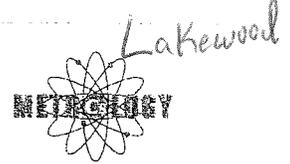


RCWD 1/15/14 KLLK303

MUNICIPAL COURT

JAN 15 2014



Cascade Engineering Services, Inc.

12026 115th Ave NE, Suite 102 Kirkland WA, 98034  
T.425.895.8617, F.425.702.9358

**FILED**  
CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION  
OF ELECTRONIC SPEED MEASURING DEVICES

**IRLJ RULE 6.6 EFFECTIVE 10/31/2000**

I, Charles N. Brown do certify under penalty of perjury as follows:

I am employed with Cascade Engineering Services, Inc. (CES) Metrology and Electronic Repair Services, as a Senior Metrology Technician, specialized in Speed Measuring Device (SMD) technology. I have been employed in such a capacity for 32 years. Part of my duties include supervising others in the maintenance and repair of all electronic Doppler and Laser speed measuring devices (SMD's) utilized by the LAKEWOOD POLICE DEPARTMENT

I maintain the following qualifications with respect to SMD(s): Twelve years military experience in electronics, which included the repair and calibration of airborne and ground radar systems. I have over 15 years experience in the repair and calibration of Doppler and Lidar SMD's. I have successfully completed factory training in the repair and service of Laser Speed Detection systems by LTI, inc. Graduate of Washington Technical Institute. I have successfully completed courses in the repair and calibration of measuring instruments. I am experienced and competent in the principles and fundamental requirements of calibration from DC to Microwave frequencies.

CES Metrology Laboratory is audited periodically by American Association for Laboratory Accreditation (A2LA) to ensure and maintain our ISO/IEC 17025:2005 accreditation and certification, (No. 2560.01), for technical competence. Our laboratory maintains manuals specific to these SMD(s). I am personally familiar with those manuals and how each of the SMD's is designed and operates. The SMD's were calibrated and tested under my direction on the Calibration Date(s) indicated. The unit(s) were serviced to meet or exceed existing performance standards.

All Doppler SMD's are tested as follows: The Vocar HR, handheld Radar certification system, Serial number VHR0510120 is used to calibrate Doppler SMD devices. The Vocar HR is calibrated annually by the manufacturer. The Vocar HR is used to simulate speeds at 5 mph increments from 20 mph to 140 mph to verify accuracy in stationary and moving mode. Measurements are taken of the SMD transmit frequency, antenna/receiver sensitivity and any accompanying tuning forks are also tested for accuracy. All other operational functions of the SMD system are then tested for proper performance.

The Laser SMD's transmit a series of highly 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 ft). Since the speed of light is a known value, the distance of the target is determined by calculating how long it takes for the signal to travel to the target and back. This series of measurements allows the SMD to calculate the speed of the target by measuring the distance traveled in time (usually less than a second for a veritable display). The displayed speed is accurate to within  $\pm 1$  MPH.

All Lidars tested on or before November 24, 2008 were performed as follows: The Lidars Crystal Oscillator Reference Frequency test confirms that the output frequency of the Lidar is within the accepted range for the output of the device. This test is performed using a Hewlett Packard 53131A Frequency Counter, SN: 3546A10749, which is calibrated annually by Agilent Technologies. The HUD Alignment test confirms the Heads-Up Display is in proper alignment. The fixed distance test verifies that the Lidar correctly measures fixed distances within tolerances set by the Manufacturer. The Delta Distance test then ensures the math microprocessor is working properly. Nominal distances are traceable to Lufkin 0-300ft tape measure, SN: L1709, which is calibrated once every 3 years. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

All Lidars tested after November 24, 2008 will be tested as follows: The Laser Speed Measurement Simulator (LSMS SN: SS000043) is used to simulate a moving target. This is accomplished by detecting the optical output pulses of the laser device and generating artificial return pulses. Different speed values and ranges are simulated by varying the time delays between the input pulses and the return pulses. The LSMS consists of a Digital Delay Generator (DDG), and an optical interface unit (SN: OH000030). The DDG produces precise time delays. The optical interface unit converts the optical energy of the laser instrument into electrical signals which are supplied to the DDG. The optical interface unit also converts the electrical signals received from the DDG into optical energy which is then transmitted to the Lidar. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

Based upon my education, training, experience, and knowledge of these SMD(s), it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a manner that it will produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by 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 produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator.

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Laser SMD(s):

**KUSTOM Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
LP01740	PRO-LITE	N/A	N/A	N/A	N/A	N/A 08/12/2011	12 MONTHS	08/12/2012
LP01962	PRO-LITE	N/A	N/A	N/A	N/A	N/A 03/22/2011	12 MONTHS	03/22/2012
LP02215	PRO-LITE	N/A	N/A	N/A	N/A	N/A 04/21/2009	12 MONTHS	04/21/2010
LP03716	PRO-LITE +	N/A	N/A	N/A	N/A	N/A 03/28/2011	12 MONTHS	03/28/2012
PL16381	PRO LASER III	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014
PL19264	PRO LASER III	N/A	N/A	N/A	N/A	N/A 03/20/2013	12 MONTHS	03/20/2014
PL19660	PRO LASER III	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014
PL19662	PRO LASER III	N/A	N/A	N/A	N/A	N/A 03/20/2013	12 MONTHS	03/20/2014
PL21056	PRO LASER III	N/A	N/A	N/A	N/A	N/A 03/20/2013	12 MONTHS	03/20/2014
PL31986	PRO LASER III	N/A	N/A	N/A	N/A	N/A 01/09/2014	12 MONTHS	01/09/2015
PL31987	PRO LASER III	N/A	N/A	N/A	N/A	N/A 01/03/2014	12 MONTHS	01/03/2015
PL31988	PRO LASER III	N/A	N/A	N/A	N/A	N/A 06/27/2012	12 MONTHS	06/27/2013
PL31990	PRO LASER III	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014

**LASER TECHNOLOGY INC. Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
TJ000427	LTI 20-20	N/A	N/A	N/A	N/A	N/A 03/20/2013	12 MONTHS	03/20/2014
TJ000798	LTI 20-20 TRUSPEED	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014
TJ000799	LTI 20-20 TRUSPEED	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014
TJ000801	LTI 20-20 TRUSPEED	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014
TJ000813	LTI 20-20 TRUSPEED	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014

**LTI Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
I05794/TJ000194	LTI 20/20 TRU SPEED	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014
I05795/TJ000191	LTI 20/20 TRU SPEED	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014
I05796/TJ000192	LTI 20/20 TRU SPEED	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014
I05797/TJ000195	LTI 20/20 TRU SPEED	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

**APPLIED CONCEPTS Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
DC099952	STALKER DUAL SL	KA073616	KA073625	FA168766	FA268481	09/13/2013	24 MONTHS	09/13/2015
DC110304	STALKER DUAL SL	KC076547	KC076551	FA212570	FB315146	10/01/2013	24 MONTHS	10/01/2015
DC110305	STALKER DUAL SL	KC076550	KC076563	FA212572	FB315145	10/01/2013	24 MONTHS	10/01/2015
DP013353	STALKER DSR 2X	KC0039069	KR013231	182916	382408	03/21/2012	24 MONTHS	03/21/2014
DP14191	STALKER DSR 2X	KC042327	KR014273	185375	286536	03/21/2012	24 MONTHS	03/21/2014
DP14215	STALKER DSR 2X	KR014265	KC042312	185380	286539	03/21/2012	24 MONTHS	03/21/2014
DP14218	STALKER DSR 2X	KR014335	KC042330	185379	286540	03/21/2012	24 MONTHS	03/21/2014
DP14222	STALKER DSR 2X	KC042309	KR014266	185377	286537	04/04/2012	24 MONTHS	04/04/2014
DP14228	STALKER DSR 2X	KR014333	KC042254	185378	286538	06/27/2013	24 MONTHS	06/27/2015

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

DECATUR Manufacturer's the following SMD(s)

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
GHD-04683	GENESIS HANDHELD	HANDHELD	N/A	156143	156034	06/27/2013	24 MONTHS	06/27/2015
GHD-04684	GENESIS HANDHELD	HANDHELD	N/A	156120	156046	06/02/2011	24 MONTHS	06/02/2013
GHD-04731	GENESIS HANDHELD	HANDHELD	N/A	156162	N/A	06/27/2012	24 MONTHS	06/27/2014
GHD-04737	GENESIS HANDHELD	HANDHELD	N/A	156150	156005	10/05/2011	24 MONTHS	10/05/2013
GHD-04754	GENESIS HANDHELD	HANDHELD	N/A	155997	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04811	GENESIS HANDHELD	HANDHELD	N/A	156087	156047	06/27/2012	24 MONTHS	06/27/2014
GHD-04823	GENESIS HANDHELD	HANDHELD	N/A	156158	156015	03/20/2013	24 MONTHS	03/20/2015
GHD-04824	GENESIS HANDHELD	HANDHELD	N/A	156123	170699	10/05/2011	24 MONTHS	10/05/2013
GHD-04826	GENESIS HANDHELD	HANDHELD	N/A	55528	51531	06/27/2012	24 MONTHS	06/27/2014
GHD-04828	GENESIS HANDHELD	HANDHELD	N/A	6728	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04829	GENESIS HANDHELD	HANDHELD	N/A	155974	N/A	03/22/2011	24 MONTHS	03/22/2013
GHD-04831	GENESIS HANDHELD	HANDHELD	N/A	156072	156002	06/27/2013	24 MONTHS	06/27/2015
GHD-04864	GENESIS HANDHELD	HANDHELD	N/A	156111	155998	08/03/2010	24 MONTHS	08/03/2012
GHD-04866	GENESIS HANDHELD	HANDHELD	N/A	156142	156062	10/05/2011	24 MONTHS	10/05/2013
GHD-04870	GENESIS HANDHELD	HANDHELD	N/A	156088	156060	11/01/2011	24 MONTHS	11/01/2013
GHD-04890	GENESIS HANDHELD	HANDHELD	N/A	47291	N/A	01/03/2014	24 MONTHS	01/03/2016
GHD-04891	GENESIS HANDHELD	HANDHELD	N/A	156101	155975	10/05/2011	24 MONTHS	10/05/2013
GHD-04897	GENESIS HANDHELD	HANDHELD	N/A	156170	156031	03/20/2013	24 MONTHS	03/20/2015
I01484/GHD-04890	GENESIS DIRECTION	HANDHELD	N/A	156169	156049	10/13/2009	24 MONTHS	10/13/2011

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

**MPH INDUSTRIES Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
5240	VINDICATOR	HANDHELD	N/A	298388	N/A	03/20/2013	24 MONTHS	03/20/2015
5244	VINDICATOR	N/A	N/A	15233	N/A	06/27/2012	24 MONTHS	06/27/2014
5245	VINDICATOR	N/A	N/A	6887	N/A	03/21/2012	24 MONTHS	03/21/2014
5246	VINDICATOR	HANDHELD	N/A	6886	N/A	03/20/2013	24 MONTHS	03/20/2015
664008614	BEE III	BEN653021584	BEN653021585	392233	392408	03/20/2013	24 MONTHS	03/20/2015
664008615	BEE III	BEN653021587	BEN653021586	392276	392395	09/04/2013	24 MONTHS	09/04/2015
664008616	BEE III	BEN653021589	BEN653021588	392248	392252	03/20/2013	24 MONTHS	03/20/2015
930002311	BEE III	BEN65303004	BEN65303005	965581	965546	03/21/2012	24 MONTHS	03/21/2014
930002312	BEE III	BEN653013007	BEN653013006	076340	075662	03/21/2012	24 MONTHS	03/21/2014
930002313	BEE III	BEN653013004	BEN653013005	965581	965546	04/04/2012	24 MONTHS	04/04/2014
930002314	BEE III	BEN653013011	BEN653013010	965583	965516	06/27/2013	24 MONTHS	06/27/2015
930002315	BEE III	BEN653013012	BEN653013013	41523	43437	06/27/2013	24 MONTHS	06/27/2015
BEE245001233	BEE 36	BEE113001613	BEE113000605	964961	854485	03/22/2011	24 MONTHS	03/22/2013
BEE245001850	BEE	BEN113002154	BEE113002155	N/A	N/A	07/13/2010	24 MONTHS	
BEE664000372	BEE III	BEN653000920	BEN653000919	298611	298681	06/27/2012	24 MONTHS	06/27/2014
BEE665000388	BEE	BEN653000917	BEN653000918	7477797	749718	06/27/2012	24 MONTHS	06/27/2014
BEE706000288	BEE III	BEN653000920	BEN653000919	965568	965513	06/27/2013	24 MONTHS	06/27/2015
ENF686000136	ENFORCER	BEN653000921	N/A	298523	298529	07/13/2010	24 MONTHS	07/13/2012
HHM556000951	SPEED GUN	HANDHELD	N/A	966359	070908	07/26/2013	24 MONTHS	07/26/2015
HHM556000952	SPEED GUN	HANDHELD	N/A	964957	854604	03/21/2012	24 MONTHS	03/21/2014
HHS568000845	Z-15	HANDHELD	N/A	6876	N/A	03/22/2011	24 MONTHS	03/22/2013
HHS568000846	Z-15	HANDHELD	N/A	298375	N/A	04/25/2012	24 MONTHS	04/25/2014
HHS568000847	Z-15	HANDHELD	N/A	070704	N/A	03/20/2013	24 MONTHS	03/20/2015
HHS569000666	Z-25	HANDHELD	N/A	969332	969196	06/02/2011	24 MONTHS	06/02/2013
PYT546000033	PYTHON II	PYT315004668	BEE 113001606	263407	204532	03/21/2012	24 MONTHS	03/21/2014
PYT546001907	PYTHON	PYT315008028	PYT315008029	55522	51534	06/27/2012	24 MONTHS	06/27/2014
PYT546003677	PYTHON II	PYT315011063	PYT315011064	286377	286435	04/25/2012	24 MONTHS	04/25/2014
PYT546007249	PYTHON	PYT315017400	PYT315017401	N/A	N/A	10/17/2012	24 MONTHS	10/17/2014
PYT546007250	PYTHON II	PYT315017402	PYT315017403	413696	413526	12/17/2013	24 MONTHS	12/17/2015
PYT546007251	PYTHON	PYT315017405	PYT315017404	N/A	N/A	10/18/2012	24 MONTHS	10/18/2014
PYT546007252	PYTHON	PYT315017407	PYT315017406	413618	413531	07/17/2013	24 MONTHS	07/17/2015
PYT546007253	PYTHON	PYT315017408	PYT315017409	44010	854609	04/04/2012	24 MONTHS	04/04/2014
PYT546007254	PYTHON	PYT315017410	PYT315017411	286377	286435	06/27/2013	24 MONTHS	06/27/2015
PYT546007255	PYTHON	PYT315017412	PYT315017413	413620	413543	03/20/2013	24 MONTHS	03/20/2015
PYT546007256	PYTHON	PYT135017415	PYT135017414	413615	413528	03/21/2012	24 MONTHS	03/21/2014
PYT846003010	PYTHON III	PYT831003433	PYT855003837	969246	969129	09/19/2013	24 MONTHS	09/19/2015
PYT846003011	PYTHON III	PYT855003888	PYT831003434	276713	276256	03/20/2013	24 MONTHS	03/20/2015
PYT846003458	PYTHON III	PYT831004079	PYT855004541	077805	077831	03/21/2012	24 MONTHS	03/21/2014
PYT846003459	PYTHON III	PYT381004080	PYT855004542	077808	077822	06/27/2013	24 MONTHS	06/27/2015
PYT846003460	PYTHON III	PYT831004081	N/A	N/A	N/A	10/17/2012	24 MONTHS	10/17/2014
PYT846003644	PYTHON III	PYT831004153	PYT855004836	077880	077834	03/21/2012	24 MONTHS	03/21/2014

