MUNICIPAL COURT

LAKEWOOD • UNIVERSITY PLACE • STEILACOOM • DUPONT

SUSAN ADAMS MUNICIPAL COURT JUDGE

DEANA L. WRIGHT MUNICIPAL COURT ADMINISTRATOR









Speed Measuring Device Certificates for Lakewood 2017-2019



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CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION
OF ELECTRONIC SPEED MEASURING DEVICE

FILED

IRLJ RULE 6.6 EFFECTIVE 10/31/2000

MAR 13 2017

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 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 and 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 the below stated 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 the above stated SMD(s). I am personally familiar with those manuals and how each of the SMD's is designed and operates. The SMD's listed above were calibrated and tested under my direction on the Calibration Date/s listed above. The unit/s were serviced to meet or exceed existing performance standards.

All Doppler 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 sends out a series of very 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 can be determined by calculating how long it takes for the signal to travel to the target and back. This series of measurements will allow the SMD to calculate the speed of the target by measuring the distance traveled in an amount of time (usually less than a second for a veritable display). The displayed speed will be accurate to within ± 1 MPH.

All Lidars are tested 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 Aglient 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.

Based upon my education, training, experience, and knowledge of the SMD listed above, 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 an operated by a trained operator.

1,000,0727 LT 20-20	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
10007996	TJ000427	LTI 20-20	N/A	N/A	N/A	A. S. C. C. St. V. S. P. S.			CANADA PARAMETER AND
17,000969	TJ000798	LTI 20-20 TRUSPEEC	N/A	N/A					
TJ000691	*	LTI 20-20 TRUSPEED	N/A	N/A					
T. T. T. T. T. T. T. T.		LTI 20-20 TRUSPEED	N/A	N/A					
1.000199	Management of the same of the	LTI 20-20 TRUSPEEC	N/A						
1,000192	TJ000191	LTI 20/20 TRU SPEEL	N/A						
17000194	TJ000192	LTI 20/20 TRU SPEED	N/A						
10009467	TJ000194	LTI 20/20 TRU SPEEI	N/A						
10093497	TJ000195	LTI 20/20 TRU SPEEL	N/A						
1003469	TJ003457	LTI 20/20 TRU SPEEI	N/A	N/A					
PL31988 PRO LASER III N/A N/A N/A N/A 0201/2017 12 MONTHS 0201/2018 BEE865000318 BEE BENS5000019 PNO LASER III N/A N/A 0201/2017 12 MONTHS 0201/2018 BEE865000318 BEE BENS5000019 BENS5000188 32233 39208 0201/2017 24 MONTHS 0201/2019 64008614 BEE III BENS50301589 BENS5001688 392233 39208 0201/2017 24 MONTHS 0201/2019 694008614 BEE III BENS50301589 BENS5031688 392233 39208 0201/2017 24 MONTHS 0201/2019 930022315 BEE III BENS50301589 BENS5031688 392233 39208 0201/2017 24 MONTHS 0201/2019 930022315 BEE III BENS50301598 BENS5031688 392234 392235 0201/2017 24 MONTHS 0201/2019 030022315 BEE III BENS50301598 BENS5031688 392235 03001/2017 24 MONTHS 0201/2019 0400-4018 04004 04004 02001/2017 24 MONTHS 0201/2019 0400-4018 04004 04004 04004 02001/2017 24 MONTHS 0201/2019 0400-4018 04004 0400	TJ003458	LTI 20/20 TRU SPEEI	N/A						
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	0240	VINDICATOR	N/A	N/A	6887				

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

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
	VINDICATOR	HANDHELD	N/A	6886	N/A	CALL CONTRACTOR DESCRIPTION OF THE PARTY OF	24 MONTHS	
*	VINDICATOR	N/A	N/A	15227			24 MONTHS	
HHS568000846		HANDHELD	N/A	298375			24 MONTHS	
HHS568000847	<u>Z-15</u>	HANDHELD	N/A	070704			24 MONTHS	

State of Washington

County of King Signed or attested before me on

_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 Indentification documents.

Dennis G. Kringer

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

My appointment expires March 16, 2018

Cértified by: Charles N. Brown

Place: Redmond, WA

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

I, Charles N, Brown do certify under penalty of perjury under the laws of the State of Washington that the following is true and correct:

I, Charles N. Brown am employed with Cascade Engineering Services, Inc. (CES) Metrotogy and Electronic Repair Services, as a Senior Metrotogy Technician, specialized in Speed Measuring Device (SMD) technology, and assigned as co-custodian of SMD records. 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 . The uses the SMD(s) listed in the table below.

I maintain the following qualifications with respect to SMD(s); Twelve years military experience in electronics, which included the repair and calibration of alrhorne 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 17025:2006 accreditation and certification, (No. 2560.01), for technical competence. The CES laboratory is an authorized service center for all makes and models of SMD(s) used by the . Our laboratory maintains manuals epecific to these SMD(s), which are available for public inspection upon request. I am personally familiar with those manuals and am personally familiar with those manuals and am personally familiar with those so designed and constructed to accurately and reliably employ the Doppler Radar principle or the measurement techniques based on the velocity of light as a constant, as the case may be, in such a manner that each of them will give accurate and reliable measurement of the speed of motor vehicles when used by a trained operator. Each of the SMD's were calibrated and tested under my direction on the Calibration Date(s) indicated in the table below. The unit(s) were serviced to meet or exceed existing performance standards.

The CES laboratory tests all Doppler SMD's used by the at least every two years, as recommended by the manufacturer, 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 funing 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 plus (+) or minus (-) one (1) mile per hour.

