

OFFICER COPY

Pierce County Radio Communications

1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

CERTIFICATE OF CALIBRATION & ACCURACY

, <u>Raymond Fleming ,</u> do certify under the penalty of perjury, under the laws of the State of Washington, in the Count of Pierce, that all applicable tests and measurements were made on the following Doppler Traffic Radar equipment:			
Manufacturer:	MPH Industries	Date Certified:	02/07/2022
 Model:	MPH Industries BEE III	Agency:	Steilacoom PS

Serial Number:

Departing Frequency Band:

Ka

BEE-664021141

Ka

The aforesaid radar meets and exceeds all manufacturer's specifications.

TUNING FORK

. do certify under the penalty of perjury, under the laws of the State of Washington, in the

Tuning Fork Serial No.:	67430	Date Certified:	02/07/2022
Oscillation (Cycles per Second):	2029	Agency:	Steilacoom PS
Operating Frequency Band:	Ka		
MPH:	20		

When operated between the temperature of -22F to +140F no correction is required.

TUNING FORK

I, <u>Raymond Fleming</u>, <u>do</u> certify under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the following Doppler Radar Tuning Forks:

Tuning Fork Serial No.:	67151	Date Certified:	02/07/2022
Oscillation (Cycles per Second):	5038	Agency:	Steilacoom PS
Operating Frequency Band:	Ka		
мрн:	50		

When operated between the temperature of -22F to +140F no correction is required.

I certify under penalty of perjury, under the law	s of the State of Washingtor	n, that the above statements are true and correct.
Dated and Signed at Tacoma, Washington	2/7/22 DATED	FredSIGNED



1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

			
I, Raymond Fleming ,do certify under of Pierce, that all applicable tests and r	er the penalty of perjury, under t neasurements were made on the f	he laws of the State of following Doppler Tra	Washington, in the County offic Radar equipment:
Manufacturer:	MPH Industries	Date Certified:	03/09/2022
Model:	MPH Industries BEE III	Agency:	Steilacoom PS
Serial Number:	BEE-122202781	25	
Operating Frequency Band:	Ka		
The aforesaid	radar meets and exceeds all man	ufacturer's specificati	ions.
	TUNING FORK		
I, <u>Raymond Fleming</u> , <u>do</u> certify County of Pierce, that all applicable te	under the penalty of perjury, unstained in the measurements were made	der the laws of the St e on the following Dop	ate of Washington, in the pler Radar Tuning Forks:
Tuning Fork Serial No.:	57819	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	2018	Agency:	Steilacoom PS
Operating Frequency Band:	Ka		
мрн:	20		
When operated between	ween the temperature of -22F to -	+140F no correction is	required.
	TUNING FORK		
I, Raymond Fleming , do certify County of Pierce, that all applicable te	under the penalty of perjury, unstance with the understand measurements were made	ider the laws of the St e on the following Dop	ate of Washington, in the opler Radar Tuning Forks:
Tuning Fork Serial No.:	59282	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	5042	Agency:	Steilacoom PS
Operating Frequency Band:	Ka		
MPH:	50		
When operated bet	ween the temperature of -22F to	+140F no correction is	s required.
I certify under penalty of perjury, und	er the laws of the State of Washing	ton, that the above stat	tements are true and correct.
Dated and Signed at Tacoma, Was	hington 03 09 7022	_ flery 7	SIGNED .