**State of Washington  
County of King**

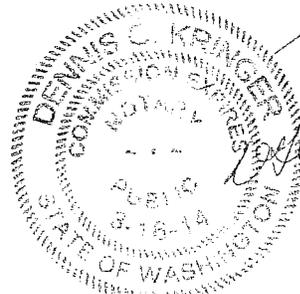
Signed or attested before me on

1/9/14

by Charles N. Brown

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

- (a) is personally known to me; OR (b) is identified upon oath or affirmation of credible witness personally know to me; OR
- (c) is identified on the basis of Identification documents.



*Dennis G. Kringer*  
Dennis G. Kringer

Notary Public in and for the State of Washington,  
Residing in Bellevue, WA  
My appointment expires March 16, 2014

*Charles N. Brown*  
Certified by: Charles N. Brown  
Place: Redmond, WA

IRLJ RULE 6.6 EFFECTIVE 10/31/2000

I, Charles N. Brown do certify under penalty of perjury as follows:

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Based upon my education, training, experience, and knowledge of these SMD(s), it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a manner that it will produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by 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 produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator.

RECEIVED

FEB 13 2009

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This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Laser SMD(s):

**KUSTOM Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
LP01740	PRO-LITE	N/A	N/A	N/A	N/A	08/12/2011	12 MONTHS	08/12/2012
LP01962	PRO-LITE	N/A	N/A	N/A	N/A	03/22/2011	12 MONTHS	03/22/2012
LP02215	PRO-LITE	N/A	N/A	N/A	N/A	04/21/2009	12 MONTHS	04/21/2010
LP03716	PRO-LITE +	N/A	N/A	N/A	N/A	03/28/2011	12 MONTHS	03/28/2012
PL16381	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
PL19264	PRO LASER III	N/A	N/A	N/A	N/A	03/20/2013	12 MONTHS	03/20/2014
PL19660	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
PL19662	PRO LASER III	N/A	N/A	N/A	N/A	03/20/2013	12 MONTHS	03/20/2014
PL21056	PRO LASER III	N/A	N/A	N/A	N/A	03/20/2013	12 MONTHS	03/20/2014
PL31986	PRO LASER III	N/A	N/A	N/A	N/A	01/09/2014	12 MONTHS	01/09/2015
PL31987	PRO LASER III	N/A	N/A	N/A	N/A	01/03/2014	12 MONTHS	01/03/2015
PL31988	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2012	12 MONTHS	06/27/2013
PL31990	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014

**LASER TECHNOLOGY INC. Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
TJ000427	LTI 20-20	N/A	N/A	N/A	N/A	03/20/2013	12 MONTHS	03/20/2014
TJ000798	LTI 20-20 TRUSPEEL	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
TJ000799	LTI 20-20 TRUSPEEL	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
TJ000801	LTI 20-20 TRUSPEEL	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
TJ000813	LTI 20-20 TRUSPEEL	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014

**LTI Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
I05794/TJ000194	LTI 20/20 TRU SPEEL	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
I05795/TJ000191	LTI 20/20 TRU SPEEL	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
I05796/TJ000192	LTI 20/20 TRU SPEEL	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
I05797/TJ000195	LTI 20/20 TRU SPEEL	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

**APPLIED CONCEPTS Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
DC099952	STALKER DUAL SL	KA073616	KA073625	FA168766	FA268481	09/13/2013	24 MONTHS	09/13/2015
DC110304	STALKER DUAL SL	KC076547	KC076551	FA212570	FB315146	10/01/2013	24 MONTHS	10/01/2015
DC110305	STALKER DUAL SL	KC076550	KC076563	FA212572	FB315145	10/01/2013	24 MONTHS	10/01/2015
DP013353	STALKER DSR 2X	KC0039069	KR013231	182916	382408	03/21/2012	24 MONTHS	03/21/2014
DP14191	STALKER DSR 2X	KC042327	KR014273	185375	286536	03/21/2012	24 MONTHS	03/21/2014
DP14215	STALKER DSR 2X	KR014265	KC042312	185380	286539	03/21/2012	24 MONTHS	03/21/2014
DP14218	STALKER DSR 2X	KR014335	KC042330	185379	286540	03/21/2012	24 MONTHS	03/21/2014
DP14222	STALKER DSR 2X	KC042309	KR014266	185377	286537	02/10/2014	24 MONTHS	02/10/2016
DP14228	STALKER DSR 2X	KR014333	KC042254	185378	286538	06/27/2013	24 MONTHS	06/27/2015

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

DECATUR Manufacturer's the following SMD(s)

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
GHD-04683	GENESIS HANDHELI	HANDHELD	N/A	156143	156034	06/27/2013	24 MONTHS	06/27/2015
GHD-04684	GENESIS HANDHELI	HANDHELD	N/A	156120	156046	06/02/2011	24 MONTHS	06/02/2013
GHD-04731	GENESIS HANDHELI	HANDHELD	N/A	156162	N/A	06/27/2012	24 MONTHS	06/27/2014
GHD-04737	GENESIS HANDHELI	HANDHELD	N/A	156150	156005	10/05/2011	24 MONTHS	10/05/2013
GHD-04754	GENESIS HANDHELI	HANDHELD	N/A	155997	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04811	GENESIS HANDHELI	HANDHELD	N/A	156087	156047	06/27/2012	24 MONTHS	06/27/2014
GHD-04823	GENESIS HANDHELI	HANDHELD	N/A	156158	156015	03/20/2013	24 MONTHS	03/20/2015
GHD-04824	GENESIS HANDHELI	HANDHELD	N/A	156123	170699	10/05/2011	24 MONTHS	10/05/2013
GHD-04826	GENESIS HANDHELI	HANDHELD	N/A	55528	51531	06/27/2012	24 MONTHS	06/27/2014
GHD-04828	GENESIS HANDHELI	HANDHELD	N/A	6728	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04829	GENESIS HANDHELI	HANDHELD	N/A	155974	N/A	03/22/2011	24 MONTHS	03/22/2013
GHD-04831	GENESIS HANDHELI	HANDHELD	N/A	156072	156002	06/27/2013	24 MONTHS	06/27/2015
GHD-04864	GENESIS HANDHELI	HANDHELD	N/A	156111	155998	08/03/2010	24 MONTHS	08/03/2012
GHD-04866	GENESIS HANDHELI	HANDHELD	N/A	156142	156062	10/05/2011	24 MONTHS	10/05/2013
GHD-04870	GENESIS HANDHELI	HANDHELD	N/A	156088	156060	11/01/2011	24 MONTHS	11/01/2013
GHD-04890	GENESIS HANDHELI	HANDHELD	N/A	47291	N/A	01/03/2014	24 MONTHS	01/03/2016
GHD-04891	GENESIS HANDHELI	HANDHELD	N/A	156101	155975	10/05/2011	24 MONTHS	10/05/2013
GHD-04897	GENESIS HANDHELI	HANDHELD	N/A	156170	156031	03/20/2013	24 MONTHS	03/20/2015
I01484/GHD-04890	GENESIS DIRECTIOI	HANDHELD	N/A	156169	156049	10/13/2009	24 MONTHS	10/13/2011

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

**MPH INDUSTRIES Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
5240	VINDICATOR	HANDHELD	N/A	298388	N/A	03/20/2013	24 MONTHS	03/20/2015
5244	VINDICATOR	N/A	N/A	15233	N/A	06/27/2012	24 MONTHS	06/27/2014
5245	VINDICATOR	N/A	N/A	6887	N/A	03/21/2012	24 MONTHS	03/21/2014
5246	VINDICATOR	HANDHELD	N/A	6886	N/A	03/20/2013	24 MONTHS	03/20/2015
664008614	BEE III	BEN653021584	BEN653021585	392233	392408	03/20/2013	24 MONTHS	03/20/2015
664008615	BEE III	BEN653021587	BEN653021586	392276	392395	09/04/2013	24 MONTHS	09/04/2015
664008616	BEE III	BEN653021589	BEN653021588	392248	392252	03/20/2013	24 MONTHS	03/20/2015
930002311	BEE III	BEN65303004	BEN65303005	965581	965546	03/21/2012	24 MONTHS	03/21/2014
930002312	BEE III	BEN653013007	BEN653013006	076340	075662	03/21/2012	24 MONTHS	03/21/2014
930002313	BEE III	BEN653013004	BEN653013005	965581	965546	04/04/2012	24 MONTHS	04/04/2014
930002314	BEE III	BEN653013011	BEN653013010	965583	965516	06/27/2013	24 MONTHS	06/27/2015
930002315	BEE III	BEN653013012	BEN653013013	41523	43437	06/27/2013	24 MONTHS	06/27/2015
BEE245001233	BEE 36	BEE113001613	BEE113000605	964961	854485	03/22/2011	24 MONTHS	03/22/2013
BEE245001850	BEE	BEN113002154	BEE113002155	N/A	N/A	07/13/2010	24 MONTHS	
BEE664000372	BEE III	BEN653000920	BEN653000919	298611	298681	06/27/2012	24 MONTHS	06/27/2014
BEE665000388	BEE	BEN653000917	BEN653000918	7477797	749718	06/27/2012	24 MONTHS	06/27/2014
BEE706000288	BEE III	BEN653000920	BEN653000919	965568	965513	06/27/2013	24 MONTHS	06/27/2015
ENF686000136	ENFORCER	BEN653000921	N/A	298523	298529	07/13/2010	24 MONTHS	07/13/2012
HHM556000951	SPEED GUN	HANDHELD	N/A	966359	070908	07/26/2013	24 MONTHS	07/26/2015
HHM556000952	SPEED GUN	HANDHELD	N/A	964957	854604	03/21/2012	24 MONTHS	03/21/2014
HHS568000845	Z-15	HANDHELD	N/A	6876	N/A	03/22/2011	24 MONTHS	03/22/2013
HHS568000846	Z-15	HANDHELD	N/A	298375	N/A	04/25/2012	24 MONTHS	04/25/2014
HHS568000847	Z-15	HANDHELD	N/A	070704	N/A	03/20/2013	24 MONTHS	03/20/2015
HHS569000666	Z-25	HANDHELD	N/A	969332	969196	06/02/2011	24 MONTHS	06/02/2013
PYT546000033	PYTHON II	PYT315004668	BEE 113001606	263407	204532	03/21/2012	24 MONTHS	03/21/2014
PYT546001907	PYTHON	PYT315008028	PYT315008029	55522	51534	06/27/2012	24 MONTHS	06/27/2014
PYT546003677	PYTHON II	PYT315011063	PYT315011064	286377	286435	04/25/2012	24 MONTHS	04/25/2014
PYT546007249	PYTHON	PYT315017400	PYT315017401	N/A	N/A	10/17/2012	24 MONTHS	10/17/2014
PYT546007250	PYTHON II	PYT315017402	PYT315017403	413696	413526	12/17/2013	24 MONTHS	12/17/2015
PYT546007251	PYTHON	PYT315017405	PYT315017404	N/A	N/A	10/18/2012	24 MONTHS	10/18/2014
PYT546007252	PYTHON	PYT315017407	PYT315017406	413618	413531	07/17/2013	24 MONTHS	07/17/2015
PYT546007253	PYTHON	PYT315017408	PYT315017409	44010	854609	04/04/2012	24 MONTHS	04/04/2014
PYT546007254	PYTHON	PYT315017410	PYT315017411	286377	286435	06/27/2013	24 MONTHS	06/27/2015
PYT546007255	PYTHON	PYT315017412	PYT315017413	413620	413543	03/20/2013	24 MONTHS	03/20/2015
PYT546007256	PYTHON	PYT135017415	PYT135017414	413615	413528	03/21/2012	24 MONTHS	03/21/2014
PYT846003010	PYTHON III	PYT831003433	PYT855003837	969246	969129	09/19/2013	24 MONTHS	09/19/2015
PYT846003011	PYTHON III	PYT855003888	PYT831003434	276713	276256	03/20/2013	24 MONTHS	03/20/2015
PYT846003458	PYTHON III	PYT831004079	PYT855004541	077805	077831	03/21/2012	24 MONTHS	03/21/2014
PYT846003459	PYTHON III	PYT381004080	PYT855004542	077808	077822	06/27/2013	24 MONTHS	06/27/2015
PYT846003460	PYTHON III	PYT831004081	N/A	N/A	N/A	10/17/2012	24 MONTHS	10/17/2014
PYT846003644	PYTHON III	PYT831004153	PYT855004836	077880	077834	03/21/2012	24 MONTHS	03/21/2014