The CES laboratory tests all Laser / Lidar SMD(s) used by the , at least every two years, as recommended by the manufacturer, 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 generaling 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 the SMD(s) listed below, it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately and reliably employ the Doppler effect in such a manner that it will produce measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator accurate to within plus (+) or minus (-) one (1) mile per hour or, in the case of the Laser/Lidar SMD(s), each of these pieces of equipment is so designed and constructed as to accurately and reliably employ measurement techniques based on the velocity of light in such a manner that it will produce measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator accurate to within plus (+) or minus (-) one (1) mile per hour.

en de la facilitat de la companya d La companya de la co 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 8/N Ante	nna 2 S/N T.I	F. 1 8/N	T.F. 2 8/N	Cal. Date	Cal. Interval	Due Date
	+ 110 to 10to 111	HA NA	NA	N/A	NA	02/01/2017	STATE OF THE PARTY	02/01/2018
PL31987	PRO LASER III	N/A	N/A	N/A	N/A	02/01/2017		02/01/2018

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
TJ000191 Yalkajamilia	LTI 20/20 TRU SPEEI	·· N/A	NA	WA	N/A		12 MONTHS	
TJ000192 (6)(14)	LTI 20/20 TRU SPEEI	N/A	N/A	N/A			12 MONTHS	02/01/2018
TJ000194 (91.5)	LTI 20/20 TRU SPEEI	N/A	N/A	N/A			12 MONTHS	02/01/2018
TJ000195 (7)(5)	· LTI 20/20 TRU SPEEI	N/A	N/A	N/A	***************************************		12 MONTHS	02/01/2018
TJ000427	LTI 20-20	N/A	N/A	N/A			12 MONTHS	02/01/2018
TJ000798	LTI 20-20 TRUSPEEC	N/A	N/A	N/A			12 MONTHS	02/01/2018
TJ000799	LTI 20-20 TRUSPEED	N/A	N/A	N/A			12 MONTHS	03/03/2018
TJ000801	LTI 20-20 TRUSPEEC	N/A	N/A	N/A			12 MONTHS	02/01/2018
TJ003457	LTI 20/20 TRU SPEEI	N/A	N/A	N/A			12 MONTHS	12/22/2017
TJ003468	LTI 20/20 TRU SPEEL	N/A	N/A	N/A			12 MONTHS	***************************************
· · · · · · · · · · · · · · · · · · ·	·····			1111	TYPE	UNIVERSE	14 MONTINS	02/01/2018

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

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 8/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal, Interval	Due Date -
	LTI 20-20 TRUSPEEC	131/13	IWA	N/A	WANGE BURGER	02/01/2017	COMPANIES CONTRACTOR OF THE PARTY OF THE PAR	02/01/2018

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 † S/N	Antenna 2 8/N	T.F. 1 8/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
DB007616	STALKER DSR 2X	KC120824	KR034427	241372	348888	-acteoretini esembili	24 MONTHS	01/25/2019
DB007707	STALKER DSR 2X	KC120808	KR034424	241573			24 MONTHS	01/25/2019
DB007711	STALKER DSR 2X	KC120822	KR034416	241374			24 MONTHS	01/25/2019
DB007727	STALKER DSR 2X	KC123399	KR034420	241577			24 MONTHS	01/26/2019
DC099952	STALKER DUAL SL	KA073616	KA073625	168766			24 MONTHS	02/01/2019
DC110305	STALKER DUAL SL	KC076550	KC076563	FA212572			24 MONTHS	02/01/2019
DP14216	STALKER DSR 2X	KR014265	KC042312	185380			24 MONTHS	02/01/2019
DF14218	STALKER DSR 2X	KR014335	KC042330	185379			24 MONTHS	02/01/2019
DP14228	STALKER DSR 2X	KR014333	KC042254	185378			24 MONTHS	03/08/2018

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
DP14222	O INLINEIX DOIX 2A	NG042308	KR014266	185377	286537	03/08/2016	24 MONTHS	03/08/2018

DECATUR Manufacturer's the following SMD(s)

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 8/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
GHD-04683	GENESIS HANDHELI	HANDHELD	N/A	166143	158034	02/01/2017	24 MONTHS	02/01/2019
GHD-04684	GENESIS HANDHELI	HANDHELD	N/A	166169	156049	02/01/2017	24 MONTHS	02/01/2019
GHD-04731	GENESIS HANDHELI	HANDHELD	N/A	156162	N/A	02/15/2017	24,MONTHS	02/15/2019
GHD-04737	GENESIS HANDHELI	HANDHELD	N/A	070682	. N/A	02/01/2017	24 MONTHS	02/01/2019
GHD-04811	GENESIS HANDHELI	HANDHELD	, N/A	166087	156047	02/01/2017	24 MONTHS	02/01/2019
GHD-04828	GENESIS HANDHELI	HANDHELD	N/A	6728	N/A	02/01/2017	24 MONTHS	02/01/2019
GHD-04831	GENESIS HANDHELI	HANDHELD	N/A	156072	156002	02/16/2017	24 MONTHS	02/15/2019
GHD-04864 .** : **	GENESIS HANDHELI	HANDHELD	N/A	156111	155998	02/01/2017	24 MONTHS	02/01/2019
GHD-04866	GENESIS HANDHELI	HANDHELD	N/A	969092	969130	02/01/2017	24 MONTHS	02/01/2019
GHD-04891	GENESIS HANDHELI	HANDHELD	, N/A	24415	N/A	02/01/2017	24 MONTHS	02/01/2019
GHD-04897	GENESIS HANDHELI	HANDHELD	N/A	156170	158031	02/01/2017	24 MONTHS	02/01/2019

MPH INDUSTRIES Manufacturer's the following SMD(s)