1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

CERTIFICATE OF CALIBRATION & ACCURACY

I, <u>Raymond Fleming</u> , do certify und of Pierce, that all applicable tests and n	er the penalty of perjury, under neasurements were made on the	the laws of the State o following Doppler Tra	f Washington, in the County ffic Radar equipment:
Manufacturer:	Decatur Electronics	Date Certified:	03/09/2022
Model:	Genesis II Directional	Agency:	Steilacoom PS
Serial Number:	G2S-22432		
Operating Frequency Band:	К		
The aforesaid	radar meets and exceeds all man	ufacturer's specificati	ons.
	TUNING FORK		
I, <u>Raymond Fleming</u> , do cert County of Pierce, that all applicable te	ify under the penalty of perjury, sts and measurements were made	under the laws of the second the second the following Dop	State of Washington, in the pler Radar Tuning Forks:
Tuning Fork Serial No.:	204702	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	2538	Agency:	Steilacoom PS
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22F to	+140F no correction is	required.
	TUNING FORK		
I, <u>Raymond Fleming</u> , do certif County of Pierce, that all applicable te	y under the penalty of perjury, u sts and measurements were made	nder the laws of the S e on the following Dop	tate of Washington, in the pler Radar Tuning Forks:
Tuning Fork Serial No.:	204778	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	4733	Agency:	Steilacoom PS
Operating Frequency Band:	<u>K</u>		
мрн:	65		
When operated bet	ween the temperature of -22F to	+140F no correction is	required.
I certify under penalty of perjury, und			

Dated and Signed at Tacoma, Washington 03/09/2022

DATED



1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

I, Raymond Fleming ,do certify und of Pierce, that all applicable tests and n	ler the penalty of perjury, under neasurements were made on the f	the laws of the State of the State of the Indian of the In	of Washington, in the County
Manufacturer:	MPH Industries	Date Certified:	03/09/2022
Model:	MPH Industries BEE III	Agency:	Steilacoom PS
Serial Number:	BEE-664016406		
Operating Frequency Band:	Ка		
The aforesaid	radar meets and exceeds all man	ufacturer's specificat	ions.
	TUNING FORK		
I, <u>Raymond Fleming</u> , do certi County of Pierce, that all applicable ter	ify under the penalty of perjury, t sts and measurements were made	under the laws of the on the following Dop	State of Washington, in the opler Radar Tuning Forks:
Tuning Fork Serial No.:	501420	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	2821	Agency:	Steilacoom PS
Operating Frequency Band:	Ка		
МРН:	28		
When operated bety	ween the temperature of -22F to +		s required.
I, <u>Raymond Fleming</u> , do certi County of Pierce, that all applicable te	TUNING FORK fy under the penalty of perjury, u sts and measurements were made	inder the laws of the	State of Washington, in the opler Radar Tuning Forks:
Tuning Fork Serial No.:	501449	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	5033	Agency:	Steilacoom PS
Operating Frequency Band:	Ка		
мрн:	50		
When operated between	ween the temperature of -22F to -	-140F no correction is	s required.
I certify under penalty of perjury, und	er the laws of the State of Washing	ton, that the above sta	tements are true and correct.
Dated and Signed at Tacoma, Was	hington 3/09/2022	- Ne	SIGNED



