the traditional or conventional tuning fork for routine Eagle 3 verifications. The IPTM certificate and report specify: (1) ETF performance demonstrated excellent accuracy and precision compared to traditional tuning forks and meeting the NHTSA model minimum requirements for variations less than 0.5% of the known value; (2) ETF performance demonstrated no variations from temperature extremes, thus addressing a day-to-day challenge associated with traditional tuning forks.

Kustom Signals provided the procedure for Eagle 3 Remote Control Certification, its Service Bulletin 1765 Rev A, which has been incorporated as Appendix A into the DCLS Protocol for the Certification of Laboratories Performing Certification of Tuning Forks, Document ID 2364 (hereafter, "Protocol 2364").

Protocol 2364 has been updated to expand Tuning Fork Certifications offered by DCLS in either/both of the following: (1) traditional, conventional, mechanical, self-resonating devices; (2) the Eagle 3 electronic tuning fork utilizing a crystal-based oscillator and a mixing diode to produce an electronic signal comparable to that of a traditional tuning fork. Refer to the [Tuning Fork Webpage](#) for the updated Protocol and related documents.

A currently certified tuning fork facility may request the addition of the Eagle 3 ETF to its scope of certifications. **A one-time change-in-scope fee of \$200 will be charged to cover the labor associated with this update and will be invoiced to the laboratory after receipt of the change-in-scope request.** The fee includes review of the requested change-in-scope information and a remote assessment during which the certified facility will use video conferencing to demonstrate the ETF certification procedure per the Kustom Signals Service Bulletin 1765 Rev A (Appendix A). If video conferencing is not available or is not satisfactory to the DCLS Certification Officer, the laboratory will be responsible for reasonable travel fees and associated labor at the rate of \$70/hour for an in-person assessment. DCLS

may opt to hold in-person assessments in lieu of remote assessments, at its own expense.

NOTE: A facility must have an Eagle 3 ETF (specifically, the remote control device) available on-site (may be owned or borrowed) to participate in a remote assessment of the certification procedure.

**To initiate a request for this change to scope of certification under the Tuning Fork program, send a written request to the laboratory's assigned certification officer or to [Lab\\_Cert@dgs.virginia.gov](mailto:Lab_Cert@dgs.virginia.gov) for the addition of Eagle 3 ETF certification, along with the following:**

- 1. The laboratory's testing procedure for the Eagle 3 ETF certification (per section V.B.11 f) [typically within the Quality Manual];**
- 2. The laboratory's staff training procedure for the Eagle 3 ETF (per section V.B.12) [typically within the Quality Manual];**
- 3. At least one analyst's Demonstration of Capability (DOC) record (per section V.B.13) [usually Form 55131 or a comparable substitute]; AND**
- 4. An example (or mock) certificate demonstrating an Eagle 3 ETF certification.**

**NOTE: Form 55131 is available on the [VELAP Tuning Fork webpage](#).**

The remote assessment for ETF certification will be conducted before a certificate revision is made and any non-conformances must be addressed with a corrective action report as per standard assessment protocols. VELAP will make every effort to process these requests as soon as possible. Allow up to 60 days for the request to be reviewed and up to an additional 30 days for an assessment to be scheduled. The ETF certification will start after receipt of a revised certificate specifying this addition.

A facility requesting first-time tuning fork certification may contact DCLS by email at [Lab\\_Cert@dgs.virginia.gov](mailto:Lab_Cert@dgs.virginia.gov) for information on initial certification applications.

Starting October 1, 2025 all issued certificates will include a distinction regarding the type(s) of tuning fork certification covered by the DCLS certificate. Certificates issued before October 1, 2025 will have a notation *if the Eagle 3 Electronic Tuning Fork certification has been added*.

This expansion for ETF is applicable only to the Eagle 3 ETF as of the date of this notice. Any future ETF approvals must be reviewed in advance by DPS and DCLS along with review of approval documentation and procedural information for certification of the device, provided by the manufacturer/vendor, unless otherwise specified by DPS.

Please direct any questions about this information to [Lab\\_Cert@dgs.virginia.gov](mailto:Lab_Cert@dgs.virginia.gov).