		and the second second						1.5
ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 8/N	T.F. 1.8/N	T.F. 2 9/N	Cal. Date	Cal. Interval	Due Date
6238	VINDICATOR	. N/A	N/A	72362	. N/A	02/15/2017	24 MONTHS	02/15/2019
5239	VINDICATOR	HANDHELD	N/A	1672	N/A	02/01/2017	24 MONTHS	02/01/2019
5240	VINDICATOR	HANDHELD	N/A	298388	N/A	02/01/2017	24 MONTHS	02/01/2019
6245	VINDICATOR	, N/A	' N/A		. N/A	02/01/2017	24 MONTHS	02/01/2019
6246	VINDICATOR	HANDHELD	N/A	6886	N/A	02/01/2017	24 MONTHS	02/01/2019
5250	VINDICATOR	- N/A	N/A	15227	N/A	02/15/2017	24 MONTHS	02/15/2019
664008614	BEE III	BEN653021584	BEN653021586	392233	392408	·	24 MONTHS	02/01/2019
664008616	BEE III	BEN663021589	BEN653021688	392248	392252		24 MONTHS	02/01/2019
930002315	BEE III	BEN653013012	BEN653013013	965532				02/01/2019
BEE665000388	BEE	BEN653000917	BEN653000918	747779			24 MONTHS	02/01/2019
HHM666000951	SPEED GUN	HANDHELD	N/A	966369			24 MONTHS	02/01/2019
HHM656000952	SPEED GUN	HANDHELD	, N/A	964957			24 MONTHS	02/01/2019
HHS568000846	· Z-15	HANDHELD	· · N/A	298375	N/A		24 MONTHS	02/01/2019
HHS668000847	`Z-15	HANDHELD	N/A	. 070704.	N/A		24 MONTHS:	02/01/2019
PYT546001907	PYTHON.	PYT315008028	PYT315008029	55522		···	24 MONTHS	02/01/2019
_PYT546003677	PYTHON II	PYT31601:1063	PYT315017411	2984:15	314654		24-MONTHS	_02/01/2019_
PYT646007250	PYTHON II	PYT316017402	PYT315017403	967227	965901	02/01/2017	24 MONTHS	02/01/2019
PYT548007252	PYTHON	PYT315017407	PYT315017406	. 413618	413531		24 MONTHS	02/01/2019
PYT546007254	PYTHON	PYT315017410	PYT315017411	286377	286435	02/01/2017	24 MONTHS	02/01/2019
PYT546007255	PYTHON	PYT315017412	PYT315017413	413620			24 MONTHS	02/01/2019
PYT846003459	PYTHON III	PYT381004080	PYT855004542	077808	077822	02/01/2017	24 MONTHS	02/01/2019
PYT846003644	PYTHON III	PYT831004153	PYT855004836	077880			24 MONTHS	02/01/2019
PYT846005439	PYTHON II	PYT831008126	PYT831008126	490653	490701		24 MONTHS	. 02/01/2019
PYT846005440	PYTHON II	PYT831008127	PYT831008128	490726	490680		24 MONTHS	02/01/2019
PYT846005441	PYTHON II	PYT831008131	PYT831008132	490706			24 MONTHS	02/01/2019
PYT846005442	PYTHON II	PYT831008129	PYT831008130	490733			24 MONTHS	02/01/2019
PYT846005443	PYTHON II	PYT831008133	PYT831008134	490711	490742	02/01/2017	24 MONTHS	02/01/2019

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

SMD202.2/Revision New March-2010

Page 4 of 4

MUNICIPAL COURT

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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 LBXED FOOD 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 Delection 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 ± 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 Aglient 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 S	
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···ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 8/N	T.F. 1 8/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
PL19660	PRO LASER III.	N/A	N/A	N/A	Action of Course to Produce according		12 MONTHS	02/25/2016
PL21056	PRO LASER III	N/A	N/A	N/A			12 MONTHS	02/24/2017
PL31986	PRO LASER III	N/A	N/A	N/A			12 MONTHS	02/24/2017
PL31987	PRO LASER III	N/A	N/A	N/A			12 MONTHS	02/24/2017
PL31990	PRO LASER III	N/A	. N/A	N/A			12 MONTHS	02/24/2017
LASER-TECHNOLOGY I	NC Manufacturer's the fo	illowing SMD(s)-						
: MalD/Serial Number	1 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
TJ000191	· LTI 20/20 TRU SPEEI	N/A	N/A	N/A			12 MONTHS	02/24/2017
TJ000192	LTI 20/20 TRU SPEEI	· N/A	N/A	N/A			12 MONTHS	02/24/2017
TJ000194	LTI 20/20 TRU SPEEI	N/A	N/A	N/A			12 MONTHS	02/24/2017
TJ000427	LTI 20-20	N/A	· N/A	N/A			12 MONTHS	12/29/2017
TJ000798	LTI 20-20 TRUSPEEC	N/A	N/A	N/A			12 MONTHS	09/09/2017
TJ000799 (1973-1977	LTI 20-20 TRUSPEET	N/A	N/A	N/A			12 MONTHS	03/16/2017
TJ000801	LTI 20-20 TRUSPEED	N/Ã	N/A	N/A			12 MONTHS	12/22/2017
TJ003465	LTI 20/20 TRU SPEEI	. N/A	N/A	N/A			12 MONTHS	05/13/2016
TJ003456	LTI 20/20 TRU SPEEI	N/A	N/A	N/A			12 MONTHS	02/24/2017
TJ003467	LTI 20/20 TRU SPEEI	N/A	· N/A	N/A			12 MONTHS	12/22/2017
TJ003468	LTI 20/20 TRU SPEEI	N/A	N/A	N/A			12 MONTHS	07/13/2017
TJ003459 .	LTI 20/20 TRU SPEEI	N/A	N/A	N/A			12 MONTHS	05/13/2016
LASER TECHNOLOGY I	NC. Manufacturer's the f	ollowing SMD(s)		.,.			4,5	00/10/2010
· ID/Serial 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
TJ000813	LTI 20-20 TRUSPEEC	N/A	N/A	N/A	N/A		12 MONTHS	
LTI Manufacturer's the f	ollowing SMD(s)							
· ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 8/N	T.F. 1 8/N	T.F. 2 S/N	Gal. Date	Cal Informat	Due Bete
05797/TJ000195	LTI 20/20 TRU SPEEI	N/A	N/A	N/A			Cal, Interval	Due Date
			147	11//	MA	OHENIAUIO	STIT FICH A	02/24/2017
	•			•				
This agency, LAKEWOOF	POLICE DEPARTMENT	currently utilizes t	he following Doppl	er SMD(s):				
APPLIED CONCEPTS M.	anufacturer's the followi	ng SMD(s)			•			

· ID/Serfal 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	168766	AND THE PROPERTY OF THE PARTY O		24 MONTHS	06/24/2017
DC110304	STALKER DUAL SL	KC076547	KC076551	FA212570	~~~~		24 MONTHS	06/24/2017
DC110305	STALKER DUAL SL	KC076550	KC076563	FA212572	***************************************		24 MONTHS	06/24/2017
DP013353	STALKER DSR 2X	KC0039069	KR013231	182916			24 MONTHS	02/24/2018
DP14191	STALKER DSR 2X	KC042327	KR014273	185376			24 MONTHS	02/24/2018
DP14215	STALKER DSR 2X	KR014265	KC042312	185380	286539	02/24/2016	24 MONTHS	02/24/2018
DP14218	STALKER DSR 2X	KR014335	KC042330	185379				06/24/2017
DP14228	STALKER DSR 2X	KR014333	KC042254	185378			24 MONTHS	

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	Duo Data
DP14222	STALKER DSR 2X	KC042309	KR014266	185377	286537	WOOD POST DANSES TO BETTERDE	24 MONTHS	00/00/00/0
				100011		UUIUUILUIU	CHINOM PA	03/08/2018

DECATUR Manufacturer's the following SMD(s)