1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

Manufacturer:	MPH Industries	Date Certified:	03/09/2022
Model:	MPH Industries BEE III	Agency:	Steilacoom PS
Serial Number:	BEE-122200782		
Operating Frequency Band:	Ка		
The aforesaid	radar meets and exceeds all man	ufacturer's specificati	ons.
	TUNING FORK		
Raymond Fleming , do certify ounty of Pierce, that all applicable te	under the penalty of perjury, ur	ider the laws of the St	ate of Washington, in th
Tuning Fork Serial No.:	59505	Date Certified:	03/09/2022
-		Agency:	Steilacoom PS
Oscillation (Cycles per Second):	2019	Agency.	Stenacoom 15
Operating Frequency Band:	Ka		
MPH:	20		
When operated bet	ween the temperature of -22F to -	+140F no correction is	required.
When operated bet	ween the temperature of -22F to -		required.
Raymond Fleming , do certify	TUNING FORK	der the laws of the St	ate of Washington, in th
	TUNING FORK	der the laws of the St	ate of Washington, in th
Raymond Fleming , do certifounty of Pierce, that all applicable te	TUNING FORK under the penalty of perjury, unstrained with the standard standard with the standard stan	nder the laws of the St e on the following Dop	ate of Washington, in th pler Radar Tuning For
Raymond Fleming , do certife county of Pierce, that all applicable te	TUNING FORK y under the penalty of perjury, un sts and measurements were made	nder the laws of the St e on the following Dop Date Certified:	ate of Washington, in th pler Radar Tuning For 03/09/2022
Raymond Fleming , do certify ounty of Pierce, that all applicable to Tuning Fork Serial No.: Oscillation (Cycles per Second): Operating Frequency Band:	TUNING FORK y under the penalty of perjury, un sts and measurements were made 59283 5041 Ka	nder the laws of the St e on the following Dop Date Certified:	ate of Washington, in th pler Radar Tuning For 03/09/2022
Raymond Fleming , do certifounty of Pierce, that all applicable te Tuning Fork Serial No.: Oscillation (Cycles per Second):	TUNING FORK y under the penalty of perjury, un sts and measurements were made 59283 5041	nder the laws of the St e on the following Dop Date Certified:	ate of Washington, in th pler Radar Tuning For 03/09/2022
Raymond Fleming , do certifounty of Pierce, that all applicable te Tuning Fork Serial No.: Oscillation (Cycles per Second): Operating Frequency Band: MPH:	TUNING FORK y under the penalty of perjury, un sts and measurements were made 59283 5041 Ka	nder the laws of the Steen the following Dop Date Certified: Agency:	ate of Washington, in the pler Radar Tuning For 03/09/2022 Steilacoom PS
Raymond Fleming , do certification of Pierce, that all applicable to Tuning Fork Serial No.: Oscillation (Cycles per Second): Operating Frequency Band: MPH:	TUNING FORK y under the penalty of perjury, un sts and measurements were made 59283 5041 Ka 50 ween the temperature of -22F to	nder the laws of the Ste on the following Dop Date Certified: Agency:	ate of Washington, in topler Radar Tuning Fo 03/09/2022 Steilacoom PS



1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

Manufacturer:	Decatur Electronics	Date Certified:	03/09/2022
Model:	Genesis II Select	Agency:	Steilacoom PS
Serial Number:	G2S-26208	_	
Operating Frequency Band:	K	=	
The aforesaid	radar meets and exceeds all r	nanufacturer's specificat	ions.
	TUNING FOR	RK.	
Raymond Fleming do cert ounty of Pierce, that all applicable te	ify under the penalty of perju	ry, under the laws of the	State of Washington, in t
Tuning Fork Serial No.:	222754	Date Certified:	03/09/2022
Oscillation (Cycles per Second):		Agency:	Steilacoom PS
		- Agency.	Stellacoolii 15
Operating Frequency Band:	K	-	
MPH:	35	_	
	(I 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	to +140F no correction is	s required.
When operated bet	ween the temperature of -22F	to 11401 no correction is	
When operated bet	TUNING FO		
·	TUNING FO	RK ry, under the laws of the	State of Washington, in t
Raymond Fleming , do cert	TUNING FO	RK ry, under the laws of the	State of Washington, in t
Raymond Fleming , do cert ounty of Pierce, that all applicable te	TUNING FOR	RK ry, under the laws of the ade on the following Dop	State of Washington, in t opler Radar Tuning Fork
Raymond Fleming , do cert ounty of Pierce, that all applicable te Tuning Fork Serial No.:	TUNING FOR	RK ry, under the laws of the ade on the following Dop Date Certified:	State of Washington, in topler Radar Tuning Fork
Raymond Fleming do cert ounty of Pierce, that all applicable te Tuning Fork Serial No.: Oscillation (Cycles per Second):	TUNING FOR ify under the penalty of perjusts and measurements were made with the second secon	RK ry, under the laws of the ade on the following Dop Date Certified:	State of Washington, in topler Radar Tuning Fork
Raymond Fleming do cert ounty of Pierce, that all applicable te Tuning Fork Serial No.: Oscillation (Cycles per Second): Operating Frequency Band:	TUNING FOR ify under the penalty of perjusts and measurements were	RK ry, under the laws of the ade on the following Dop Date Certified:	State of Washington, in topler Radar Tuning Fork
Raymond Fleming, do cert ounty of Pierce, that all applicable te Tuning Fork Serial No.: Oscillation (Cycles per Second): Operating Frequency Band: MPH:	TUNING FOR ify under the penalty of perjusts and measurements were	RK ry, under the laws of the ade on the following Dop Date Certified: Agency:	State of Washington, in topler Radar Tuning Fork 03/09/2022 Steilacoom PS