**State of Washington  
County of King**

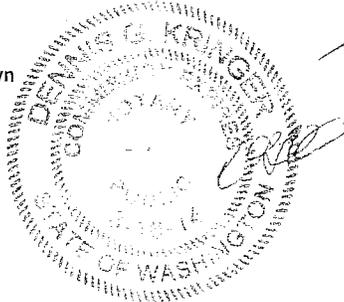
Signed or attested before me on

2/10/14

by Charles N. Brown

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

- (a) is personally known to me; OR
- (b) is identified upon oath or affirmation of credible witness personally know to me; OR
- (c) is identified on the basis of identification documents.



*Dennis G. Kringer*  
Dennis G. Kringer

Notary Public in and for the State of Washington,  
Residing in Bellevue, WA  
My appointment expires March 16, 2014

*Charles N. Brown*  
Certified by: Charles N. Brown  
Place: Redmond, WA

MAR. 17 2014

FILED




Cascade Engineering Services, Inc.

12026 115th Ave NE, Suite 102 Kirkland WA, 98034  
T.425.895.8617, F.425.702.9358

CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION  
OF ELECTRONIC SPEED MEASURING DEVICES

IRLJ RULE 6.6 EFFECTIVE 10/31/2000

I, Charles N. Brown do certify under penalty of perjury as follows:

I am employed with Cascade Engineering Services, Inc. (CES) Metrology and Electronic Repair Services, as a Senior Metrology Technician, specialized in Speed Measuring Device (SMD) technology. I have been employed in such a capacity for 32 years. Part of my duties include supervising others in the maintenance and repair of all electronic Doppler and Laser speed measuring devices (SMD's) utilized by the LAKEWOOD POLICE DEPARTMENT

I maintain the following qualifications with respect to SMD(s): Twelve years military experience in electronics, which included the repair and calibration of airborne and ground radar systems. I have over 15 years experience in the repair and calibration of Doppler and Lidar SMD's. I have successfully completed factory training in the repair and service of Laser Speed Detection systems by LTI, Inc. Graduate of Washington Technical Institute. I have successfully completed courses in the repair and calibration of measuring instruments. I am experienced and competent in the principles and fundamental requirements of calibration from DC to Microwave frequencies.

CES Metrology Laboratory is audited periodically by American Association for Laboratory Accreditation (A2LA) to ensure and maintain our ISO/IEC 17025:2005 accreditation and certification, (No. 2560.01), for technical competence. Our laboratory maintains manuals specific to these SMD(s). I am personally familiar with those manuals and how each of the SMD's is designed and operates. The SMD's were calibrated and tested under my direction on the Calibration Date(s) indicated. The unit(s) were serviced to meet or exceed existing performance standards.

All Doppler SMD's are tested as follows: The Vocar HR, handheld Radar certification system, Serial number VHR0510120 is used to calibrate Doppler SMD devices. The Vocar HR is calibrated annually by the manufacturer. The Vocar HR is used to simulate speeds at 5 mph increments from 20 mph to 140 mph to verify accuracy in stationary and moving mode. Measurements are taken of the SMD transmit frequency, antenna/receiver sensitivity and any accompanying tuning forks are also tested for accuracy. All other operational functions of the SMD system are then tested for proper performance.

The Laser SMD's transmit a series of highly 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 ft). Since the speed of light is a known value, the distance of the target is determined by calculating how long it takes for the signal to travel to the target and back. This series of measurements allows the SMD to calculate the speed of the target by measuring the distance traveled in time (usually less than a second for a veritable display). The displayed speed is accurate to within  $\pm 1$  MPH.

All Lidars tested on or before November 24, 2008 were performed as follows: The Lidars Crystal Oscillator Reference Frequency test confirms that the output frequency of the Lidar is within the accepted range for the output of the device. This test is performed using a Hewlett Packard 53131A Frequency Counter, SN: 3546A10749, which is calibrated annually by Agilent Technologies. The HUD Alignment test confirms the Heads-Up Display is in proper alignment. The fixed distance test verifies that the Lidar correctly measures fixed distances within tolerances set by the Manufacturer. The Delta Distance test then ensures the math microprocessor is working properly. Nominal distances are traceable to Lufkin 0-300ft tape measure, SN: L1709, which is calibrated once every 3 years. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

All Lidars tested after November 24, 2008 will be tested as follows: The Laser Speed Measurement Simulator (LSMS SN: SS000043) is used to simulate a moving target. This is accomplished by detecting the optical output pulses of the laser device and generating artificial return pulses. Different speed values and ranges are simulated by varying the time delays between the input pulses and the return pulses. The LSMS consists of a Digital Delay Generator (DDG), and an optical interface unit (SN: OH000030). The DDG produces precise time delays. The optical interface unit converts the optical energy of the laser instrument into electrical signals which are supplied to the DDG. The optical interface unit also converts the electrical signals received from the DDG into optical energy which is then transmitted to the Lidar. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

Based upon my education, training, experience, and knowledge of these SMD(s), it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a manner that it will produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by 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 produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator.

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Laser SMD(s):

**KUSTOM Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
LP01740	PRO-LITE	N/A	N/A	N/A	N/A	08/12/2011	12 MONTHS	08/12/2012
LP01962	PRO-LITE	N/A	N/A	N/A	N/A	03/22/2011	12 MONTHS	03/22/2012
LP02215	PRO-LITE	N/A	N/A	N/A	N/A	04/21/2009	12 MONTHS	04/21/2010
LP03716	PRO-LITE +	N/A	N/A	N/A	N/A	03/28/2011	12 MONTHS	03/28/2012
PL16381	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
PL19264	PRO LASER III	N/A	N/A	N/A	N/A	03/20/2013	12 MONTHS	03/20/2014
PL19660	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL19662	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL21056	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL31986	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL31987	PRO LASER III	N/A	N/A	N/A	N/A	01/03/2014	12 MONTHS	01/03/2015
PL31988	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2012	12 MONTHS	06/27/2013
PL31990	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
PL31991	PRO LASER III	N/A	N/A	N/A	N/A	07/17/2013	12 MONTHS	

**LASER TECHNOLOGY INC. Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
TJ000427	LTI 20-20	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000798	LTI 20-20 TRUSPEEC	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
TJ000799	LTI 20-20 TRUSPEEC	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
TJ000801	LTI 20-20 TRUSPEEC	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000813	LTI 20-20 TRUSPEEC	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014

**LTI Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
I05794/TJ000194	LTI 20/20 TRU SPEEC	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
I05795/TJ000191	LTI 20/20 TRU SPEEC	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
I05796/TJ000192	LTI 20/20 TRU SPEEC	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
I05797/TJ000195	LTI 20/20 TRU SPEEC	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

**APPLIED CONCEPTS Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
DC099952	STALKER DUAL SL	KA073616	KA073625	FA168766	FA268481	09/13/2013	24 MONTHS	09/13/2015
DC110304	STALKER DUAL SL	KC076547	KC076551	FA212570	FB315146	10/01/2013	24 MONTHS	10/01/2015
DC110305	STALKER DUAL SL	KC076550	KC076563	FA212572	FB315145	10/01/2013	24 MONTHS	10/01/2015
DP013353	STALKER DSR 2X	KC0039069	KR013231	182916	382408	03/06/2014	24 MONTHS	03/06/2016
DP14191	STALKER DSR 2X	KC042327	KR014273	135376	286536	03/06/2014	24 MONTHS	03/06/2016
DP14215	STALKER DSR 2X	KR014265	KC042312	185380	286539	03/06/2014	24 MONTHS	03/06/2016
DP14218	STALKER DSR 2X	KR014335	KC042330	185379	286540	03/06/2014	24 MONTHS	03/06/2016
DP14222	STALKER DSR 2X	KC042309	KR014266	185377	286537	02/10/2014	24 MONTHS	02/10/2016
DP14228	STALKER DSR 2X	KR014333	KC042254	185378	286538	06/27/2013	24 MONTHS	06/27/2015

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

DECATUR Manufacturer's the following SMD(s)

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
GHD-04683	GENESIS HANDHELI	HANDHELD	N/A	156143	156034	06/27/2013	24 MONTHS	06/27/2015
GHD-04684	GENESIS HANDHELI	HANDHELD	N/A	156120	156046	06/02/2011	24 MONTHS	06/02/2013
GHD-04731	GENESIS HANDHELI	HANDHELD	N/A	156162	N/A	06/27/2012	24 MONTHS	06/27/2014
GHD-04737	GENESIS HANDHELI	HANDHELD	N/A	156150	156005	10/05/2011	24 MONTHS	10/05/2013
GHD-04754	GENESIS HANDHELI	HANDHELD	N/A	155997	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04811	GENESIS HANDHELI	HANDHELD	N/A	156087	156047	03/06/2014	24 MONTHS	03/06/2016
GHD-04823	GENESIS HANDHELI	HANDHELD	N/A	156158	156015	03/20/2013	24 MONTHS	03/20/2015
GHD-04824	GENESIS HANDHELI	HANDHELD	N/A	156123	170699	03/06/2014	24 MONTHS	03/06/2016
GHD-04826	GENESIS HANDHELI	HANDHELD	N/A	55528	51531	03/06/2014	24 MONTHS	03/06/2016
GHD-04828	GENESIS HANDHELI	HANDHELD	N/A	6728	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04829	GENESIS HANDHELI	HANDHELD	N/A	155974	N/A	03/22/2011	24 MONTHS	03/22/2013
GHD-04831	GENESIS HANDHELI	HANDHELD	N/A	156072	156002	06/27/2013	24 MONTHS	06/27/2015
GHD-04864	GENESIS HANDHELI	HANDHELD	N/A	156111	155998	08/03/2010	24 MONTHS	08/03/2012
GHD-04866	GENESIS HANDHELI	HANDHELD	N/A	156142	156062	10/05/2011	24 MONTHS	10/05/2013
GHD-04870	GENESIS HANDHELI	HANDHELD	N/A	156088	156060	11/01/2011	24 MONTHS	11/01/2013
GHD-04890	GENESIS HANDHELI	HANDHELD	N/A	47291	N/A	01/03/2014	24 MONTHS	01/03/2016
GHD-04891	GENESIS HANDHELI	HANDHELD	N/A	156101	155975	10/05/2011	24 MONTHS	10/05/2013
GHD-04897	GENESIS HANDHELI	HANDHELD	N/A	156170	156031	03/20/2013	24 MONTHS	03/20/2015
I01484/GHD-04890	GENESIS DIRECTIOI	HANDHELD	N/A	156169	156049	10/13/2009	24 MONTHS	10/13/2011