ID/Serial Number	Model Number	Antenna 1 S/N	Antenna 2 8/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date
GHD-04683	GENESIS HANDHELI	HANDHELD	N/A	166143	156034	06/24/2015	24 MONTHS	06/24/2017
GHD-04754	GENESIS HANDHELI	HANDHELD	N/A	155997			24 MONTHS	06/24/2017
GHD-04811	GENESIS HANDHELI	HANDHELD	N/A	156087			24 MONTHS	***************************************
GHD-04824	GENESIS HANDHELI	HANDHELD	N/A	166123			24 MONTHS	02/24/2018
GHD-04826	GENESIS HANDHELI	HANDHELD	N/A	*******				02/24/2018
GHD-04828	· GENESIS HANDHELI	HANDHELD		65528			24 MONTHS	02/24/2018
GHD-04831		***************************************	N/A	6728			24 MONTHS	08/24/2017
GHD-04866	GENESIS HANDHELI	HANDHELD	N/A	156072	156002	06/24/2015	24 MONTHS	06/24/2017
	GENESIS HANDHELI	HANDHELD	N/A	156142	156062	06/24/2015	24 MONTHS	06/24/2017
GHD-04890 .	GENESIS HANDHELI	HANDHELD	N/A	47291	N/A	02/24/2016	24 MONTHS	02/24/2018
GHD-04897	GENESIS HANDHELI	HANDHELD	N/A	156170			24 MONTHS	02/25/2017
					***************************************			OMEGIECIT

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

MPH INDUSTRIES Manufacturer's the following SMD(s)

5240 VINDICATOR		'ID/Serlal Number	Model Number	Antenna 1 8/N	Antenna 2 9/N	T.F. 1 8/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date	
BEE III BEN653021634 BEE III BEN6530216363 BEN6650216363 392240 392262 02/26/2016 24 MONTHS 03/03/2017		5240	VINDICATOR			298388	N/A	06/24/2016	24 MONTHS	TATAL CONTRACTOR AND ADDRESS OF THE PARTY AND	
BEE1 BEN653013004 BEE3 BEN653013005 BEN653013016 BEN653013016 BEN653013010 BEN653013013 BEE51130010 BEN653013013 BEE51130010 BEN653013013 BESSA	•	V	VINDICATOR	HANDHELD	N/A	6886	N/A	06/24/2016	24 MONTHS	06/24/2017.	
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State of Washington County of King

Signed or attested before me of

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 eath oraffirmation
of credible witness personally know to me; OR
(c) is identified on the basis of
indentification documents.

Dennis G. Kringer Notary Public in and for the State of Washington, Residing in Believue, WA My appointment expires March 16, 2018

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



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



IRLJ RULE 6.6 EFFECTIVE 1/3/2006

FFB 16 2018

I, Gregory E Olsen, do certify under penalty of perjury as follows:

MUNICIPAL COURT

I am employed with Cascade Engineering Services, Inc. (CES) Metrology and Electronics Repair Services, as a Senior Metrology Technician. I have been employed in such a capacity since 2014. Part of my duties includes supervising the maintenance and repair of all electronic and laser speed measuring devices (SMD's) used by LAKEWOOD POLICE DEPARTMENT.

All SMD's currently used by LAKEWOOD POLICE DEPARTMENT are listed in Exhibit "A".

I maintain the following qualifications with respect to SMD(s): Nine years military experience in electronics, which included the repair and calibration of airborne and ground radar systems. I have over three years of experience in the repair and calibration of Doppler and Lidar SMD's. 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.

The CES laboratory maintains manuals for all of the SMD's listed in Exhibit "A". I am personally familiar with those manuals and how each of the SMD's are designed and operated. On the date indicated in Exhibit "A" testing of the SMD's was performed using CES procedures under the direction of an authorized SMD expert. The results were evaluated and certified to meet or exceed existing performance standards and entered into the CES certification management database. CES laboratory maintains a testing and certification program that requires each SMD to be tested and certified for accuracy at least once every two years.

The CES laboratory tests all Doppler SMD's used by LAKEWOOD POLICE DEPARTMENT, as recommended by the manufacturer, as follows: The Vocar HR, handheld Radar certification system 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 feet). Since the speed of light is a known fixed 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 the signal took to travel to the target and back. The displayed speed is accurate to within plus (+) or minus (-) one (1) mile per hour.

The CES laboratory tests all Laser / Lidar SMD(s) used by LAKEWOOD POLICE DEPARTMENT, as recommended by the manufacturer, as follows: The Laser Speed Measurement Simulator (LSMS) is utilized 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. 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 Lidar's output power is tested using an Ophir Nova Display, with a PD300-SH power head.

On the date indicated in Exhibit "A", each SMD was tested by a trained technician listed therein and under my direction. All Technicians listed on Exhibit "A" received training in the proper use and operation of SMD test equipment and performance testing procedures used to test Laser and Doppler SMDs. After successfully completing training the technician is certified by myself and receives authorization allowing them to enter the results from the tests into the certificate management database. Individual Performance and Certification tests are entered into the certificate management database under the penalty of perjury by entering an authorized user id and password to authenticate it.

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

LASER TECHNOLOGY INC manufacturer's the following SMD(s):

1D/Serial Number Model Number Antenna 1	Model Number	Antenna 1 S/N Ant	tenna 2 S/N (T.F.7.S/N) T.F. 2 S/I	S/N Antenna 2 S/N T.F. 7 S/N Call Date Cal. Interval Due Date Technician
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M57 * * * * * * * * * * * * * * * * * * *	LTI 20/20 TRU SPEENIA	j)	N.A.	04/31/2018/12 MONTHS 01/31/2019 NICOLAS T MOWRY
jë Si	TI 20/20 TRU SPEE	N/A: *. N/A	N/A TO THE N/A	01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
		Color Sales Color Sales Sales	name (someone dustrices a consequence and sold sold sold sold sold sold sold sol	

LASER TECHNOLOGY INC. manufacturer's the following SMD(s):

Technician	COLAS T MOWRY
an SIN Antenna 2 SIN T.F.1 SIN T.F. 2 SIN Cal. Date Cal. Interval Due Date	V/A 01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
2 SIN T.F. 1 SIN T.F. 2 S	N/A N/A
r Antenn	FEN/A: N/A
er 🦠 Model Numbe	🌞 👟 LTI 20-20 TRUSPEEN/A 🐑
TD/Serial Number	TJ000813

3 of 6

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

APPLIED CONCEPTS manufacturer's the following SMD(s):