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CERTIFICATE OF CALIBRATION & ACCURACY

Manufacturer:	Decatur Electronics	Date Certified:	03/09/2022
Model:	Genesis II Select	Agency:	Steilacoom PS
Serial Number:	G2S-36360		
Operating Frequency Band:	К		
The aforesaid	radar meets and exceeds all ma	nufacturer's specificat	ions.
	TUNING FORE	C	
Raymond Fleming , do cert county of Pierce, that all applicable te	ify under the penalty of perjury sts and measurements were ma	, under the laws of the de on the following Dop	State of Washington, in the pler Radar Tuning Forks:
Tuning Fork Serial No.:	273601	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	2537	Agency:	Steilacoom PS
Operating Frequency Band:	К		
мрн:	35	1.6	
When operated bet	ween the temperature of -22F to	+140F no correction is	s required.
·	TUNING FOR		
, <u>Raymond Fleming</u> , do cert County of Pierce, that all applicable te	ify under the penalty of perjury	, under the laws of the	State of Washington, in the opler Radar Tuning Forks:
Tuning Fork Serial No.:	277842	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	4719	Agency:	Steilacoom PS
Operating Frequency Band:	K		
	65		

I certify under penalty of perjury, under the laws of the State of Washington, that the above statements are true and correct.

Dated and Signed at Tacoma, Washington _03



1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

I, Raymond Fleming ,do certify und of Pierce, that all applicable tests and n	ler the penalty of perjury, under	the laws of the State o	f Washington, in the County offic Radar equipment:
Manufacturer:	MPH Industries	Date Certified:	03/09/2022
Model:	MPH Industries BEE III	Agency:	Steilacoom PS
Serial Number:	BEE-122201340	3	
Operating Frequency Band:	Ka		
The aforesaid	radar meets and exceeds all man	ufacturer's specificat	ions.
	TUNING FORK		
I, <u>Raymond Fleming</u> , <u>do certify</u> County of Pierce, that all applicable ter	under the penalty of perjury, unsts and measurements were made	nder the laws of the St e on the following Dop	ate of Washington, in the pler Radar Tuning Forks:
Tuning Fork Serial No.:	756609	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	2018	Agency:	Steilacoom PS
Operating Frequency Band:	Ка		
мрн:	20		
When operated between	ween the temperature of -22F to -	 -140F no correction is	required.
	TUNING FORK		
I, <u>Raymond Fleming</u> , <u>do certify</u> County of Pierce, that all applicable ter	under the penalty of perjury, ur sts and measurements were made	nder the laws of the St e on the following Dop	ate of Washington, in the pler Radar Tuning Forks:
Tuning Fork Serial No.:	756694	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	5042	Agency:	Steilacoom PS
Operating Frequency Band:	Ка		
мрн:	50		
When operated between	ween the temperature of -22F to -	+140F no correction is	required.
I certify under penalty of perjury, und	er the laws of the State of Washing	ton, that the above stat	ements are true and correct.
Dated and Signed at Tacoma, Was	hington 03/09/7022	- 1 km	SIGNED .



1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

CERTIFICATE OF CALIBRATION & ACCURACY

Manufacturer:	MPH Industries	Date Certified:	03/09/2022
Model:	MPH Python	Agency:	Steilacoom PS
Serial Number:	PYT546006652		
Operating Frequency Band:	K		
The aforesaid	radar meets and exceeds all man	ufacturer's specificat	ions.
	TUNING FORK		
, <u>Raymond Fleming</u> , <u>do</u> certify County of Pierce, that all applicable te	under the penalty of perjury, un sts and measurements were made	der the laws of the Sta e on the following Dop	ate of Washington, in the opler Radar Tuning Forks:
Tuning Fork Serial No.:	308554	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	2522	Agency:	Steilacoom PS
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22F to	+140F no correction is	s required.
	TUNING FORK		
, <u>Raymond Fleming</u> , <u>do</u> certify County of Pierce, that all applicable te	under the penalty of perjury, un sts and measurements were made	der the laws of the St e on the following Dop	ate of Washington, in the opler Radar Tuning Forks:
Tuning Fork Serial No.:	308340	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	4679	Agency:	Steilacoom PS
Operating Frequency Band:	K		
MPH:	65		

I certify under penalty of perjury, under the laws of the State of Washington, that the above statements are true and correct.

