

CERTIFICATION CONCERNING DESIGN & CONSTRUCTION  
OF SPEED MEASURING DEVICES "RADAR"

FILED  
DEC 21 2021  
Black Diamond  
Municipal Court

STATE OF WASHINGTON  
COUNTY OF KING

I, **Edward E. Cole**, swear under penalty of perjury of the laws of the **State of Washington**, that the following is true and correct:

- 1) I am employed by, and proprietor of, **Wescom Communications** located at 207 SW 41<sup>st</sup> Street, Renton WA 98055, telephone (425) 251-6666;
- 2) In this employment, I maintain, repair, calibrate and certify the accuracy of electronic speed measuring devices;
- 3) Wescom is retained by the **Black Diamond Police Department** to maintain, repair, calibrate and certify electronic speed measuring devices;
- 4) I have the following education, experience and qualifications with respect to maintaining, repairing, calibrating and certifying speed measuring devices:
  - a) I hold a Federal Communications Commission license with, a radar endorsement; dated August 1984, license #PG-14-1247;
  - b) I am a N.A.B.E.R. Certified Electronic Technician, and hold a National Association of Business and Educational Radio certificate, dated August 1984;
  - c) I have successfully completed a two (2) year course at Clover Park Vocational Technical College and hold a Land, Mobile, Marine Communications certificate, dated July 1985;
  - d) I have successfully completed a radar Manufacturer's training course which encompassed the design and construction of radar instruments, the repair, maintenance, calibration and certifying of speed measuring devices, and hold a Kustom Traffic Radar Safety Systems certificate, dated May 1987;
  - e) I have accumulated **30 years and approximately thirty thousand (30,000) hours** in repair, maintenance, calibration and certification of speed measuring devices, as of the date of this affidavit;
- 5) Wescom is an authorized service center for speed measuring devices, and as a course of business, maintains service manuals with schematics on these radar instruments, of which I am personally familiar, and make these available for inspection, upon request, at the above office address, for any contest of a notice of infraction;
- 6) Through education and experience, am personally familiar with the design, construction, and operation of these speed measuring devices, which are designed and constructed to accurately employ the Doppler radar principal;
- 7) Wescom maintains a quality assurance testing, calibration, and certification program wherein each speed measuring device is routinely inspected and tested approximately every **24 months** by the following means;
  - a) **Precision Signal Generator test**; a frequency injection test which simulates a vehicle's speed through changing frequencies wherein each speed measuring device must correctly measure and register those simulated speeds in order to be certified accurate;
  - b) **General Operation and Maintenance Check**, wherein all components of the speed measuring device are checked for accurate operation;
  - c) **Internal Calibration Test**, wherein each speed measuring device's internal calibration is verified ;
  - d) **Radio Frequency Interference Check**, wherein each speed measuring device's Radio Frequency Interference detection circuitry is verified;
  - e) **Tuning Fork Test**, wherein each speed measuring device's measurement and reading is checked against a known result indicated on the tuning fork;
  - f) **Field Test**, where in all operations of each speed measuring device are checked by testing against conditions in the field;

8) The speed measuring device/radar instrument listed below was submitted to Wescom Communications by the, **Black Diamond Police Department** to be tested and evaluated by the quality assurance program noted above, and pursuant to that request, I Edward E. Cole, performed all of the program tests, and found that this speed measuring device/radar met or exceeded existing performance standards;

9) Based upon my education, training and experience, and my knowledge of the speed measuring device listed below, it is my opinion that this instrument is so designed and constructed as to accurately and reliably employ the Doppler effect in such a manner that it will give accurate measurements of the speed of motor vehicles, when properly calibrated and operated by a trained operator, to within plus (+) or minus (-) one (1) mile per hour.

Kustom Falcon FF6630, tuning fork 16540 50mph.

Kustom Falcon FF18686, tuning fork 16451 50mph.

Kustom Falcon FF21128, tuning fork 47298 65mph.

Kustom Falcon HR FH09600, tuning fork 65192 35mph. 59678 65mph.

Kustom HR-12 AA8476, tuning fork 27474 35mph. 31205 65mph.

Kustom Golden Eagle XE04281, tuning fork 38175 30mph. 44197 55mph.

Kustom Golden Eagle XE04286, tuning fork 28809 30mph. 30335 55mph.

Kustom Golden Eagle XE04298, tuning fork 22470 30mph. 24033 55mph.

Kustom Raptor RP1, RP01593, tuning fork 59428 35mph. 54943 65mph.

Kustom Raptor RP1, RP05744, tuning fork 52909 35mph. 48682 65mph.

Kustom Raptor RP1, RP15985, tuning fork 26698 35mph. 24676 65mph.

Kustom Raptor RP1, RP35588, tuning fork 51959 35mph. 51964 65mph.

Kustom Raptor RP1, RP35589, tuning fork 51947 35mph. 51976 65mph.

Kustom Raptor RP1, RP37003, tuning fork 60590 35mph. 60628 65mph.

Kustom Raptor RP1, RP37004, tuning fork 60595 35mph. 60632 65mph.

Kustom Raptor RP1, RP37005, tuning fork 60593 35mph. 60630 65mph.

Decatur Genesis II G2S 30250, tuning fork 234764 35mph. 234844 50mph.

Test Date 12-10-2021.

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Test Date 12-10-2021.

State of Washington

County of King

Signature: Edward E. Cole Date and Place 12-15-2021 Renton, Wa.

Printed Name: Edward E. Cole

☒ I have satisfactory evidence that the person described in this document:

☒ is personally known to me;

☐ is identified upon oath or affirmation or a credible witness personally known to me;

☒ is identified on the basis of basis of identification documents.

Subscribed and sworn to me on this 15<sup>th</sup> day of December, 20 21.

Notary Public in and for the State of Washington;

my commission expires on 10/14/2024.

Residing at King Co.

Signature of Notary Public: Ciara Laronde

Printed Name of Notary: Ciara Laronde