** ** B./Serial Number Model Number Antenna 1.S/N Antenna 2.S/N T.F. 3.S/N Cal. Date Cal. Interval Due Date	Antenna T.S/N Antenna 2 S/N	T.F. 1 SIN T.F. 2 SIN	Cal Date Cal Interval Due Date Technician
B007707	KC120808 % KR034424	FA241573 FB348889	FA241573 FB348889 02/15/2018.24 MONTHS 02/15/2020 NICOLAS T MOWRY
13	KC042327	FA185376 FB286536	FA185376 FB286536 01/81/2018/24 MONTHS 01/81/2020 NICOLAS T MOWRY
	KC039059 KR013231	FA182946 FB282408	FA182916 FB282408 01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
0P14228	KR014333 KC042254	FA185378 FB286538	FA185378 FB286538 01/31/2018/24 MONTHS 01/31/2020 NICOLAS T MOWRY
	KR014265 KKC042312	185380 286539	02/04/2017 24 MONTHS 02/04/2018 CHARLIE N BROWN
*	KC120824 KR034427	241372 348888	01/25/2017/24 MONTHS 01/25/2019 CHARLIE N BROWN
	KR014335 KC042330	185379 286540	02/01/2017, 24 MONTHS 02/01/2019 CHARLIE N BROWN
DB007741 STALKER DSR 2X KC120822	KC120822 KR034416	241374 348890	01/25/2017: 24 MONTHS 01/25/2019 CHARLIE N BROWN
JB06/7/27	KC123399 KR034420	241577 348891	01/25/2017, 24 MONTHS 01/25/2019 CHARLIE N BROWN
	L KC076550 - KC076563	FA212572 FB315145	FA212572 FB315145 02/01/2017/24 MONTHS 02/01/2019 CHARLIE N BROWN
	L KA073616 KA073625	168766 268481	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
OC110304 STALKER DUAL SL KC076547	L KC076547 KC076551	FA212570 FB315146	FA212570 FB315146 06/08/2017 24 MONTHS 06/08/2019 GREGORY E OLSEN
STATE OF THE PROPERTY OF THE P		an interest Orden and the Contract of the Cont	

APPLIED CONCEPTS INC. manufacturer's the following SMD(s):

Technician	HARLIE N BROWN
Antenna 2 S/N T.F.1 S/N T.F. 2 S/N Cal. Date Cal. Interval Due Date	03/08/2016, 24 MONTHS 03/08/2018, CHARLIE N BROWN
2 S/N T.F. 1 S/N T.F. 2 S	3 185377 286537
Antenna 1 S/N Antenna	KC042309: KR01426
Model Number	STALKER DSR 2X
- I.D./Serial Number	DP14222

DECATUR manufacturer's the following SMD(s):

LD Serial Number Model Number Antenna 7 S/N Antenna 2 S/N T.E. I S/N Cal. Dafe Cal. Interval Due Date	N T.E. TSIN T.F. 2 SIN	Call Date Cal. Interval Due Date Technician
GENESIS HANDHELHANDHELD N/A	6728 N/A	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHDE046833 S. S. S. S. GENESIS HANDHELHANDHELD NIVA	156143 156034	02/01/2017,24 MONTHS 02/01/2019, CHARLIE N BROWN
1	969092 969130	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD-04737	070682: N/A	02/01/2017,24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD-04897 CENESIS HANDHELHANDHELD N/A	156170 156031	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD-04864 GENESIS HANDHEIHANDHELD N/A	156111 155998	02/01/2017;24 MONTHS 02/01/2019; CHARLIE N BROWN
	156169 156049	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD:04891 * * * GENESIS HANDHELHANDHELD * N/A	24415: ** N/A	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD-04731 GENESIS HANDHEIHANDHELD N/A	156162 N/A	02/15/2017 24 MONTHS 02/15/2019 CHARLIE N BROWN
GHD-04831 GENESIS HANDHELHANDHELD N/A	156072 156002	02/15/2017 24 MONTHS 02/15/2019 CHARLIE N BROWN
GHD-04824 GENESIS HANDHELHANDHELD N/A	156123 170699	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
GHD:04754 W. Control Genesis Handhelhandheld W.N.A.	155997 N/A	01/81/2018 24 MONTHS 01/81/2020 NICOLAS T MOWRY
GHD-04890* CONTRACT SENESIS HANDHELHANDHELD NIA	47291* NIA	01/31/2018/24 MONTHS 01/31/2020 NICOLAS T MOWRY
GHD-04826 GENESIS HANDHEIHANDHELD N/A	55528 51531	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
GHD-04811 GENESIS HANDHELHANDHELD N/A	156087 156047	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
	ann de glicanica de de la completa del la completa de la completa della completa de la completa della completa	

MPH INDUSTRIES manufacturer's the following SMD(s):