Dated and Signed at Tacoma, Washington 03/09/707Z
DATED



1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

I, Raymond Fleming .do certify unde of Pierce, that all applicable tests and r	er the penalty of perjury, under the neasurements were made on the f	ne laws of the State of following Doppler Tra	Washington, in the County ffic Radar equipment:
Manufacturer:	MPH Industries	Date Certified:	03/09/2022
Model:	MPH Python	Agency:	Steilacoom PS
Serial Number:	PYT546004626		
Operating Frequency Band:	K		
The aforesaid	radar meets and exceeds all man	ufacturer's specificati	ons.
	TUNING FORK		
I, <u>Raymond Fleming</u> , do cert County of Pierce, that all applicable te	ify under the penalty of perjury, sts and measurements were made	under the laws of the a on the following Dop	State of Washington, in the pler Radar Tuning Forks:
Tuning Fork Serial No.:	290946	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	2542	Agency:	Steilacoom PS
Operating Frequency Band:	K		
мрн:	35		
	all		
When operated bet	ween the temperature of -22F to -	-140F no correction is	required.
TUNING FORK I, Raymond Fleming do certify under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the following Doppler Radar Tuning Forks:			
Tuning Fork Serial No.:	280652	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	4729	Agency:	Steilacoom PS
Operating Frequency Band:	<u>K</u>		
мрн:	65	27	
When operated between the temperature of -22F to +140F no correction is required.			
I certify under penalty of perjury, under the laws of the State of Washington, that the above statements are true and correct.			
Dated and Signed at Tacoma, Was	hington <u>03/09/2072</u> DATED	- flery	SIGNED



1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

CERTIFICATE OF CALIBRATION & ACCURACY

I, Raymond Fleming ,do certify und of Pierce, that all applicable tests and i	ler the penalty of perjury, under neasurements were made on the	the laws of the State o following Doppler Tra	of Washington, in the County offic Radar equipment:
Manufacturer:	MPH Industries	Date Certified:	03/09/2022
Model:	MPH Python	Agency:	Steilacoom PS
Serial Number:	PYT546007663	-	
Operating Frequency Band:	К		
The aforesaid	radar meets and exceeds all man	ufacturer's specificati	ions.
	TUNING FORK		
I, <u>Raymond Fleming</u> , do cert County of Pierce, that all applicable te	ify under the penalty of perjury, sts and measurements were made	under the laws of the e on the following Dop	State of Washington, in the pler Radar Tuning Forks:
Tuning Fork Serial No.:	308539	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	2519	Agency:	Steilacoom PS
Operating Frequency Band:	K		8
MPH:	35		
When operated between	ween the temperature of -22F to -	-140F no correction is	required.
	TUNING FORK		
I, <u>Raymond Fleming</u> , do certi County of Pierce, that all applicable te	fy under the penalty of perjury, t sts and measurements were made	under the laws of the S e on the following Dop	State of Washington, in the opler Radar Tuning Forks:
Tuning Fork Serial No.:	308039	Date Certified:	03/09/2022
Oscillation (Cycles per Second):	4683	Agency:	Steilacoom PS
Operating Frequency Band:	K		
мрн:	65		*

When operated between the temperature of -22F to +140F no correction is required.

I certify under penalty of perjury, under the laws of the State of Washington, that the above statements are true and correct.