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

**MPH INDUSTRIES Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
5240	VINDICATOR	HANDHELD	N/A	298388	N/A	03/20/2013	24 MONTHS	03/20/2015
5244	VINDICATOR	N/A	N/A	15233	N/A	06/27/2012	24 MONTHS	06/27/2014
5245	VINDICATOR	N/A	N/A	6887	N/A	03/06/2014	24 MONTHS	03/06/2016
5246	VINDICATOR	HANDHELD	N/A	6886	N/A	03/20/2013	24 MONTHS	03/20/2015
664008614	BEE III	BEN653021584	BEN653021585	392233	392408	03/20/2013	24 MONTHS	03/20/2015
664008615	BEE III	BEN653021587	BEN653021586	392276	392395	09/04/2013	24 MONTHS	09/04/2015
664008616	BEE III	BEN653021589	BEN653021588	392248	392252	03/20/2013	24 MONTHS	03/20/2015
930002311	BEE III	BEN65303004	BEN65303005	298523	298529	03/06/2014	24 MONTHS	03/06/2016
930002312	BEE III	BEN653013007	BEN653013006	076340	075662	03/21/2012	24 MONTHS	03/21/2014
930002313	BEE III	BEN653013004	BEN653013005	965581	965546	03/06/2014	24 MONTHS	03/06/2016
930002314	BEE III	BEN653013011	BEN653013010	965583	965516	06/27/2013	24 MONTHS	06/27/2015
930002315	BEE III	BEN653013012	BEN653013013	41523	43437	06/27/2013	24 MONTHS	06/27/2015
BEE109002087	BEE 36	BEE113001613	BEE113000605	392245	392393	03/06/2014	24 MONTHS	03/06/2016
BEE245001233	BEE 36	BEE113001613	BEE113000605	964961	854485	03/22/2011	24 MONTHS	03/22/2013
BEE245001850	BEE	BEN113002154	BEE113002155	N/A	N/A	07/13/2010	24 MONTHS	
BEE664000372	BEE III	BEN653000920	BEN653000919	298611	298681	03/06/2014	24 MONTHS	03/06/2016
BEE665000388	BEE	BEN653000917	BEN653000918	7477797	749718	06/27/2012	24 MONTHS	06/27/2014
BEE706000288	BEE III	BEN653000920	BEN653000919	076340	075662	03/06/2014	24 MONTHS	03/06/2016
ENF686000136	ENFORCER	BEN653000921	N/A	298523	298529	07/13/2010	24 MONTHS	07/13/2012
HHM556000951	SPEED GUN	HANDHELD	N/A	966359	070908	07/26/2013	24 MONTHS	07/26/2015
HHM556000952	SPEED GUN	HANDHELD	N/A	964957	854604	03/21/2012	24 MONTHS	03/21/2014
HHS568000845	Z-15	HANDHELD	N/A	6876	N/A	03/22/2011	24 MONTHS	03/22/2013
HHS568000846	Z-15	HANDHELD	N/A	298375	N/A	04/25/2012	24 MONTHS	04/25/2014
HHS568000847	Z-15	HANDHELD	N/A	070704	N/A	03/20/2013	24 MONTHS	03/20/2015
HHS569000666	Z-25	HANDHELD	N/A	969332	969196	06/02/2011	24 MONTHS	06/02/2013
PYT546000033	PYTHON II	PYT315004668	BEE 113001606	263407	204532	03/06/2014	24 MONTHS	03/06/2016
PYT546001907	PYTHON	PYT315008028	PYT315008029	55522	51534	06/27/2012	24 MONTHS	06/27/2014
PYT546003677	PYTHON II	PYT315011063	PYT315011064	286377	286435	04/25/2012	24 MONTHS	04/25/2014
PYT546007249	PYTHON	PYT315017400	PYT315017401	N/A	N/A	10/17/2012	24 MONTHS	10/17/2014
PYT546007250	PYTHON II	PYT315017402	PYT315017403	413696	413526	12/17/2013	24 MONTHS	12/17/2015
PYT546007251	PYTHON	PYT315017405	PYT315017404	N/A	N/A	10/18/2012	24 MONTHS	10/18/2014
PYT546007252	PYTHON	PYT315017407	PYT315017406	413618	413531	07/17/2013	24 MONTHS	07/17/2015
PYT546007253	PYTHON	PYT315017408	PYT315017409	44010	854609	03/06/2014	24 MONTHS	03/06/2016
PYT546007254	PYTHON	PYT315017410	PYT315017411	286377	286435	06/27/2013	24 MONTHS	06/27/2015
PYT546007255	PYTHON	PYT315017412	PYT315017413	413620	413543	03/20/2013	24 MONTHS	03/20/2015
PYT546007256	PYTHON	PYT135017415	PYT135017414	413615	413528	03/06/2014	24 MONTHS	03/06/2016
PYT846003010	PYTHON III	PYT831003433	PYT855003837	969246	969129	09/19/2013	24 MONTHS	09/19/2015
PYT846003011	PYTHON III	PYT855003888	PYT831003434	276713	276256	03/20/2013	24 MONTHS	03/20/2015
PYT846003458	PYTHON III	PYT831004079	PYT855004541	077805	077831	03/06/2014	24 MONTHS	03/06/2016
PYT846003459	PYTHON III	PYT381004080	PYT855004542	077808	077822	06/27/2013	24 MONTHS	06/27/2015
PYT846003460	PYTHON III	PYT831004081	N/A	N/A	N/A	10/17/2012	24 MONTHS	10/17/2014
PYT846003644	PYTHON III	PYT831004153	PYT855004836	077880	077834	03/06/2014	24 MONTHS	03/06/2016

**State of Washington  
County of King**

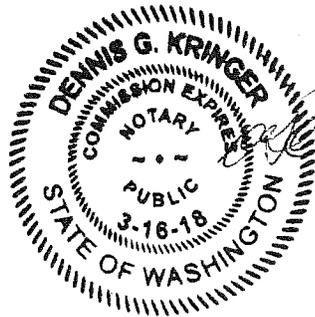
Signed or attested before me on

3/7/2014

by Charles N. Brown

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

- (a) is personally known to me; OR (b) is identified upon oath or affirmation of credible witness personally know to me; OR
- (c) is identified on the basis of identification documents.



*[Signature]*  
Dennis G. Kringer

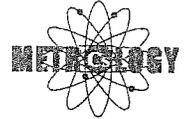
Notary Public in and for the State of Washington,  
Residing in Bellevue, WA  
My appointment expires March 16, 2014

*[Signature]*  
Certified by: Charles N. Brown  
Place: Redmond, WA



Cascade Engineering Services, Inc.

2026 115th Ave NE, Suite 102 Kirkland WA, 98034  
T.425.895.8617, F.425.702.9358



CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION  
OF ELECTRONIC SPEED MEASURING DEVICES

**IRLJ RULE 6.6 EFFECTIVE 10/31/2000**

I, Charles N. Brown do certify under penalty of perjury as follows:

I am employed with Cascade Engineering Services, Inc. (CES) Metrology and Electronic Repair Services, as a Senior Metrology Technician, specialized in Speed Measuring Device (SMD) technology. I have been employed in such a capacity for 32 years. Part of my duties include supervising others in the maintenance and repair of all electronic Doppler and Laser speed measuring devices (SMD's) utilized by the LAKEWOOD POLICE DEPARTMENT

I maintain the following qualifications with respect to SMD(s): Twelve years military experience in electronics, which included the repair and calibration of airborne and ground radar systems. I have over 15 years experience in the repair and calibration of Doppler and Lidar SMD's. I have successfully completed factory training in the repair and service of Laser Speed Detection systems by LTI, Inc. Graduate of Washington Technical Institute. I have successfully completed courses in the repair and calibration of measuring instruments. I am experienced and competent in the principles and fundamental requirements of calibration from DC to Microwave frequencies.

CES Metrology Laboratory is audited periodically by American Association for Laboratory Accreditation (A2LA) to ensure and maintain our ISO/IEC 17025:2005 accreditation and certification, (No. 2560.01), for technical competence. Our laboratory maintains manuals specific to these SMD(s). I am personally familiar with those manuals and how each of the SMD's is designed and operates. The SMD's were calibrated and tested under my direction on the Calibration Date(s) indicated. The unit(s) were serviced to meet or exceed existing performance standards.

All Doppler SMD's are tested as follows: The Vocar HR, handheld Radar certification system, Serial number VHR0510120 is used to calibrate Doppler SMD devices. The Vocar HR is calibrated annually by the manufacturer. The Vocar HR is used to simulate speeds at 5 mph increments from 20 mph to 140mph to verify accuracy in stationary and moving mode. Measurements are taken of the SMD transmit frequency, antenna/receiver sensitivity and any accompanying tuning forks are also tested for accuracy. All other operational functions of the SMD system are then tested for proper performance.

The Laser SMD's transmit a series of highly 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 ft). Since the speed of light is a known value, the distance of the target is determined by calculating how long it takes for the signal to travel to the target and back. This series of measurements allows the SMD to calculate the speed of the target by measuring the distance traveled in time (usually less than a second for a veritable display). The displayed speed is accurate to within  $\pm 1$  MPH.

Lidars tested on or before November 24, 2008 were performed as follows: The Lidars Crystal Oscillator Reference Frequency test confirms that the output frequency of the Lidar is within the accepted range for the output of the device. This test is performed using a Hewlett Packard 53131A Frequency Counter, SN: 3546A10749, which is calibrated annually by Agilent Technologies. The HUD Alignment test confirms the Heads-Up Display is in proper alignment. The fixed distance test verifies that the Lidar correctly measures fixed distances within tolerances set by the Manufacturer. The Delta Distance test then ensures the math microprocessor is working properly. Nominal distances are traceable to Lufkin 0-300ft tape measure, SN: L1709, which is calibrated once every 3 years. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

All Lidars tested after November 24, 2008 will be tested as follows: The Laser Speed Measurement Simulator (LSMS SN: SS000043) is used to simulate a moving target. This is accomplished by detecting the optical output pulses of the laser device and generating artificial return pulses. Different speed values and ranges are simulated by varying the time delays between the input pulses and the return pulses. The LSMS consists of a Digital Delay Generator (DDG), and an optical interface unit (SN: OH000030). The DDG produces precise time delays. The optical interface unit converts the optical energy of the laser instrument into electrical signals which are supplied to the DDG. The optical interface unit also converts the electrical signals received from the DDG into optical energy which is then transmitted to the Lidar. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

Based upon my education, training, experience, and knowledge of these SMD(s), it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a manner that it will produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by 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 produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator.

MUNICIPAL COURT  
APR 15 2014  
FILED

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Laser SMD(s):

**APPLIED CONCEPTS INC. Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
C099952	STALKER DUAL SL	KA073616	KA073625	FA168766	FA268481	09/13/2013	24 MONTHS	09/13/2015
C110304	STALKER DUAL SL	KC076547	KC076551	FA212570	FB315146	10/01/2013	24 MONTHS	10/01/2015
DC110305	STALKER DUAL SL	KC076550	KC076563	FA212572	FB315145	10/01/2013	24 MONTHS	10/01/2015
DP14215	STALKER DSR 2X	KR014265	KC042312	185380	286539	03/06/2014	24 MONTHS	03/06/2016
DP14218	STALKER DSR 2X	KR014335	KC042330	185379	286540	03/06/2014	24 MONTHS	03/06/2016
DP14222	STALKER DSR 2X	KC042309	KR014266	185377	286537	02/10/2014	24 MONTHS	02/10/2016
DP14228	STALKER DSR 2X	KR014333	KC042254	185378	286538	06/27/2013	24 MONTHS	06/27/2015

**DECATUR Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
GHD-04683	GENESIS HANDHELI	HANDHELD	N/A	156143	156034	06/27/2013	24 MONTHS	06/27/2015
GHD-04731	GENESIS HANDHELI	HANDHELD	N/A	156162	N/A	06/27/2012	24 MONTHS	06/27/2014
GHD-04754	GENESIS HANDHELI	HANDHELD	N/A	155997	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04811	GENESIS HANDHELI	HANDHELD	N/A	156087	156047	03/06/2014	24 MONTHS	03/06/2016
GHD-04823	GENESIS HANDHELI	HANDHELD	N/A	156158	156015	03/20/2013	24 MONTHS	03/20/2015
GHD-04824	GENESIS HANDHELI	HANDHELD	N/A	156123	170699	03/06/2014	24 MONTHS	03/06/2016
GHD-04826	GENESIS HANDHELI	HANDHELD	N/A	55528	51531	03/06/2014	24 MONTHS	03/06/2016
GHD-04828	GENESIS HANDHELI	HANDHELD	N/A	6728	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04831	GENESIS HANDHELI	HANDHELD	N/A	156072	156002	06/27/2013	24 MONTHS	06/27/2015
GHD-04890	GENESIS HANDHELI	HANDHELD	N/A	47291	N/A	01/03/2014	24 MONTHS	01/03/2016
GHD-04897	GENESIS HANDHELI	HANDHELD	N/A	156170	156031	03/20/2013	24 MONTHS	03/20/2015

**KUSTOM Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
PL16381	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
PL19264	PRO LASER III	N/A	N/A	N/A	N/A	03/20/2013	12 MONTHS	03/20/2014
PL19660	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL19662	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
21056	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
31986	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL31987	PRO LASER III	N/A	N/A	N/A	N/A	01/03/2014	12 MONTHS	01/03/2015
PL31988	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2012	12 MONTHS	06/27/2013
PL31990	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
PL31991	PRO LASER III	N/A	N/A	N/A	N/A	07/17/2013	12 MONTHS	

**LASER TECHNOLOGY INC. Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
TJ000427	LTI 20-20	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000798	LTI 20-20 TRUSPEEI	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
TJ000799	LTI 20-20 TRUSPEEI	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
TJ000801	LTI 20-20 TRUSPEEI	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000813	LTI 20-20 TRUSPEEI	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014

**LTI Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
I05797/TJ000195	LTI 20/20 TRU SPEEI	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
TJ000191	LTI 20/20 TRU SPEEI	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000192	LTI 20/20 TRU SPEEI	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000194	LTI 20/20 TRU SPEEI	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Laser SMD(s):

