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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**:

1) I am employed by, and proprietor of, **Wescom Communications** located at 207 SW 41st 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 **City of Renton 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 over 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 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 **12 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, **City of Renton 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.

Applied Concepts Stalker DSR 2X , DB5149, tuning forks are, FA231857 25mph. FB337503 40mph. Test Date 01-20-2016.

State of Washington
County of King

Signature: Edward E. Cole

Printed Name: Edward E. Cole

Date and Place 1-20-2016 **Renton, Wa.**