Dated and Signed at Tacoma, Washington 03 09 7077 //



1422 112th Street East Tacoma, Washington 98445 (253) 798-7147

Manufacturer:	Decatur Electronics	Date Certified:	03/14/2022
Model:	Genesis VPD	Agency:	Steilacoom PS
Serial Number:	04025	_	
Operating Frequency Band:	K	-	
The aforesaid	radar meets and exceeds all n	nanufacturer's specificat	ions.
	TUNING FOR	K	
Raymond Fleming , do certify to county of Pierce, that all applicable te	ınder the penalty of perjury, ı sts and measurements were m	inder the laws of the Sta	te of Washington, in the opler Radar Tuning Forks
Tuning Fork Serial No.:	147326	Date Certified:	03/14/2022
Oscillation (Cycles per Second):	2392	Agency:	Steilacoom PS
Operating Frequency Band:	K	- " '	
	33	-	
МРН:	33		
+	ween the temperature of -22F	to +140F no correction i	s required.
When operated bet	ween the temperature of -221	to . I lot no constitution .	
When operated bet	TUNING FO		
	TUNING FO	RK , under the laws of the S	tate of Washington, in the
Raymond Fleming . do certif	TUNING FO	RK , under the laws of the S	tate of Washington, in the
Raymond Fleming , do certif County of Pierce, that all applicable te	TUNING FOR younder the penalty of perjury sets and measurements were made 147436	RK , under the laws of the S ade on the following Do	tate of Washington, in the ppler Radar Tuning Fork
Raymond Fleming , do certife tounty of Pierce, that all applicable to Tuning Fork Serial No.:	TUNING FOR younder the penalty of perjury sets and measurements were made 147436	RK , under the laws of the S ade on the following Do Date Certified:	tate of Washington, in the ppler Radar Tuning Forks
Raymond Fleming , do certify tounty of Pierce, that all applicable to Tuning Fork Serial No.: Oscillation (Cycles per Second): Operating Frequency Band:	TUNING FOLY under the penalty of perjury ests and measurements were made 147436	RK , under the laws of the S ade on the following Do Date Certified:	tate of Washington, in the ppler Radar Tuning Forks
Raymond Fleming , do certify County of Pierce, that all applicable te Tuning Fork Serial No.: Oscillation (Cycles per Second):	TUNING FOI y under the penalty of perjury ests and measurements were m 147436 5592	RK , under the laws of the S ade on the following Do Date Certified:	tate of Washington, in the ppler Radar Tuning Forks
Raymond Fleming , do certify County of Pierce, that all applicable to Tuning Fork Serial No.: Oscillation (Cycles per Second): Operating Frequency Band: MPH:	TUNING FOI y under the penalty of perjury ests and measurements were m 147436 5592	RK , under the laws of the S ade on the following Do Date Certified: Agency:	tate of Washington, in the ppler Radar Tuning Fork 03/14/2022 Steilacoom PS



1422 112th Street East Tacoma, Washington 98445

(253) 798-7147

CERTIFICATE OF ACCURACY

I, Raymond S Fleming, do certify under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the laser Speed Measuring Device (SMD) listed below. The SMD was found to meet or exceed all manufacturer's specifications.				on the		
Laser SMD Inform	ation an	d Certification Su	mmary			
Manufacturer:	Laser Te	chnology, Inc	Date Certified:	03/14/2	2022	
Model:	TruSpee	d	Agency:	Steilaco	oom PD	
Serial Number:	TJ00460	1				
Distance Tests						
Long Range.		Expected: 204.5 ft	Tested: 204.4ft	[] N/A	[X]Pass	[] Fail
Operational Tests Controls Operational RFI Indicator Pulse Characteristic		* * * * *	(* * * * * * * * * * * * * * * * * * *	[] N/A	[X] Pass	[] Fail
Pulse Frequency (Rep	Rate) .	Expected:199- 200Hz	Tested: 200.00 Hz	[] N/A	[X]Pass	[] Fail
Pulse Width .		Expected: <=25 nS	Tested: 7.50 nS	[] N/A	[X]Pass	[] Fail
Double Pulse .				[] N/A	[X] Pass	[] Fail
Beam Characteristics Tests						
Optical Power .		Expected: 7-800 mW	Tested: 718.3 mW	[] N/A	[X] Pass	[] Fail
Horizontal Beam Wie				[] N/A	[X] Pass	[] Fail
Vertical Beam Width				[] N/A	[X] Pass	[] Fail
Sight Alignment.		8 8 32° 2 8	19	[] N/A	[X] Pass	[] Fail
I certify under penalty of perjury, under the laws of the State of Washington, that the foregoing is true and				rue and		