1.D (Serial Nimber: Model Number	Antenna 1 S	T.F.1 S.N. T.F. 2 S.N.	N. Antenna 2 S/N T.F.1 S/N T.F. 2 S/N Call Date Cal. Interval Due Date Technician
BE	BEN6530009	747779 749718	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
BEE664008617	BEE113001613; BEE113000605	392243 392393	01/31/2018,24 MONTHS 01/31/2020; NICOLAS T MOWRY
930002315*** BEE III	BEN653013012 BEN653013013 965532	965532 965523	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
Í,	BEN65303004 BEN65303005	298523 298529	01/31/2018,24 MONTHS 01/31/2020, NICOLAS T MOWRY
930002313 BEE III	BEN653013004 BEN653013005 965581	965581 965546	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
BEE706000288 BEE III	BEN653000920 BEN653000919	965568 965513	02/24/2016.24 MONTHS 02/24/2018 CHARLIE N BROWN
864008614 STATE THE BEE III	384 BEN653021585	392233. ** 392408	02/01/2017/24 MONTHS 02/01/2019 CHARLIE N BROWN
BEE664000372 BEE III	BEN653000920 BEN653000919	298611	01/31/2018;24 MONTHS 01/31/2020;NICOLAS T MOWRY
664008616 BEE III	BEN653021589 BEN653021588 392248	392248 392252	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
PYT546007256 PYTHON	PYT135017415 PYT135017414	413615 - 413528	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
PYT546067252 * * * PYTHON	PYT315017407 PYT315017406	413618	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT546901907 - PYTHON	PYT315008028 PYT315008029 55522	55522 51534	02/01/2017:24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT546007255 PYTHON	PYT315017412 PYT315017413 413620	413620 413543	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT546007254 PYTHON	PYT3(5017410, PYT315017411 286377	286377 286435	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT546007251	PYT315017405 PYT315017404	413690. 413542	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
PYTES46007253	PYT315017408 PYT315017409	44010 % 854609	01/31/2018:24 MONTHS 01/31/2020 NICOLAS T MOWRY
PYT546000033 PYTHON II	PYT315004668 BEE 113001606263407		01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
PYT846005443 PYTHON II	PYT831008133 PYT831008134	490711 490742	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT846005440	PYT831008127, PYT831008128	490725 490680	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
BYTE46007250 章 章 章 PYTHON II	PYT315017402 PYT315017403	967227	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PY1546003677	PYJ315041063;PYT315017411	298415	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PY3846005442 PYTHON II	PYT831008129 PYT831008130	490733	02/01/2017/24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT846005441: PYTHON II	PYT831008131 PYT831008132	490706	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT846005439 * * * PYTHON II	PYT831008125 PYT831008126	490653:	01/31/2018 24 MONTHS 01/31/2020 NICOLAS 1 MOWRY
PYT846003644 % % % PYTHON III	4 Acres 1	077880 - 077834	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT846003010 - PYTHON III	PYT831003433 PYT855003837	390467	05/19/2017 24 MONTHS 05/19/2019/CHARLIE N BROWN
PYT846003459 PYTHON III	PYT381004080 PYT855004542	077808	02/01/2017/24 MONTHS 02/01/2019/CHARLIE N BRUWIN
PYT846003460 - PYTHON III		NA	01/31/2018 24 MONTHS 01/31/2020 NICOLAS I MOVVRY
PY	PY/1831004079 PYT855004541	07.7805 🐑	02/24/2016;24 MONTHS 02/24/2018 CHARLIE N BROWN
PYT845003011 PYTHON III	PYT855003888 PYT831003434	276713	01/21/2018/24 MONTHS 01/31/2020/NICOLAS MOVVRY
HHM556000951 SPEED GUN	HANDHELD N/A		02/04/2017, 24 MONTHS 02/04/2019 CHARLIE N BROWN
HHM556000952 SPEED GUN	HANDHELD N/A	9 64957 854604	02/01/2017 - 24 MONTHS 02/01/2019 CHARLIE N BROWN
5246 Section Section VINDICATOR	HANDHELD & NA	6886 🐣 🛸 N/A	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
5240% Section 1	HANDHELD: N/A	298388 N/A	02/01/2017/24 MONTHS 02/01/2019 CHARLIE N BROWN
5239 VINDICATOR	HANDHELD N/A	1672 ···· N/A	02/01/2019 CHARLIE N
5245 VINDICATOR	WA	6887 N/A	
5250 VINDICATOR	WA N/A	15227 NIA	02/15/2017, 24 MONTHS 02/15/2019 CHARLIE N BROWN
Language in the control of the contr			CONTRACTOR

MPH INDUSTRIES manufacturer's the following SMD(s):

N Antenna 2 S/N T.F. 1 S/N T.F. 2 S/N Cal, Date Cal. Interval Due Date Technician	02/15/2017/24 MONTHS 02/15/2019 CHARLIE N BROWN	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
SIN T.F. TSIN T.F. 2SI	72362 * NVA	298375 🛸 N/A	070704*********************************
Antenna 4 S/N Antenna 2	N/A N/A	HANDHELD* N/A	HANDHELD N/A
TD/Serial Number	5238 * * * * * * * VINDICATOR	≤ 2-15	HHS568000847

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

Exhibit "A" derives information from the certificate management database. See Exhibit "A" for details about individual SMD certifications.

State of Washington

County of King

Signed or attested before me on

<u>≪ 1) 18</u> by Gregory E Olsen

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

(a) is personally known to me; OR (b) is

identified upon oath oraffirmation of credible witness personally know to me; OR

(c) is identified on the basis of Indentification documents.

ennis G. Kringer

Notary Public in and for the State of Washington,

Bellevue

My appointment expires March 16th, 2018

Certified by: Gregory E Olsen

Place: Redmond, WA



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



IRLJ RULE 6.6 EFFECTIVE 1/3/2006

I, Nicolas T. Mowry, do certify under penalty of perjury as follows:

I am employed with Cascade Engineering Services, Inc. (CES) Metrology and Electronics Repair Services, as a Metrology Technician. I have been employed in such a capacity since 2016. Part of my duties includes supervising the maintenance and repair of all electronic and laser speed measuring devices (SMD's) used by LAKEWOOD POLICE DEPARTMENT.

All SMD's currently used by LAKEWOOD POLICE DEPARTMENT are listed in Exhibit "A".

I maintain the following qualifications with respect to SMD(s): I have commercial experience in electronics and in the repair and calibration of Doppler and Lidar SMD's since the beginning of 2016. I have a Bachelors of Science degree in physics from the University of Washington. I am experienced and competent in the principles and fundamental requirements of calibration from DC to Microwave frequencies.

The CES laboratory maintains manuals for all of the SMD's listed in Exhibit "A". I am personally familiar with those manuals and how each of the SMD's are designed and operated. On the date indicated in Exhibit "A" testing of the SMD's was performed using CES procedures under the direction of an authorized SMD expert. The results were evaluated and certified to meet or exceed existing performance standards and entered into the CES certification management database. CES laboratory maintains a testing and certification program that requires each SMD to be tested and certified for accuracy at least once every two years.

The CES laboratory tests all Doppler SMD's used by LAKEWOOD POLICE DEPARTMENT, as recommended by the manufacturer, as follows: The Vocar HR, handheld Radar certification system 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 feet). Since the speed of light is a known fixed 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 the signal took to travel to the target and back. The displayed speed is accurate to within plus (+) or minus (-) one (1) mile per hour.

The CES laboratory tests all Laser / Lidar SMD(s) used by LAKEWOOD POLICE DEPARTMENT, as recommended by the manufacturer, as follows: The Laser Speed Measurement Simulator (LSMS) is utilized 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. 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 Lidar's output power is tested using an Ophir Nova Display, with a PD300-SH power head.

On the date indicated in Exhibit "A", each SMD was tested by a trained technician listed therein and under my direction. All Technicians listed on Exhibit "A" received training in the proper use and operation of SMD test equipment and performance testing procedures used to test Laser and Doppler SMDs. After successfully completing training the technician is certified by myself and receives authorization allowing them to enter the results from the tests into the certificate management database. Individual Performance and Certification tests are entered into the certificate management database under the penalty of perjury by entering an authorized user id and password to authenticate it.