**MPH INDUSTRIES Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
40	VINDICATOR	HANDHELD	N/A	298388	N/A	03/20/2013	24 MONTHS	03/20/2015
244	VINDICATOR	N/A	N/A	15233	N/A	06/27/2012	24 MONTHS	06/27/2014
5245	VINDICATOR	N/A	N/A	6887	N/A	03/06/2014	24 MONTHS	03/06/2016
5246	VINDICATOR	HANDHELD	N/A	6886	N/A	03/20/2013	24 MONTHS	03/20/2015
664008614	BEE III	BEN653021584	BEN653021585	392233	392408	03/20/2013	24 MONTHS	03/20/2015
664008615	BEE III	BEN653021587	BEN653021586	392276	392395	09/04/2013	24 MONTHS	09/04/2015
664008616	BEE III	BEN653021589	BEN653021588	392248	392252	03/20/2013	24 MONTHS	03/20/2015
930002311	BEE III	BEN65303004	BEN65303005	298523	298529	03/06/2014	24 MONTHS	03/06/2016
930002312	BEE III	BEN653013007	BEN653013006	076340	075662	03/21/2012	24 MONTHS	03/21/2014
930002313	BEE III	BEN653013004	BEN653013005	965581	965546	03/06/2014	24 MONTHS	03/06/2016
930002314	BEE III	BEN653013011	BEN653013010	965583	965516	06/27/2013	24 MONTHS	06/27/2015
930002315	BEE III	BEN653013012	BEN653013013	41523	43437	06/27/2013	24 MONTHS	06/27/2015
BEE109002087	BEE 36	BEE113001613	BEE113000605	392245	392393	03/06/2014	24 MONTHS	03/06/2016
BEE664000372	BEE III	BEN653000920	BEN653000919	298611	298681	03/06/2014	24 MONTHS	03/06/2016
BEE664008617	BEE 36	BEE113001613	BEE113000605	392245	392393	03/06/2014	24 MONTHS	03/06/2016
BEE665000388	BEE	BEN653000917	BEN653000918	7477797	749718	06/27/2012	24 MONTHS	06/27/2014
BEE706000288	BEE III	BEN653000920	BEN653000919	076340	075662	03/06/2014	24 MONTHS	03/06/2016
HHM556000951	SPEED GUN	HANDHELD	N/A	966359	070908	07/26/2013	24 MONTHS	07/26/2015
HHM556000952	SPEED GUN	HANDHELD	N/A	964957	854604	03/21/2012	24 MONTHS	03/21/2014
HHS568000846	Z-15	HANDHELD	N/A	298375	N/A	04/25/2012	24 MONTHS	04/25/2014
HHS568000847	Z-15	HANDHELD	N/A	070704	N/A	03/20/2013	24 MONTHS	03/20/2015
PYT546000033	PYTHON II	PYT315004668	BEE 113001806	263407	204532	03/06/2014	24 MONTHS	03/06/2016
PYT546001907	PYTHON	PYT315008028	PYT315008029	55522	51534	06/27/2012	24 MONTHS	06/27/2014
PYT546003677	PYTHON II	PYT315011063	PYT315011064	286377	286435	04/25/2012	24 MONTHS	04/25/2014
PYT546007249	PYTHON	PYT315017400	PYT315017401	N/A	N/A	10/17/2012	24 MONTHS	10/17/2014
PYT546007250	PYTHON II	PYT315017402	PYT315017403	413696	413526	12/17/2013	24 MONTHS	12/17/2015
PYT546007251	PYTHON	PYT315017405	PYT315017404	N/A	N/A	10/18/2012	24 MONTHS	10/18/2014
T546007252	PYTHON	PYT315017407	PYT315017406	413618	413531	07/17/2013	24 MONTHS	07/17/2015
T546007253	PYTHON	PYT315017408	PYT315017409	44010	854609	03/06/2014	24 MONTHS	03/06/2016
PYT546007254	PYTHON	PYT315017410	PYT315017411	286377	286435	06/27/2013	24 MONTHS	06/27/2015
PYT546007255	PYTHON	PYT315017412	PYT315017413	413620	413543	03/20/2013	24 MONTHS	03/20/2015
PYT546007256	PYTHON	PYT135017415	PYT135017414	413615	413528	03/06/2014	24 MONTHS	03/06/2016
PYT846003010	PYTHON III	PYT831003433	PYT855003837	969246	969129	09/19/2013	24 MONTHS	09/19/2015
PYT846003458	PYTHON III	PYT831004079	PYT855004541	077805	077831	03/06/2014	24 MONTHS	03/06/2016
PYT846003459	PYTHON III	PYT831004080	PYT855004542	077808	077822	06/27/2013	24 MONTHS	06/27/2015
PYT846003460	PYTHON III	PYT831004081	N/A	N/A	N/A	10/17/2012	24 MONTHS	10/17/2014
PYT846003644	PYTHON III	PYT831004153	PYT855004836	077880	077834	03/06/2014	24 MONTHS	03/06/2016

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

**APPLIED CONCEPTS INC. Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
DP013353	STALKER DSR 2X	KC0039059	KR013231	182916	282408	03/06/2014	24 MONTHS	03/06/2016
DP14191	STALKER DSR 2X	KC042327	KR014273	185376	286536	03/06/2014	24 MONTHS	03/06/2016

**MPH INDUSTRIES Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
PYT846003011	PYTHON III	PYT855003888	PYT831003434	276713	276256	03/20/2013	24 MONTHS	03/20/2015

State of Washington

County of King

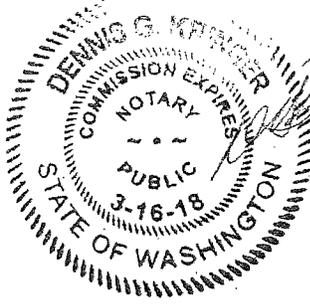
Signed or attested before me on

4/7/14

by Charles N. Brown

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

- (a) is personally known to me; OR (b) is identified upon oath or affirmation of credible witness personally know to me; OR
- (c) is identified on the basis of identification documents.



Dennis G. Kringer

Notary Public in and for the State of Washington,  
Residing in Bellevue, WA

My appointment expires March 16, 2018

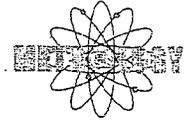
Certified by: Charles N. Brown

Place: Redmond, WA



Cascade Engineering Services, Inc.

026 115th Ave NE, Suite 102 Kirkland WA, 98034  
t25.895.8617, F.425.702.9358



CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION  
OF ELECTRONIC SPEED MEASURING DEVICES

**IRLJ RULE 6.6 EFFECTIVE 10/31/2000**

I, Charles N. Brown do certify under penalty of perjury as follows:

I am employed with Cascade Engineering Services, Inc. (CES) Metrology and Electronic Repair Services, as a Senior Metrology Technician, specialized in Speed Measuring Device (SMD) technology. I have been employed in such a capacity for 32 years. Part of my duties include supervising others in the maintenance and repair of all electronic Doppler and Laser speed measuring devices (SMD's) utilized by the LAKEWOOD POLICE DEPARTMENT

I maintain the following qualifications with respect to SMD(s): Twelve years military experience in electronics, which included the repair and calibration of airborne and ground radar systems. I have over 15 years experience in the repair and calibration of Doppler and Lidar SMD's. I have successfully completed factory training in the repair and service of Laser Speed Detection systems by LTI, Inc. Graduate of Washington Technical Institute. I have successfully completed courses in the repair and calibration of measuring instruments. I am experienced and competent in the principles and fundamental requirements of calibration from DC to Microwave frequencies.

CES Metrology Laboratory is audited periodically by American Association for Laboratory Accreditation (A2LA) to ensure and maintain our ISO/IEC 17025:2005 accreditation and certification, (No. 2560.01), for technical competence. Our laboratory maintains manuals specific to these SMD(s). I am personally familiar with those manuals and how each of the SMD's is designed and operates. The SMD's were calibrated and tested under my direction on the Calibration Date(s) indicated. The unit(s) were serviced to meet or exceed existing performance standards.

All Doppler SMD's are tested as follows: The Vocar HR, handheld Radar certification system, Serial number VHR0510120 is used to calibrate Doppler SMD devices. The Vocar HR is calibrated annually by the manufacturer. The Vocar HR is used to simulate speeds at 5 mph increments from 20 mph to 140 mph to verify accuracy in stationary and moving mode. Measurements are taken of the SMD transmit frequency; antenna/receiver sensitivity and any accompanying tuning forks are also tested for accuracy. All other operational functions of the SMD system are then tested for proper performance.

The Laser SMD's transmit a series of highly 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 ft). Since the speed of light is a known value, the distance of the target is determined by calculating how long it takes for the signal to travel to the target and back. This series of measurements allows the SMD to calculate the speed of the target by measuring the distance traveled in time (usually less than a second for a veritable display). The displayed speed is accurate to within  $\pm 1$  MPH.

Lidars tested on or before November 24, 2008 were performed as follows: The Lidars Crystal Oscillator Reference Frequency test confirms that the output frequency of the Lidar is within the accepted range for the output of the device. This test is performed using a Hewlett Packard 53131A Frequency counter, SN: 3546A10749, which is calibrated annually by Agilent Technologies. The HUD Alignment test confirms the Heads-Up Display is in proper alignment. The fixed distance test verifies that the Lidar correctly measures fixed distances within tolerances set by the Manufacturer. The Delta Distance test then ensures the math microprocessor is working properly. Nominal distances are traceable to Lufkin 0-300ft tape measure, SN: L1709, which is calibrated once every 3 years. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

All Lidars tested after November 24, 2008 will be tested as follows: The Laser Speed Measurement Simulator (LSMS SN: SS000043) is used to simulate a moving target. This is accomplished by detecting the optical output pulses of the laser device and generating artificial return pulses. Different speed values and ranges are simulated by varying the time delays between the input pulses and the return pulses. The LSMS consists of a Digital Delay Generator (DDG), and an optical interface unit (SN: OH000030). The DDG produces precise time delays. The optical interface unit converts the optical energy of the laser instrument into electrical signals which are supplied to the DDG. The optical interface unit also converts the electrical signals received from the DDG into optical energy which is then transmitted to the Lidar. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

Based upon my education, training, experience, and knowledge of these SMD(s), it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a manner that it will produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by 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 produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator.

MUNICIPAL COURT  
JUL 24 2014  
FILED

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Laser SMD(s):

**KUSTOM Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
LP01740	PRO-LITE	N/A	N/A	N/A	N/A	08/12/2011	12 MONTHS	08/12/2012
LP01962	PRO-LITE	N/A	N/A	N/A	N/A	03/22/2011	12 MONTHS	03/22/2012
LP02215	PRO-LITE	N/A	N/A	N/A	N/A	04/21/2009	12 MONTHS	04/21/2010
LP03716	PRO-LITE +	N/A	N/A	N/A	N/A	03/28/2011	12 MONTHS	03/28/2012
PL16381	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
PL19264	PRO LASER III	N/A	N/A	N/A	N/A	06/18/2014	12 MONTHS	06/18/2015
PL19660	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL19662	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL21056	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL31986	PRO LASER III	N/A	N/A	N/A	N/A	06/18/2014	12 MONTHS	06/18/2015
PL31987	PRO LASER III	N/A	N/A	N/A	N/A	01/03/2014	12 MONTHS	01/03/2015
PL31988	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2012	12 MONTHS	06/27/2013
PL31990	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
PL31991	PRO LASER III	N/A	N/A	N/A	N/A	07/17/2013	12 MONTHS	

**LASER TECHNOLOGY INC Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
I05797/TJ000195	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	06/18/2014	12 MONTHS	06/18/2015
TJ000191	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000192	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000194	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000427	LTI 20-20	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000798	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
TJ000799	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	06/18/2014	12 MONTHS	06/18/2015
TJ000801	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000813	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	06/18/2014	12 MONTHS	06/18/2015

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

**APPLIED CONCEPTS INC. Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
DC099952	STALKER DUAL SL	KA073616	KA073625	FA168766	FA268481	09/13/2013	24 MONTHS	09/13/2015
DC110304	STALKER DUAL SL	KC076547	KC076551	FA212570	FB315146	10/01/2013	24 MONTHS	10/01/2015
DC110305	STALKER DUAL SL	KC076550	KC076563	FA212572	FB315145	10/01/2013	24 MONTHS	10/01/2015
DP013353	STALKER DSR 2X	KC0039059	KR013231	182916	282408	03/06/2014	24 MONTHS	03/06/2016
DP14191	STALKER DSR 2X	KC042327	KR014273	185376	286536	03/06/2014	24 MONTHS	03/06/2016
DP14215	STALKER DSR 2X	KR014265	KC042312	185380	286539	03/06/2014	24 MONTHS	03/06/2016
DP14218	STALKER DSR 2X	KR014335	KC042330	185379	286540	03/06/2014	24 MONTHS	03/06/2016
DP14222	STALKER DSR 2X	KC042309	KR014266	185377	286537	02/10/2014	24 MONTHS	02/10/2016
DP14228	STALKER DSR 2X	KR014333	KC042254	185378	286538	06/27/2013	24 MONTHS	06/27/2015

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

DECATUR Manufacturer's the following SMD(s)

