

JUN 12 2018

CERTIFICATION CONCERNING DESIGN & CONSTRUCTION  
OF SPEED MEASURING DEVICES "RADAR"Black Diamond  
Municipal CourtSTATE 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.

Hand Held Radars

Kustom Falcon FF6630, tuning fork 16540 50mph.

Test Date 01-09-2018.

Kustom Falcon FF18686, tuning fork 16451 50mph.

Test Date 01-09-2018.

Kustom Falcon FF21128, tuning fork 47298 50mph.

Test Date 01-09-2018.

Kustom Falcon HR FH08200, tuning fork 966933 35mph. 966968 65mph.

Test Date 01-09-2018.

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

Test Date 01-09-2018.

Kustom HR-12 AA8476, tuning fork 59428 35mph. 54943 65mph.

Test Date 01-09-2018.

State of Washington

County of King

Signature: Edward E. Cole Date and Place 1-12-2018 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.

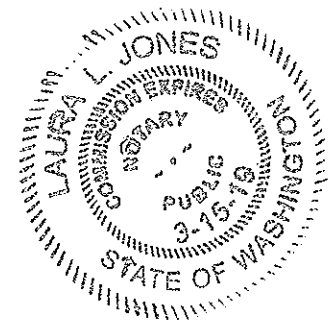
Subscribed and sworn to me on this 12<sup>th</sup> day of January, 2018.

Notary Public in and for the State of Washington;  
my commission expires on 3/15/19

Residing at Renton

Signature of Notary Public: Laura Jones

Printed Name of Notary: Laura Jones



JUN 12 2018

Black Diamond  
Municipal Court**CERTIFICATION CONCERNING DESIGN & CONSTRUCTION  
OF SPEED MEASURING DEVICES "RADAR"****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:

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- 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 Golden Eagle EG02886, tuning fork 42184 30mph. 41353 55mph.	Test Date 01-09-2018.
Kustom Golden Eagle XE04281, tuning fork 38175 30mph. 44197 55mph.	Test Date 01-09-2018.
Kustom Golden Eagle XE04286, tuning fork 28809 30mph. 30335 55mph.	Test Date 01-09-2018.
Kustom Golden Eagle XE04293, tuning fork 42187 30mph. 44196 55mph.	Test Date 01-11-2018.
Kustom Golden Eagle XE04298, tuning fork 22470 30mph. 24033 55mph.	Test Date 01-11-2018.
Kustom Golden Eagle E16668, tuning fork 90796 30mph. 90798 55mph.	Test Date 01-09-2018.
Kustom Raptor RP1, RP01593, tuning fork 45296 35mph. 43260 65mph.	Test Date 01-09-2018.
Kustom Raptor RP1, RP05744, tuning fork 52909 35mph. 48682 65mph.	Test Date 01-09-2018.
Kustom Raptor RP1, RP15985, tuning fork 26698 35mph. 24676 65mph.	Test Date 01-09-2018.
Decatur Genesis II G2S 01997, tuning fork 235281 35mph. 235386 50mph.	Test Date 01-09-2018.
Decatur Genesis II G2S 30250, tuning fork 234764 35mph. 234844 50mph.	Test Date 01-09-2018.
Decatur Genesis II G2S 30255, tuning fork 235281 35mph. 244682 50mph.	Test Date 01-09-2018.

State of Washington  
County of King

Signature: Edward E. Cole Date and Place 1-12-2018 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 12<sup>th</sup> day of January, 2018.

Notary Public in and for the State of Washington;  
my commission expires on 3/15/19

Residing at Renton

Signature of Notary Public: [Signature]

Printed Name of Notary: Laura Jones



JUN 12 2018

STATE OF WASHINGTON )  
 ) ss  
 COUNTY OF KING )

**CERTIFICATION CONCERNING DESIGN & CONSTRUCTION  
 OF THE LIDAR LASER, (LIGHT DETECTION AND RANGING);  
 A SPEED MEASURING DEVICE, (SMD)**

Black Diamond  
 Municipal Court

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; (SMD's), Lidar Laser, and Radar.
- 3) Wescom is retained by the **Black Diamond Police Department** to maintain, repair, calibrate, and certify the accuracy of 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 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.
  - c) I have successfully completed a Lidar Laser manufacturer's course and training which encompassed design, construction, repair, maintenance, calibration, and certification of the Lidar Laser speed measuring device, and received a Kustom Signals certificate dated November 1997.
  - 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 Kustom Traffic Radar Safety Systems certificates from 1987 and 1997.
  - e) I have accumulated **30** years and approximately twenty five thousand (**25,000**) hours in repair, maintenance, calibration and certification of speed measuring devices, as of the date of this affidavit.
- 5) Wescom Communications is an authorized service center for speed measuring devices, and as a course of business, maintain service manuals for the Lidar Laser, 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, experience, and training, I am personally familiar with the design, construction, and operation of these speed measuring devices. In regard to the Lidar Laser, it is designed and constructed so as to accurately and reliably employ measurement techniques based on the velocity of light as a constant in such manner that each Lidar Laser speed measuring device will give accurate and reliable measurements of the speed of motor vehicles when used by a trained operator.
- 7) Wescom maintains a quality assurance testing, calibration, and certification program wherein each speed measuring device is routinely inspected and tested every **24** months by the following means;
  - a) *Self-calibration Test*; wherein each instrument's self calibration is verified during the initial power on and when the self-test switch is activated,
  - b) *Scope Alignment Test*, wherein each instrument's scope aiming reticle is verified to be aligned with the Lidar Laser beam at all target distances,

- c) *General Operation and Maintenance Check*, wherein each instrument's display and all function controls are tested for accurate operation,
  - d) *Range Accuracy Test*, wherein each instrument's range measurements are verified to be accurate to plus (+) or minus (-) six inches,
  - e) *Speed Accuracy Test*, wherein each instrument's speed readings are compared to speed readings received and displayed by a calibrated Doppler radar speed measuring device, (*Kustom Trooper KK 1974* that I personally calibrated and certified for accuracy on **01-09-2018**), and that these speed readings are taken simultaneously on an isolated lone targeted motor vehicle and the speed ready accuracy was within (+) or (-) one mile per hour by comparison,
  - f) *Display Test*, where each instrument's display segments are verified accurate,
  - g) *Audio Test*, wherein each instrument's audio output is verified,
- 8) The Lidar Laser speed measuring device 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 Lidar Laser speed measuring device listed below, it is my opinion that this instrument is so designed and constructed as to accurately and reliably employ measurement techniques based on the velocity of light as a constant, in such a manner that each Lidar Laser speed measuring device will give accurate measurements of the speed of motor vehicle when properly tested and operated by trained operator with an accuracy of plus (+) or minus (-) one mile per hour.

**Kustom Pro Laser 3 PL27232**

**Test date: 01-09-2018.**

**STATE OF WASHINGTON  
COUNTY OF KING**

Signature: Edward E. Cole, Location: Renton WA, Dated: 1-12-2018  
 Printed Name: Edward E. Cole

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

- is personally known to me; or
- is identified upon oath or affirmation or a credible witness personally known to me; or
- is identified on the basis of basis of identification documents.

Subscribed and sworn to me on this 12<sup>th</sup> day of January, 2018.

Notary Public in and for the State of Washington; my commission expires on 3/15/19.

Residing at Renton WA  
 Signature of Notary Public: [Signature]

Printed Name of Notary: Laura Jones