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

LASER TECHNOLOGY INC manufacturer's the following SMD(s):

I.D./Serial Number	er Model Number Antenna 1 S/N	Antenna 1 S		N T.F. 1S	N T.F. 2 S/N	Antenna 2 S/N T.F. 1 S/N T.F. 2 S/N Cal. Date Cal. Interval Due Date Technician
TJ000427	LTI 20-20	N/A	NA	N/A	N/A	01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
TJ000798	LTI 20-20 TRUSPEEN/A	ENA	NA	N/A	N/A	01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
TJ000799	LTI 20-20 TRUSPEEN/A	EN/A	NA	N/A	N/A	01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
TJ000801	LTI 20-20 TRUSPEEN/A	EN/A	N/A	N/A	N/A	01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
TJ003455	LTI 20/20 TRU SPEEN/A	EN/A	N/A	N/A	A/A	02/15/2018 12 MONTHS 02/15/2019 NICOLAS T MOWRY
TJ003456	LTI 20/20 TRU SPEEN/A	EN/A	N/A	N/A	N/A	01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
TJ003457	LTI 20/20 TRU SPEEN/A	EN/A	N/A	N/A	N/A	01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
TJ000191	LTI 20/20 TRU SPEEN/A	EN/A	N/A	N/A	A/A	01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
TJ000192	LTI 20/20 TRU SPEEN/A	EN/A	N/A	N/A	N/A	01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
TJ000194	LTI 20/20 TRU SPEEN/A	EN/A	N/A	ΑN	N/A	08/27/2018 12 MONTHS 08/27/2019 NICOLAS T MOWRY
TJ000195	LTI 20/20 TRU SPEEN/A	EN/A	N/A	N/A	N/A	02/15/2018 12 MONTHS 02/15/2019 NICOLAS T MOWRY

LASER TECHNOLOGY INC. manufacturer's the following SMD(s):

Technician	01/31/2018 12 MONTHS 01/31/2019 NICOLAS T MOWRY
al Due Date	S 01/31/2019
Cal. Interv	8 12 MONTHS
Cal. Date	01/31/2018
2 S/N T.F. 1 S/N T.F. 2 S/N Cal. Date Cal. Interval Due	N/A
T.F. 1 S/N	N/A
Antenna 2 S/N	N/A
Antenna 1 S/N	N/A
Model Number	LTI 20-20 TRUSPEEN/A
I.D./Serial Number	TJ000813

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

APPLIED CONCEPTS manufacturer's the following SMD(s):

I.D./Serial Number	Model Number Antenna 1 S/N	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Antenna 2 S/N T.F. 1 S/N T.F. 2 S/N Cal. Date Cal. Interval Due Date Technician
DP013353	STALKER DSR 2X KC039059	KC039059	KR013231	FA182916	FB282408	FA182916 FB282408 01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
DP14191	STALKER DSR 2X KC042327	KC042327	KR014273	FA185376	FB286536	FA185376 FB286536 01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
DP14215	STALKER DSR 2X KR014265	KR014265	KC042312	185380	286539	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
DP14218	STALKER DSR 2X KR014335	KR014335	KC042330	185379	286540	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
DB007616	STALKER DSR 2X KC120824	KC120824	KR034427	241372	348888	01/25/2017 24 MONTHS 01/25/2019 CHARLIE N BROWN
DB007707	STALKER DSR 2X KC120808	KC120808	KR034424	FA241573	FB348889	FA241573 FB348889 02/15/2018 24 MONTHS 02/15/2020 NICOLAS T MOWRY
DB007711	STALKER DSR 2X KC120822	KC120822	KR034416	241374	348890	01/25/2017 24 MONTHS 01/25/2019 CHARLIE N BROWN
DB007727	STALKER DSR 2X KC123399	KC123399	KR034420	241577	348891	01/25/2017 24 MONTHS 01/25/2019 CHARLIE N BROWN
DP14228	STALKER DSR 2X KR014333	KR014333	KC042254	FA185378	FB286538	FA185378 FB286538 01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
DC099952	STALKER DUAL SL KA073616	. KA073616	KA073625	168766 268481	ļ.	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
DC110304	STALKER DUAL SL KC076547	. KC076547	KC076551	FA212570	FB315146	FA212570 FB315146 06/08/2017 24 MONTHS 06/08/2019 GREGORY E OLSEN
DC110305	STALKER DUAL SL KC076550	. KC076550	KC076563	FA212572	FB315145	FA212572 FB315145 02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN

APPLIED CONCEPTS INC. manufacturer's the following SMD(s):

ue Date Technician	FA185377 FB286537 02/21/2018 24 MONTHS 02/21/2020 NICOLAS T MOWRY
ina 2 S/N T.F. 1 S/N T.F. 2 S/N Cal. Date Cal. Interval Due Date	02/21/2018 24 MONTHS 02/
T.F. 1S/N T.F. 2S/N	FA185377 FB286537
N Antenna 2 S/N	KR014266
Antenna 1 S/I	KC042309
-	
Model Number	STALKER DSR 2X

DECATUR manufacturer's the following SMD(s):

I.D./Serial Number	Model Number Antenna 1 S/N	Antenna 2 S/N T.F. 1 S/N T.F.	Antenna 2 S/N T.F. 1 S/N T.F. 2 S/N Cal. Date Cal. Interval Due Date Technician
GHD-04683	GENESIS HANDHELHANDHELD	N/A 156143 156034	34 02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD-04684	GENESIS HANDHELHANDHELD	N/A 156169 156049	49 02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD-04731	GENESIS HANDHELHANDHELD	N/A 156162 N/A	02/15/2017 24 MONTHS 02/15/2019 CHARLIE N BROWN
GHD-04737	GENESIS HANDHELHANDHELD	N/A 070682 N/A	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD-04754	GENESIS HANDHELHANDHELD	N/A 155997 N/A	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
GHD-04811	GENESIS HANDHELHANDHELD	N/A 156087 156047	47 01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
GHD-04824	GENESIS HANDHELHANDHELD	N/A 156123 170699	99 01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
GHD-04826	GENESIS HANDHELHANDHELD	N/A 55528 51531	1 01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
GHD-04828	GENESIS HANDHELHANDHELD	N/A 6728 N/A	08/27/2018 24 MONTHS 08/27/2020 NICOLAS T MOWRY
GHD-04829	GENESIS HANDHELHANDHELD	N/A 155974 N/A	03/06/2018 24 MONTHS 03/06/2020 NICOLAS T MOWRY
GHD-04831	GENESIS HANDHELHANDHELD	N/A 156072 156002	02 02/15/2017 24 MONTHS 02/15/2019 CHARLIE N BROWN
GHD-04864	GENESIS HANDHELHANDHELD	N/A 156111 155998	98 02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD-04866	GENESIS HANDHELHANDHELD	N/A 969092 969130	30 02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD-04890	GENESIS HANDHELHANDHELD	N/A 47291 N/A	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
GHD-04891	GENESIS HANDHELHANDHELD	N/A 24415 N/A	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
GHD-04897	GENESIS HANDHELHANDHELD	N/A 156170 156031	31 02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN