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
GHD-04683	GENESIS HANDHELI	HANDHELD	N/A	156143	156034	06/27/2013	24 MONTHS	06/27/2015
GHD-04684	GENESIS HANDHELI	HANDHELD	N/A	156120	156046	06/02/2011	24 MONTHS	06/02/2013
GHD-04731	GENESIS HANDHELI	HANDHELD	N/A	156162	N/A	06/18/2014	24 MONTHS	06/18/2016
GHD-04737	GENESIS HANDHELI	HANDHELD	N/A	156150	156005	10/05/2011	24 MONTHS	10/05/2013
GHD-04754	GENESIS HANDHELI	HANDHELD	N/A	155997	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04811	GENESIS HANDHELI	HANDHELD	N/A	156087	156047	03/06/2014	24 MONTHS	03/06/2016
GHD-04823	GENESIS HANDHELI	HANDHELD	N/A	156158	156015	03/20/2013	24 MONTHS	03/20/2015
GHD-04824	GENESIS HANDHELI	HANDHELD	N/A	156123	170699	03/06/2014	24 MONTHS	03/06/2016
GHD-04826	GENESIS HANDHELI	HANDHELD	N/A	55528	51531	03/06/2014	24 MONTHS	03/06/2016
GHD-04828	GENESIS HANDHELI	HANDHELD	N/A	6728	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04829	GENESIS HANDHELI	HANDHELD	N/A	155974	N/A	03/22/2011	24 MONTHS	03/22/2013
GHD-04831	GENESIS HANDHELI	HANDHELD	N/A	156072	156002	06/27/2013	24 MONTHS	06/27/2015
GHD-04864	GENESIS HANDHELI	HANDHELD	N/A	156111	155998	07/08/2014	24 MONTHS	07/08/2016
GHD-04866	GENESIS HANDHELI	HANDHELD	N/A	156142	156062	10/05/2011	24 MONTHS	10/05/2013
GHD-04870	GENESIS HANDHELI	HANDHELD	N/A	156088	156060	11/01/2011	24 MONTHS	11/01/2013
GHD-04890	GENESIS HANDHELI	HANDHELD	N/A	47291	N/A	01/03/2014	24 MONTHS	01/03/2016
GHD-04891	GENESIS HANDHELI	HANDHELD	N/A	156101	155975	10/05/2011	24 MONTHS	10/05/2013
GHD-04897	GENESIS HANDHELI	HANDHELD	N/A	156170	156031	03/20/2013	24 MONTHS	03/20/2015
I01484/GHD-04890	GENESIS DIRECTIOI	HANDHELD	N/A	156169	156049	10/13/2009	24 MONTHS	10/13/2011

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

MPH INDUSTRIES Manufacturer's the following SMD(s)

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
5240	VINDICATOR	HANDHELD	N/A	298388	N/A	03/20/2013	24 MONTHS	03/20/2015
5244	VINDICATOR	N/A	N/A	15233	N/A	06/27/2012	24 MONTHS	06/27/2014
5245	VINDICATOR	N/A	N/A	6887	N/A	03/06/2014	24 MONTHS	03/06/2016
5246	VINDICATOR	HANDHELD	N/A	6886	N/A	03/20/2013	24 MONTHS	03/20/2015
664008614	BEE III	BEN653021584	BEN653021585	392233	392408	03/20/2013	24 MONTHS	03/20/2015
664008615	BEE III	BEN653021587	BEN653021586	392276	392395	09/04/2013	24 MONTHS	09/04/2015
664008616	BEE III	BEN653021589	BEN653021588	392248	392252	03/20/2013	24 MONTHS	03/20/2015
930002311	BEE III	BEN65303004	BEN65303005	298529	298529	03/06/2014	24 MONTHS	03/06/2016
930002312	BEE III	BEN653013007	BEN653013006	076340	075662	03/21/2012	24 MONTHS	03/21/2014
930002313	BEE III	BEN653013004	BEN653013005	965581	965546	03/06/2014	24 MONTHS	03/06/2016
930002314	BEE III	BEN653013011	BEN653013010	965583	965516	06/27/2013	24 MONTHS	06/27/2015
930002315	BEE III	BEN653013012	BEN653013013	965532	965523	06/18/2014	24 MONTHS	06/18/2016
BEE109002087	BEE 36	BEE113001613	BEE113000605	392245	392393	03/06/2014	24 MONTHS	03/06/2016
BEE245001233	BEE 36	BEE113001613	BEE113000605	964961	854485	03/22/2011	24 MONTHS	03/22/2013
BEE245001850	BEE	BEN113002154	BEE113002155	N/A	N/A	07/13/2010	24 MONTHS	
BEE664000372	BEE III	BEN653000920	BEN653000919	298611	298681	03/06/2014	24 MONTHS	03/06/2016
BEE664008617	BEE 36	BEE113001613	BEE113000605	392245	392393	03/06/2014	24 MONTHS	03/06/2016
BEE665000388	BEE	BEN653000917	BEN653000918	7477797	749718	06/27/2012	24 MONTHS	06/27/2014
BEE706000288	BEE III	BEN653000920	BEN653000919	076340	075662	03/06/2014	24 MONTHS	03/06/2016
ENF686000136	ENFORCER	BEN653000921	N/A	298523	298529	07/13/2010	24 MONTHS	07/13/2012
HHM556000951	SPEED GUN	HANDHELD	N/A	966359	070908	07/26/2013	24 MONTHS	07/26/2015
HHM556000952	SPEED GUN	HANDHELD	N/A	964957	854604	06/18/2014	24 MONTHS	06/18/2016
HHS568000845	Z-15	HANDHELD	N/A	6876	N/A	03/22/2011	24 MONTHS	03/22/2013
HHS568000846	Z-15	HANDHELD	N/A	298375	N/A	04/25/2012	24 MONTHS	04/25/2014
HHS568000847	Z-15	HANDHELD	N/A	070704	N/A	03/20/2013	24 MONTHS	03/20/2015
HHS569000666	Z-25	HANDHELD	N/A	969332	969196	06/02/2011	24 MONTHS	06/02/2013
PYT546000033	PYTHON II	PYT315004668	BEE 113001606	263407	204532	03/06/2014	24 MONTHS	03/06/2016
PYT546001907	PYTHON	PYT315008028	PYT315008029	55522	51534	06/27/2012	24 MONTHS	06/27/2014
PYT546003677	PYTHON II	PYT315011063	PYT315011064	286377	286435	04/25/2012	24 MONTHS	04/25/2014
PYT546007249	PYTHON	PYT315017400	PYT315017401	413687	413546	06/18/2014	24 MONTHS	06/18/2016
PYT546007250	PYTHON II	PYT315017402	PYT315017403	413696	413526	12/17/2013	24 MONTHS	12/17/2015
PYT546007251	PYTHON	PYT315017405	PYT315017404	N/A	N/A	10/18/2012	24 MONTHS	10/18/2014
PYT546007252	PYTHON	PYT315017407	PYT315017406	413618	413531	07/17/2013	24 MONTHS	07/17/2015
PYT546007253	PYTHON	PYT315017408	PYT315017409	44010	854609	03/06/2014	24 MONTHS	03/06/2016
PYT546007254	PYTHON	PYT315017410	PYT315017411	286377	286435	06/27/2013	24 MONTHS	06/27/2015
PYT546007255	PYTHON	PYT315017412	PYT315017413	413620	413543	03/20/2013	24 MONTHS	03/20/2015
PYT546007256	PYTHON	PYT315017415	PYT315017414	413615	413528	03/06/2014	24 MONTHS	03/06/2016
PYT846003010	PYTHON III	PYT831003433	PYT855003837	969246	969129	09/19/2013	24 MONTHS	09/19/2015
PYT846003011	PYTHON III	PYT855003888	PYT831003434	276713	276256	03/20/2013	24 MONTHS	03/20/2015
PYT846003458	PYTHON III	PYT831004079	PYT855004541	077805	077831	03/06/2014	24 MONTHS	03/06/2016
PYT846003459	PYTHON III	PYT381004080	PYT855004542	077808	077822	06/27/2013	24 MONTHS	06/27/2015
PYT846003460	PYTHON III	PYT831004081	N/A	076668	077826	06/18/2014	24 MONTHS	06/18/2016
PYT846003644	PYTHON III	PYT831004153	PYT855004836	077880	077834	03/06/2014	24 MONTHS	03/06/2016

State of Washington  
County of King

Signed or attested before me on

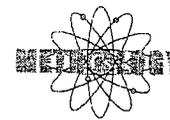
7/8/14 by Charles N. Brown  
I have satisfactory evidence that the person described in this document:  
(a) is personally known to me; OR (b) is identified upon oath or affirmation of credible witness personally know to me; OR  
(c) is identified on the basis of identification documents.



*Dennis G. Kringer*  
Dennis G. Kringer

Notary Public in and for the State of Washington,  
Residing in Bellevue, WA  
My appointment expires March 16, 2018

*Charles N. Brown*  
Certified by: Charles N. Brown  
Place: Redmond, WA



CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION  
OF ELECTRONIC SPEED MEASURING DEVICES

IRLJ RULE 6.6 EFFECTIVE 10/31/2000

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CES Metrology Laboratory is audited periodically by American Association for Laboratory Accreditation (A2LA) to ensure and maintain our ISO/IEC 17025:2005 accreditation and certification, (No. 2560.01), for technical competence. Our laboratory maintains manuals specific to these SMD(s). I am personally familiar with those manuals and how each of the SMD's is designed and operates. The SMD's were calibrated and tested under my direction on the Calibration Date(s) indicated. The unit(s) were serviced to meet or exceed existing performance standards.

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All Lidars tested on or before November 24, 2008 were performed as follows: The Lidars Crystal Oscillator Reference Frequency test confirms that the output frequency of the Lidar is within the accepted range for the output of the device. This test is performed using a Hewlett Packard 53131A Frequency Counter, SN: 3546A10749, which is calibrated annually by Agilent Technologies. The HUD Alignment test confirms the Heads-Up Display is in proper alignment. The fixed distance test verifies that the Lidar correctly measures fixed distances within tolerances set by the Manufacturer. The Delta Distance test then ensures the math microprocessor is working properly. Nominal distances are traceable to Lufkin 0-300ft tape measure, SN: L1709, which is calibrated once every 3 years. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

All Lidars tested after November 24, 2008 will be tested as follows: The Laser Speed Measurement Simulator (LSMS SN: SS000043) is used to simulate a moving target. This is accomplished by detecting the optical output pulses of the laser device and generating artificial return pulses. Different speed values and ranges are simulated by varying the time delays between the input pulses and the return pulses. The LSMS consists of a Digital Delay Generator (DDG), and an optical interface unit (SN: OH000030). The DDG produces precise time delays. The optical interface unit converts the optical energy of the laser instrument into electrical signals which are supplied to the DDG. The optical interface unit also converts the electrical signals received from the DDG into optical energy which is then transmitted to the Lidar. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

Based upon my education, training, experience, and knowledge of these SMD(s), it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a manner that it will produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by 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 produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator.

LC FILED

SEP 25 2014

MUNICIPAL COURT

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Laser SMD(s):

**KUSTOM Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
LP01740	PRO-LITE	N/A	N/A	N/A	N/A	08/12/2011	12 MONTHS	08/12/2012
LP01962	PRO-LITE	N/A	N/A	N/A	N/A	03/22/2011	12 MONTHS	03/22/2012
LP02215	PRO-LITE	N/A	N/A	N/A	N/A	04/21/2009	12 MONTHS	04/21/2010
LP03716	PRO-LITE +	N/A	N/A	N/A	N/A	03/28/2011	12 MONTHS	03/28/2012
PL16381	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
PL19264	PRO LASER III	N/A	N/A	N/A	N/A	06/18/2014	12 MONTHS	06/18/2015
PL19660	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL19662	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL21056	PRO LASER III	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
PL31986	PRO LASER III	N/A	N/A	N/A	N/A	06/18/2014	12 MONTHS	06/18/2015
PL31987	PRO LASER III	N/A	N/A	N/A	N/A	01/03/2014	12 MONTHS	01/03/2015
PL31988	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2012	12 MONTHS	06/27/2013
PL31990	PRO LASER III	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014

**LASER TECHNOLOGY INC Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
I05797/TJ000195	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	06/18/2014	12 MONTHS	06/18/2015
TJ000191	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000192	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000194	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000427	LTI 20-20	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000798	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	06/27/2013	12 MONTHS	06/27/2014
TJ000799	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	06/18/2014	12 MONTHS	06/18/2015
TJ000801	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	03/06/2014	12 MONTHS	03/06/2015
TJ000813	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	06/18/2014	12 MONTHS	06/18/2015

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

**APPLIED CONCEPTS INC. Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
DC099952	STALKER DUAL SL	KA073616	KA073625	FA168766	FA268481	09/13/2013	24 MONTHS	09/13/2015
DC110304	STALKER DUAL SL	KC076547	KC076551	FA212570	FB315146	10/01/2013	24 MONTHS	10/01/2015
DC110305	STALKER DUAL SL	KC076550	KC076563	FA212572	FB315145	10/01/2013	24 MONTHS	10/01/2015
DP013353	STALKER DSR 2X	KC0039059	KR013231	182916	282408	03/06/2014	24 MONTHS	03/06/2016
DP14191	STALKER DSR 2X	KC042327	KR014273	185376	286536	03/06/2014	24 MONTHS	03/06/2016
DP14215	STALKER DSR 2X	KR014265	KC042312	185380	286539	03/06/2014	24 MONTHS	03/06/2016
DP14218	STALKER DSR 2X	KR014335	KC042330	185379	286540	03/06/2014	24 MONTHS	03/06/2016
DP14222	STALKER DSR 2X	KC042309	KR014266	185377	286537	02/10/2014	24 MONTHS	02/10/2016
DP14228	STALKER DSR 2X	KR014333	KC042254	185378	286538	06/27/2013	24 MONTHS	06/27/2015

