



FILED
JUL 15 2016
 LYNNWOOD
 MUNICIPAL CLERK
 CERTIFYING DESIGN AND CONSTRUCTION
 OF ELECTRONIC SPEED MEASURING DEVICES
 IRLJ RULE 6.6 EFFECTIVE 1/3/2006

DAY WIRELESS SYSTEMS
 2902 Hewitt Avenue
 Everett, Washington 98201
 (425) 258-0554
 Inventory # 416298

I, Les J. Boyd, do certify under penalty of perjury as follows:

I am employed with **DAY WIRELESS SYSTEMS**. My duties include supervising the maintenance and repair of Doppler and Laser speed measuring devices (SMD's) used by **LYNNWOOD POLICE DEPARTMENT**.

<u>Manufacturer</u>	<u>Model</u>	<u>Serial Number</u>
APPLIED CONCEPTS	STALKER II MDR	AS009202
	25.25 MPH Tuning Fork	FA183906
	40.25 MPH Tuning Fork	FB286763

I have the following qualifications with respect to the above stated SMD:

Washington Technical Institute for Radio/Electronics, Bell & Howell for Electronics and Advanced Schools Incorporated for Automotive/Electronics, plus numerous courses pertaining to communications and electronics, trained by a State licensed technician. Thirty years experience in repair, maintenance, and calibration of electronic products. Successfully completed the MPH Ind. Factory training on the moving and stationary Doppler SMD's and was trained by a certified SMD technician on repair/calibration of the Laser Technologies INC. (LTI) Lidar products.

Day Wireless Systems maintains manuals for the above stated SMD. I am personally familiar with those manuals and how the SMD is designed and operated. On **JULY 13, 2016**, I, Les J. Boyd, performed testing of the above SMD. The unit was evaluated to meet or exceed existing performance standards. Day Wireless Systems maintains a testing and certification program of this SMD.

The Doppler program specifies: test procedures consisting of utilizing precision signal generators, connected to a factory waveguide assembly via coaxial cable; to simulate speeds at 5 mph increments from 20mph to 120mph to verify accuracy. In moving mode; two signals are applied simultaneously, separated through attenuation. Measurements are taken of transmit frequency; transmit output, operating current, receiver sensitivity and any accompanying tuning forks. Operational functions are tested.

The Laser SMD sends out a series of much focused light wave pulses each time the trigger is pulled and utilizes two laws of physics, time and distance (i.e. 3.5 feet in diameter at 1000 feet). Since the speed of light is a known value, the distance of the target can be determined by calculating how long it takes for the signal to travel to the target and back. This series of measurements will allow the SMD to calculate the speed of the target by measuring the distance traveled in an amount of time (usually less than a second for a veritable display). The displayed speed will be accurate to within +/- 1 mph. Day Wireless Systems does hereby certify the above listed SMD meets manufacturer's published specifications and has been calibrated using standards whose accuracy's are: In compliance and traceable to the National Institute of Standards and Technology.

Based upon my education, training, experience, and knowledge of the SMD listed above, it is my opinion that each of these pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a way that it will give accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator or, in the case of the laser SMD, each of these pieces of equipment is so designed and constructed as to accurately employ measurement techniques based on the velocity of light 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.

Les J. Boyd
 Certified by: Les J. Boyd
 Place: Everett, Washington

STATE OF WASHINGTON))
 County of Snohomish)) ss.

Signed or attested before me on **JULY 13, 2016** by Les J. Boyd

Susan C. Gorgas
 Susan C. Gorgas
 NOTARY PUBLIC in and for the State of
 Washington, residing in Everett. My
 Appointment expires January 5, 2017.