4 of 6

MPH INDUSTRIES manufacturer's the following SMD(s):

I.D./Serial Number	Model Number	Antenna 1 S/N Antenna 2 S/N T.F. 1 S/N	N T.F. 2 S/N	Cal. Date Cal. Interval Due Date
BEE665000388	BEE	BEN653000917 BEN653000918 747779	749718	z
BEE664008617	BEE 36	BEE113001613 BEE113000605 392243	392393	24 MONTHS 01/31/2020 NICOLAS T
664008614	BEE III	BEN653021584 BEN653021585 392233	392408	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
664008615/BEE664008615	5 BEE III	BEN653021587 BEN653021586 392276	392395	05/24/2018 24 MONTHS 05/24/2020 NICOLAS T MOWRY
664008616	BEE III	ത	392252	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
930002311	BEE III	BEN65303004 BEN65303005 298523	298529	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOVVRY
930002313	BEE III	BEN653013004 BEN653013005 965581	965546	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
930002315	BEE III	BEN653013012 BEN653013013 965532	965523	01/31/2018 24 MONTHS 01/31/2020 NICOLAS 1 MOVVRY
BEE664000372	BEE III		298681	01/31/2018 24 MONTHS 01/31/2020 NICOLAS 1 MOWRY
PYT546007251	PYTHON		413542	01/31/2018 24 MONTHS 01/31/2020 NICOLAS T MOWRY
PYT546007252	PYTHON		413531	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT546007253	PYTHON	PYT315017408 PYT315017409 44010	854609	01/31/2018 24 MONTHS 01/31/2020 NICOLAS I MOVVRY
PYT546007254	PYTHON	PYT315017411	286435	24 MONTHS 02/01/2019
PYT546007255	PYTHON	PYT315017413	413543	
PYT546007256	PYTHON		413528	24 MONTHS 01/31/2020
PYT546001907	PYTHON	PYT315008029	51534	
PYT546003677	PYTHON II	PYT315011063 PYT315017411 298415	314654	
PYT546007250	PYTHON II	PYT	965901	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT546000033	PYTHON II	PYT315004668 BEE 113001606263407	204532	01/31/2018 24 MONTHS 01/31/2020 NICULAS I IMOVVRY
PYT846005439	PYTHON II	PYT831008125 PYT831008126 490653	490701	01/31/2018 24 MONTHS 01/31/2020 NICOLAS I MOWRY
PYT846005440	PYTHON II	PYT831008127 PYT831008128 490725	490680	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT846005441	PYTHON II	PYT831008131 PYT831008132 490706	490714	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
PYT846005442	PYTHON II	PYT831008129 PYT831008130 490733	490715	
PYT846005443	PYTHON II	PYT831008133 PYT831008134 490711	490742	
PYT846003010	PYTHON III	PYT831003433 PYT855003837 390467	390461	05/19/2017 24 MONTHS 05/19/2019 CHARLIE IN BROWN
PYT846003011	PYTHON III	PYT855003888 PYT831003434 276713	276256	01/31/2018 24 MONTHS 01/31/2020 NICOLAS I MOWRY
PYT846003459	PYTHON III	PYT381004080 PYT855004542 077808	077822	02/01/2017 24 MONTHS 02/01/2019 CHARLIE IN BROWN
PYT846003460	PYTHON III	PYT831004081 PYT855004543 N/A	N/A	01/31/2018 24 MON 1 HS 01/31/2020 NICOLAS 1 MOVVR 1
PYT846003644	PYTHON III	PYT831004153 PYT855004836 077880	077834	02/01/2017 24 MON I HS 02/01/2019 CHARLIE IN BROWN
HHM556000951	SPEED GUN	HANDHELD N/A 966359	070908	02/01/2017 24 MON I HS 02/01/2019 CHARLIE IN BROWN
HHM556000952	SPEED GUN	HANDHELD N/A 964957	854604	02/01/2017 24 MON I HS 02/01/2019 CHARLIE IN BROWN
5238	VINDICATOR	N/A 72362	N/A	02/15/2017 24 MONTHS 02/15/2019 CHARLIE N BROWN
5239	VINDICATOR	HANDHELD N/A 1672	N/A	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
5240	VINDICATOR	HANDHELD N/A 298388	N/A	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
5245	VINDICATOR	N/A 6887	N/A	24 MONTHS 02/01/2019
5246	VINDICATOR	HANDHELD N/A 6886	N/A	
5250	VINDICATOR	N/A 15227	N/A	02/15/2017 24 MONTHS 02/15/2018 CHARLIE IN BINOWIN

MPH INDUSTRIES manufacturer's the following SMD(s):

LD /Serial Number	Model Number Antenna 1 S/N	Antenna 1 S/N	Antenna 2 S/N T.F. 1 S	3/N T.F. 2 S/N	Antenna 2 S/N T.F. 1 S/N T.F. 2 S/N Cal. Date Cal. Interval Due Date Technician
1	VINDICATOR	HANDHELD	N/A 156113	N/A	04/18/2018 24 MONTHS 04/18/2020 NICOLAS T MOWRY
SSOOOSAS	7-15	HANDHELD	N/A 298375	N/A	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN
	Z-15	HANDHELD	N/A 070704	N/A	02/01/2017 24 MONTHS 02/01/2019 CHARLIE N BROWN

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

Exhibit "A" derives information from the certificate management database. See Exhibit "A" for details about individual SMD certifications.

State of Washington County of King

Signed or attested before me on

by Nicolas T. Mowry

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

(a) is personally known to me; OR (b) is identified upon oath oraffirmation

of credible witness personally know to me; OR

(c) is identified on the basis of

Indentification documents.

William Quoc Ang

Notary Public in and for the State of Washington,

Residing in Seattle, WA

My appointment expires January 29, 2022

Certified by: Nicolas T. Mowry

Place: Redmond, WA-