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

DECATUR Manufacturer's the following SMD(s)

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
GHD-04683	GENESIS HANDHELI	HANDHELD	N/A	156143	156034	06/27/2013	24 MONTHS	06/27/2015
GHD-04684	GENESIS HANDHELI	HANDHELD	N/A	156120	156046	06/02/2011	24 MONTHS	06/02/2013
GHD-04731	GENESIS HANDHELI	HANDHELD	N/A	156162	N/A	06/18/2014	24 MONTHS	06/18/2016
GHD-04737	GENESIS HANDHELI	HANDHELD	N/A	156150	156005	10/05/2011	24 MONTHS	10/05/2013
GHD-04754	GENESIS HANDHELI	HANDHELD	N/A	155997	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04811	GENESIS HANDHELI	HANDHELD	N/A	156087	156047	03/06/2014	24 MONTHS	03/06/2016
GHD-04823	GENESIS HANDHELI	HANDHELD	N/A	156158	156015	03/20/2013	24 MONTHS	03/20/2015
GHD-04824	GENESIS HANDHELI	HANDHELD	N/A	156123	170699	03/06/2014	24 MONTHS	03/06/2016
GHD-04826	GENESIS HANDHELI	HANDHELD	N/A	55528	51531	03/06/2014	24 MONTHS	03/06/2016
GHD-04828	GENESIS HANDHELI	HANDHELD	N/A	6728	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04829	GENESIS HANDHELI	HANDHELD	N/A	155974	N/A	03/22/2011	24 MONTHS	03/22/2013
GHD-04831	GENESIS HANDHELI	HANDHELD	N/A	156072	156002	06/27/2013	24 MONTHS	06/27/2015
GHD-04864	GENESIS HANDHELI	HANDHELD	N/A	156111	155998	07/08/2014	24 MONTHS	07/08/2016
GHD-04866	GENESIS HANDHELI	HANDHELD	N/A	156142	156062	10/05/2011	24 MONTHS	10/05/2013
GHD-04870	GENESIS HANDHELI	HANDHELD	N/A	156088	156060	11/01/2011	24 MONTHS	11/01/2013
GHD-04890	GENESIS HANDHELI	HANDHELD	N/A	47291	N/A	01/03/2014	24 MONTHS	01/03/2016
GHD-04891	GENESIS HANDHELI	HANDHELD	N/A	156101	155975	10/05/2011	24 MONTHS	10/05/2013
GHD-04897	GENESIS HANDHELI	HANDHELD	N/A	156170	156031	03/20/2013	24 MONTHS	03/20/2015
101484/GHD-04890	GENESIS DIRECTIOI	HANDHELD	N/A	156169	156049	10/13/2009	24 MONTHS	10/13/2011

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

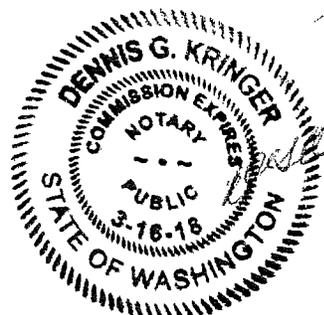
**MPH INDUSTRIES Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
5240	VINDICATOR	HANDHELD	N/A	298388	N/A	03/20/2013	24 MONTHS	03/20/2015
5244	VINDICATOR	N/A	N/A	15233	N/A	06/27/2012	24 MONTHS	06/27/2014
5245	VINDICATOR	N/A	N/A	6887	N/A	03/06/2014	24 MONTHS	03/06/2016
5246	VINDICATOR	HANDHELD	N/A	6886	N/A	03/20/2013	24 MONTHS	03/20/2015
664008614	BEE III	BEN653021584	BEN653021585	392233	392408	03/20/2013	24 MONTHS	03/20/2015
664008615	BEE III	BEN653021587	BEN653021586	392276	392395	09/04/2013	24 MONTHS	09/04/2015
664008616	BEE III	BEN653021589	BEN653021588	392248	392252	03/20/2013	24 MONTHS	03/20/2015
930002311	BEE III	BEN65303004	BEN65303005	298523	298529	03/06/2014	24 MONTHS	03/06/2016
930002312	BEE III	BEN653013007	BEN653013006	076340	075662	03/21/2012	24 MONTHS	03/21/2014
930002313	BEE III	BEN653013004	BEN653013005	965581	965546	03/06/2014	24 MONTHS	03/06/2016
930002314	BEE III	BEN653013011	BEN653013010	965583	965516	06/27/2013	24 MONTHS	06/27/2015
930002315	BEE III	BEN653013012	BEN653013013	965532	965523	06/18/2014	24 MONTHS	06/18/2016
BEE109002087	BEE 36	BEE113001613	BEE113000605	392245	392393	03/06/2014	24 MONTHS	03/06/2016
BEE245001233	BEE 36	BEE113001613	BEE113000605	964961	854485	03/22/2011	24 MONTHS	03/22/2013
BEE664000372	BEE III	BEN653000920	BEN653000919	298611	298681	03/06/2014	24 MONTHS	03/06/2016
BEE6640008617	BEE 36	BEE113001613	BEE113000605	392245	392393	03/06/2014	24 MONTHS	03/06/2016
BEE665000388	BEE	BEN653000917	BEN653000918	7477797	749718	06/27/2012	24 MONTHS	06/27/2014
BEE706000288	BEE III	BEN653000920	BEN653000919	076340	075662	03/06/2014	24 MONTHS	03/06/2016
ENF686000136	ENFORCER	BEN653000921	N/A	298523	298529	07/13/2010	24 MONTHS	07/13/2012
HHM556000951	SPEED GUN	HANDHELD	N/A	966359	070908	07/26/2013	24 MONTHS	07/26/2015
HHM556000952	SPEED GUN	HANDHELD	N/A	964957	854604	06/18/2014	24 MONTHS	06/18/2016
HHS568000845	Z-15	HANDHELD	N/A	6876	N/A	03/22/2011	24 MONTHS	03/22/2013
HHS568000846	Z-15	HANDHELD	N/A	298375	N/A	04/25/2012	24 MONTHS	04/25/2014
HHS568000847	Z-15	HANDHELD	N/A	070704	N/A	03/20/2013	24 MONTHS	03/20/2015
HHS569000666	Z-25	HANDHELD	N/A	969332	969196	06/02/2011	24 MONTHS	06/02/2013
PYT546000033	PYTHON II	PYT315004668	BEE 113001606	263407	204532	03/06/2014	24 MONTHS	03/06/2016
PYT546001907	PYTHON	PYT315008028	PYT315008029	55522	51534	08/19/2014	24 MONTHS	08/19/2016
PYT546003677	PYTHON II	PYT315011063	PYT315011064	286377	286435	04/25/2012	24 MONTHS	04/25/2014
PYT546007249	PYTHON	PYT315017400	PYT315017401	413687	413546	06/18/2014	24 MONTHS	06/18/2016
PYT546007250	PYTHON II	PYT315017402	PYT315017403	413696	413526	12/17/2013	24 MONTHS	12/17/2015
PYT546007251	PYTHON	PYT315017405	PYT315017404	N/A	N/A	10/18/2012	24 MONTHS	10/18/2014
PYT546007252	PYTHON	PYT315017407	PYT315017406	413618	413531	07/17/2013	24 MONTHS	07/17/2015
PYT546007253	PYTHON	PYT315017408	PYT315017409	44010	854609	03/06/2014	24 MONTHS	03/06/2016
PYT546007254	PYTHON	PYT315017410	PYT315017411	286377	286435	06/27/2013	24 MONTHS	06/27/2015
PYT546007255	PYTHON	PYT315017412	PYT315017413	413620	413543	03/20/2013	24 MONTHS	03/20/2015
PYT546007256	PYTHON	PYT135017415	PYT135017414	413615	413528	03/06/2014	24 MONTHS	03/06/2016
PYT846003010	PYTHON III	PYT831003433	PYT855003837	969246	969129	09/19/2013	24 MONTHS	09/19/2015
PYT846003011	PYTHON III	PYT855003888	PYT831003434	276713	276256	03/20/2013	24 MONTHS	03/20/2015
PYT846003458	PYTHON III	PYT831004079	PYT855004541	077805	077831	03/06/2014	24 MONTHS	03/06/2016
PYT846003459	PYTHON III	PYT381004080	PYT855004542	077808	077822	09/17/2014	24 MONTHS	09/17/2016
PYT846003460	PYTHON III	PYT831004081	N/A	076668	077826	06/18/2014	24 MONTHS	06/18/2016
PYT846003644	PYTHON III	PYT831004153	PYT855004836	077880	077834	03/06/2014	24 MONTHS	03/06/2016

**State of Washington  
County of King**

Signed or attested before me on

9/17/14 by Charles N. Brown  
I have satisfactory evidence that the person described in this document:  
(a) is personally known to me; OR (b) is identified upon oath or affirmation of credible witness personally know to me; OR  
(c) is identified on the basis of Identification documents.



*Dennis G. Kringer*  
Dennis G. Kringer

Notary Public in and for the State of Washington,  
Residing in Bellevue, WA  
My appointment expires March 16, 2018

*Charles N. Brown*  
Certified by: Charles N. Brown  
Place: Redmond, WA

NOV 14 2014

NOV 10 REC'D



 Cascade Engineering Services, Inc. **FILED**

12026 115th Ave NE, Suite 102 Kirkland WA, 98034

T.425.895.8617, F.425.702.9358

 CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION  
 OF ELECTRONIC SPEED MEASURING DEVICES

**IRLJ RULE 6.6 EFFECTIVE 10/31/2000**

I, Charles N. Brown do certify under penalty of perjury as follows:

I am employed with Cascade Engineering Services, Inc. (CES) Metrology and Electronic Repair Services, as a Senior Metrology Technician, specialized in Speed Measuring Device (SMD) technology. I have been employed in such a capacity for 32 years. Part of my duties include supervising others in the maintenance and repair of all electronic Doppler and Laser speed measuring devices (SMD's) utilized by the WOOD POLICE DEPARTMENT

I maintain the following qualifications with respect to SMD(s): Twelve years military experience in electronics, which included the repair and calibration of airborne and ground radar systems. I have over 15 years experience in the repair and calibration of Doppler and Lidar SMD's. I have successfully completed factory training in the repair and service of Laser Speed Detection systems by LTI, Inc. Graduate of Washington Technical Institute. I have successfully completed courses in the repair and calibration of measuring instruments. I am experienced and competent in the principles and fundamental requirements of calibration from DC to Microwave frequencies.

CES Metrology Laboratory is audited periodically by American Association for Laboratory Accreditation (A2LA) to ensure and maintain our ISO/IEC 17025:2005 accreditation and certification, (No. 2560.01), for technical competence. Our laboratory maintains manuals specific to these SMD(s). I am personally familiar with those manuals and how each of the SMD's is designed and operates. The SMD's were calibrated and tested under my direction on the Calibration Date(s) indicated. The unit(s) were serviced to meet or exceed existing performance standards.

All Doppler SMD's are tested as follows: The Vocar HR, handheld Radar certification system, Serial number VHR0510120 is used to calibrate Doppler SMD devices. The Vocar HR is calibrated annually by the manufacturer. The Vocar HR is used to simulate speeds at 5 mph increments from 20 mph to 140 mph to verify accuracy in stationary and moving mode. Measurements are taken of the SMD transmit frequency, antenna/receiver sensitivity and any accompanying tuning forks are also tested for accuracy. All other operational functions of the SMD system are then tested for proper performance.

The Laser SMD's transmit a series of highly 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 ft). Since the speed of light is a known value, the distance of the target is determined by calculating how long it takes for the signal to travel to the target and back. This series of measurements allows the SMD to calculate the speed of the target by measuring the distance traveled in time (usually less than a second for a veritable display). The displayed speed is accurate to within  $\pm 1$  MPH.

All Lidars tested on or before November 24, 2008 were performed as follows: The Lidars Crystal Oscillator Reference Frequency test confirms that the output frequency of the Lidar is within the accepted range for the output of the device. This test is performed using a Hewlett Packard 53131A Frequency Counter, SN: 3546A10749, which is calibrated annually by Agilent Technologies. The HUD Alignment test confirms the Heads-Up Display is in proper alignment. The fixed distance test verifies that the Lidar correctly measures fixed distances within tolerances set by the Manufacturer. The Delta Distance test then ensures the math microprocessor is working properly. Nominal distances are traceable to Lufkin 0-300ft tape measure, SN: L1709, which is calibrated once every 3 years. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

All Lidars tested after November 24, 2008 will be tested as follows: The Laser Speed Measurement Simulator (LSMS SN: SS000043) is used to simulate a moving target. This is accomplished by detecting the optical output pulses of the laser device and generating artificial return pulses. Different speed values and ranges are simulated by varying the time delays between the input pulses and the return pulses. The LSMS consists of a Digital Delay Generator (DDG), and an optical interface unit (SN: OH000030). The DDG produces precise time delays. The optical interface unit converts the optical energy of the laser instrument into electrical signals which are supplied to the DDG. The optical interface unit also converts the electrical signals received from the DDG into optical energy which is then transmitted to the Lidar. The Lidars output power is tested using an Ophir Nova Display SN. 70228, with a PD300-SH power head, SN. 68814.