Dated and Signed at Tacoma, Washington 03 14 7072 Aug SIGNED



CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION OF ELECTRONIC SPEED MEASURING DEVICES

I, Raymond Fleming, do certify under penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that the following is true and correct:

I am employed with Pierce County as a Communications Systems Technician, Speed Measuring Device (SMD) Specialist, and assigned as the custodian of the SMD records. I have been employed in this capacity since Aug 29th, 2016. Part of my duties include the maintenance and repair of all types of electronic radar and laser speed measuring devices (SMD's) used by the Steilacoom Police Department.

The Steilacoom Police Department currently uses the following SMD's:

SMD TYPE:	MODEL:	MANUFACTURE:
Radar	Genesis VPD	Decatur Electronics
Radar	Genesis II Directional	Decatur Electronics
Radar	Genesis II Select	Decatur Electronics
Radar	BEE-III	MPH Industries
Radar	Python	MPH Industries
Laser	TruSpeed	Laser Technology

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

I have twenty-five years combined military and civilian experience as a communications specialist in the maintenance and repair of electronics equipment and four years with Pierce County repairing, maintaining, and certifying SMD's for cities throughout the state. I received training from the following manufacturers as well as from the Pierce County Lead Systems Technician. On March 22, 2017 I successfully completed the MPH Industries course in operation and maintenance of Doppler traffic radar and traffic laser. On April 4th, 2019 I successfully completed the Laser Technology Inc, course for factory service training on the LTI Tru-Speed series laser radar.

The Pierce County Radio Communications Division maintains manuals for all of the above listed SMD's. I am personally familiar with those manuals and know how each of the SMD's are designed and operated. From March 27th, 2017, to March 15th, 2022, I performed a majority of the SMD testing. The units are evaluated and certified to meet or exceed existing performance standards.

The Pierce County Radio Communications Division maintains a testing and certification program for the Steilacoom Police Department wherein each SMD is inspected and checked every 24 months by the following means:

Radar SMD's utilize the Doppler effect to measure speed. Testing consists of using a precision signal generator to inject a signal into the SMD to simulate speeds of 35mph and 65mph for the stationary/moving radars. It also includes injection of a signal to simulate 35mph for stationary radar only. The signal must cause the SMD to display the exact speed, ± 1 mile per hour, in order to be certified for accuracy. I then measure the frequency of the tuning fork(s) assigned to each SMD to ensure that they are within \pm 5Hz tolerance. I issue a certificate of accuracy for both the SMD and the tuning fork(s). The original certificates are issued to the Steilacoom Police Department who in turn issues a copy to the court. I also retain a copy for my records along with the maintenance and service records for each SMD serviced.

Laser SMD's measure speed based on the velocity of light and a precision time base reference. Testing consists of three accuracy certification checks (1) Internal Self-Test (2) Pulse Check to include pulse width, power output, pulse repetition rate, and double pulse (3) and a Distance Check to include sight alignment, vertical, and horizontal beam width \geq 200 feet. The checks ensure that the SMD is within tolerance and functioning properly. I then issue a certificate of accuracy for each SMD. The original certificates are issued to the Steilacoom Police Department who



in turn issues a copy to the Court. I also retain a copy for my records along with the maintenance and service records for each SMD serviced.

All radar SMD's operated by the Steilacoom Police Department directly measure by digital message from the Doppler signal. They do not reconstitute the Doppler signal in any way, including the use of devices such as a phase lock loop (PLL), before the speed is measured.

Based upon my education, training and experience, and my knowledge of the radar 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 laser SMD's, 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.

I certify under the penalty of perjury, under the laws of the State of Washington, that the foregoing is true and correct.

Raymond Fleming

Communications Systems Technician/ Speed Measuring Device Specialist

Signed and dated at Tacoma, Washington Pierce County

SUBSCRIBED AND SWORN TO BEFORE ME THIS 15 TO DAY OF

Notary Public in and for the State of Washington, County of Pierce.

Commission expires 111512022