Based upon my education, training, experience, and knowledge of these SMD(s), it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a manner that it will produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by 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 produce accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator.

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Laser SMD(s):

**KUSTOM Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
LP01740	PRO-LITE	N/A	N/A	N/A	N/A	N/A 08/12/2011	12 MONTHS	08/12/2012
LP01962	PRO-LITE	N/A	N/A	N/A	N/A	N/A 03/22/2011	12 MONTHS	03/22/2012
LP02215	PRO-LITE	N/A	N/A	N/A	N/A	N/A 04/21/2009	12 MONTHS	04/21/2010
LP03716	PRO-LITE +	N/A	N/A	N/A	N/A	N/A 03/28/2011	12 MONTHS	03/28/2012
PL16381	PRO LASER III	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014
PL19264	PRO LASER III	N/A	N/A	N/A	N/A	N/A 06/18/2014	12 MONTHS	06/18/2015
PL19660	PRO LASER III	N/A	N/A	N/A	N/A	N/A 03/06/2014	12 MONTHS	03/06/2015
PL19662	PRO LASER III	N/A	N/A	N/A	N/A	N/A 03/06/2014	12 MONTHS	03/06/2015
PL21056	PRO LASER III	N/A	N/A	N/A	N/A	N/A 03/06/2014	12 MONTHS	03/06/2015
PL31986	PRO LASER III	N/A	N/A	N/A	N/A	N/A 06/18/2014	12 MONTHS	06/18/2015
PL31987	PRO LASER III	N/A	N/A	N/A	N/A	N/A 01/03/2014	12 MONTHS	01/03/2015
PL31988	PRO LASER III	N/A	N/A	N/A	N/A	N/A 06/27/2012	12 MONTHS	06/27/2013
PL31990	PRO LASER III	N/A	N/A	N/A	N/A	N/A 11/06/2014	12 MONTHS	11/06/2015

**LASER TECHNOLOGY INC Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
I05797/TJ000195	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	N/A 06/18/2014	12 MONTHS	06/18/2015
TJ000191	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	N/A 03/06/2014	12 MONTHS	03/06/2015
TJ000192	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	N/A 03/06/2014	12 MONTHS	03/06/2015
TJ000194	LTI 20/20 TRU SPEE	N/A	N/A	N/A	N/A	N/A 03/06/2014	12 MONTHS	03/06/2015
TJ000427	LTI 20-20	N/A	N/A	N/A	N/A	N/A 03/06/2014	12 MONTHS	03/06/2015
TJ000798	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	N/A 06/27/2013	12 MONTHS	06/27/2014
TJ000799	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	N/A 06/18/2014	12 MONTHS	06/18/2015
TJ000801	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	N/A 03/06/2014	12 MONTHS	03/06/2015
TJ000813	LTI 20-20 TRUSPEE	N/A	N/A	N/A	N/A	N/A 06/18/2014	12 MONTHS	06/18/2015

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

**PPLIED CONCEPTS INC. Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
DC099952	STALKER DUAL SL	KA073616	KA073625	FA168766	FA268481	09/13/2013	24 MONTHS	09/13/2015
DC110304	STALKER DUAL SL	KC076547	KC076551	FA212570	FB315146	10/01/2013	24 MONTHS	10/01/2015
DC110305	STALKER DUAL SL	KC076550	KC076563	FA212572	FB315145	10/01/2013	24 MONTHS	10/01/2015
DP013353	STALKER DSR 2X	KC0039059	KR013231	182916	282408	03/06/2014	24 MONTHS	03/06/2016
DP14191	STALKER DSR 2X	KC042327	KR014273	185376	286536	03/06/2014	24 MONTHS	03/06/2016
DP14215	STALKER DSR 2X	KR014265	KC042312	185380	286539	03/06/2014	24 MONTHS	03/06/2016
DP14218	STALKER DSR 2X	KR014335	KC042330	185379	286540	03/06/2014	24 MONTHS	03/06/2016
DP14222	STALKER DSR 2X	KC042309	KR014266	185377	286537	02/10/2014	24 MONTHS	02/10/2016
DP14228	STALKER DSR 2X	KR014333	KC042254	185378	286538	06/27/2013	24 MONTHS	06/27/2015

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

DECATUR Manufacturer's the following SMD(s)

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
GHD-04683	GENESIS HANDHELI	HANDHELD	N/A	156143	156034	06/27/2013	24 MONTHS	06/27/2015
GHD-04684	GENESIS HANDHELI	HANDHELD	N/A	156120	156046	06/02/2011	24 MONTHS	06/02/2013
GHD-04731	GENESIS HANDHELI	HANDHELD	N/A	156162	N/A	06/18/2014	24 MONTHS	06/18/2016
GHD-04737	GENESIS HANDHELI	HANDHELD	N/A	156150	156005	10/05/2011	24 MONTHS	10/05/2013
GHD-04754	GENESIS HANDHELI	HANDHELD	N/A	155997	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04811	GENESIS HANDHELI	HANDHELD	N/A	156087	156047	03/06/2014	24 MONTHS	03/06/2016
GHD-04823	GENESIS HANDHELI	HANDHELD	N/A	156158	156015	03/20/2013	24 MONTHS	03/20/2015
GHD-04824	GENESIS HANDHELI	HANDHELD	N/A	156123	170699	03/06/2014	24 MONTHS	03/06/2016
GHD-04826	GENESIS HANDHELI	HANDHELD	N/A	55528	51531	03/06/2014	24 MONTHS	03/06/2016
GHD-04828	GENESIS HANDHELI	HANDHELD	N/A	6728	N/A	06/27/2013	24 MONTHS	06/27/2015
GHD-04829	GENESIS HANDHELI	HANDHELD	N/A	155974	N/A	03/22/2011	24 MONTHS	03/22/2013
GHD-04831	GENESIS HANDHELI	HANDHELD	N/A	156072	156002	06/27/2013	24 MONTHS	06/27/2015
GHD-04864	GENESIS HANDHELI	HANDHELD	N/A	156111	155998	07/08/2014	24 MONTHS	07/08/2016
GHD-04866	GENESIS HANDHELI	HANDHELD	N/A	156142	156062	10/05/2011	24 MONTHS	10/05/2013
GHD-04870	GENESIS HANDHELI	HANDHELD	N/A	156088	156060	11/01/2011	24 MONTHS	11/01/2013
GHD-04890	GENESIS HANDHELI	HANDHELD	N/A	47291	N/A	01/03/2014	24 MONTHS	01/03/2016
GHD-04891	GENESIS HANDHELI	HANDHELD	N/A	156101	155975	10/05/2011	24 MONTHS	10/05/2013
GHD-04897	GENESIS HANDHELI	HANDHELD	N/A	156170	156031	03/20/2013	24 MONTHS	03/20/2015
I01484/GHD-04890	GENESIS DIRECTIOI	HANDHELD	N/A	156169	156049	10/13/2009	24 MONTHS	10/13/2011

This agency, LAKEWOOD POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

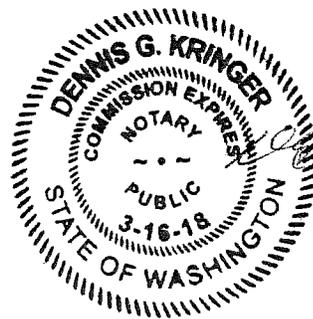
**MPH INDUSTRIES Manufacturer's the following SMD(s)**

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
5240	VINDICATOR	HANDHELD	N/A	298388	N/A	03/20/2013	24 MONTHS	03/20/2015
5244	VINDICATOR	N/A	N/A	15233	N/A	06/27/2012	24 MONTHS	06/27/2014
5245	VINDICATOR	N/A	N/A	6887	N/A	03/06/2014	24 MONTHS	03/06/2016
5246	VINDICATOR	HANDHELD	N/A	6886	N/A	03/20/2013	24 MONTHS	03/20/2015
664008614	BEE III	BEN653021584	BEN653021585	392233	392408	03/20/2013	24 MONTHS	03/20/2015
664008615	BEE III	BEN653021587	BEN653021586	392276	392395	09/04/2013	24 MONTHS	09/04/2015
664008616	BEE III	BEN653021589	BEN653021588	392248	392252	03/20/2013	24 MONTHS	03/20/2015
930002311	BEE III	BEN65303004	BEN65303005	298523	298529	03/06/2014	24 MONTHS	03/06/2016
930002312	BEE III	BEN653013007	BEN653013006	076340	075662	03/21/2012	24 MONTHS	03/21/2014
930002313	BEE III	BEN653013004	BEN653013005	965581	965546	03/06/2014	24 MONTHS	03/06/2016
930002314	BEE III	BEN653013011	BEN653013010	965583	965516	06/27/2013	24 MONTHS	06/27/2015
930002315	BEE III	BEN653013012	BEN653013013	965532	965523	06/18/2014	24 MONTHS	06/18/2016
BEE109002087	BEE 36	BEE113001613	BEE113000605	392245	392393	03/06/2014	24 MONTHS	03/06/2016
BEE245001233	BEE 36	BEE113001613	BEE113000605	964961	854485	03/22/2011	24 MONTHS	03/22/2013
BEE664000372	BEE III	BEN653000920	BEN653000919	298611	298681	03/06/2014	24 MONTHS	03/06/2016
BEE664008617	BEE 36	BEE113001613	BEE113000605	392245	392393	03/06/2014	24 MONTHS	03/06/2016
BEE665000388	BEE	BEN653000917	BEN653000918	7477797	749718	06/27/2012	24 MONTHS	06/27/2014
BEE706000288	BEE III	BEN653000920	BEN653000919	076340	075662	03/06/2014	24 MONTHS	03/06/2016
ENF686000136	ENFORCER	BEN653000921	N/A	298523	298529	07/13/2010	24 MONTHS	07/13/2012
HHM556000951	SPEED GUN	HANDHELD	N/A	966359	070908	07/26/2013	24 MONTHS	07/26/2015
HHM556000952	SPEED GUN	HANDHELD	N/A	964957	854604	06/18/2014	24 MONTHS	06/18/2016
HHS568000845	Z-15	HANDHELD	N/A	6876	N/A	03/22/2011	24 MONTHS	03/22/2013
HHS568000846	Z-15	HANDHELD	N/A	298375	N/A	04/25/2012	24 MONTHS	04/25/2014
HHS568000847	Z-15	HANDHELD	N/A	070704	N/A	03/20/2013	24 MONTHS	03/20/2015
HHS569000666	Z-25	HANDHELD	N/A	969332	969196	06/02/2011	24 MONTHS	06/02/2013
PYT546000033	PYTHON II	PYT315004668	BEE 113001606	263407	204532	03/06/2014	24 MONTHS	03/06/2016
PYT546001907	PYTHON	PYT315008028	PYT315008029	55522	51534	08/19/2014	24 MONTHS	08/19/2016
PYT546003677	PYTHON II	PYT315011063	PYT315011064	286377	286435	04/25/2012	24 MONTHS	04/25/2014
PYT546007249	PYTHON	PYT315017400	PYT315017401	413687	413546	06/18/2014	24 MONTHS	06/18/2016
PYT546007250	PYTHON II	PYT315017402	PYT315017403	413696	413526	12/17/2013	24 MONTHS	12/17/2015
PYT546007251	PYTHON	PYT315017405	PYT315017404	N/A	N/A	10/18/2012	24 MONTHS	10/18/2014
PYT546007252	PYTHON	PYT315017407	PYT315017406	413618	413531	07/17/2013	24 MONTHS	07/17/2015
PYT546007253	PYTHON	PYT315017408	PYT315017409	44010	854609	03/06/2014	24 MONTHS	03/06/2016
PYT546007254	PYTHON	PYT315017410	PYT315017411	286377	286435	06/27/2013	24 MONTHS	06/27/2015
PYT546007255	PYTHON	PYT315017412	PYT315017413	413620	413543	03/20/2013	24 MONTHS	03/20/2015
PYT546007256	PYTHON	PYT135017415	PYT135017414	413615	413528	03/06/2014	24 MONTHS	03/06/2016
PYT846003010	PYTHON III	PYT831003433	PYT855003837	969246	969129	09/19/2013	24 MONTHS	09/19/2015
PYT846003011	PYTHON III	PYT855003888	PYT831003434	276713	276256	03/20/2013	24 MONTHS	03/20/2015
PYT846003458	PYTHON III	PYT831004079	PYT855004541	077805	077831	03/06/2014	24 MONTHS	03/06/2016
PYT846003459	PYTHON III	PYT381004080	PYT855004542	077808	077822	09/17/2014	24 MONTHS	09/17/2016
PYT846003460	PYTHON III	PYT831004081	N/A	076668	077826	06/18/2014	24 MONTHS	06/18/2016
PYT846003644	PYTHON III	PYT831004153	PYT855004836	077880	077834	03/06/2014	24 MONTHS	03/06/2016

**State of Washington  
County of King**

Signed or attested before me on

11/6/14 by Charles N. Brown  
I have satisfactory evidence that the person described in this document:  
(a) is personally known to me; OR (b) is identified upon oath or affirmation of credible witness personally know to me; OR  
(c) is identified on the basis of Identification documents.



*Dennis G. Kringer*  
Dennis G. Kringer  
Notary Public in and for the State of Washington,  
Residing in Bellevue, WA

My appointment expires March 16, 2018

*Charles N. Brown*  
Certified by: Charles N. Brown  
Place: Redmond, WA