

CERTIFICATE CONCERNING DESIGN AND CONSTRUCTION OF ELECTRONIC SPEED MEASURING DEVICES

I, Nathan Dumler, do certify under penalty of the laws of the State of Washington that the following is true and correct:

I have been employed as a technician by American Traffic Solutions for 3 years. I became a speed validation technician in 2018 and have over 1000 hours performing speed validation tests. I am nationally certified as a RADAR and LIDAR operator. The City of Kirkland currently uses the AutoPatrolTM 3D radar fixed speed safety camera system, an electronic speed measuring device provided through a contract with American Traffic Solutions, Inc. ("ATS"). Part of my duties include monitoring regular testing of the AutoPatrol 3D radar fixed speed safety camera systems used by the City of Kirkland.

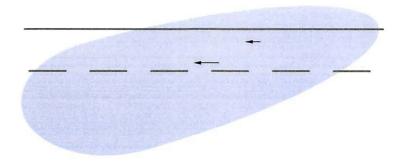
ATS contracted with the City of Kirkland to provide an Automated Speed Enforcement ("ASE") system designed to record the speed of a vehicle and obtain photographs or other recorded images of the vehicle and the vehicle's registration plate while the vehicle is traveling in excess of speed limits in certain safety zones within posted limits.

The ASE program includes the use of the AutoPatrol 3D radar fixed speed safety camera systems at the following locations within the City of Kirkland:

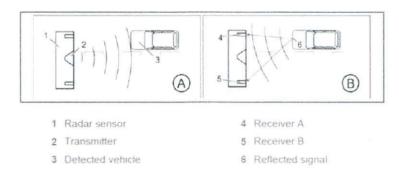
Location Code	Location Description	Lanes Monitored
KRKF001	NB 132 nd Ave NE @ Muir Elementary/Kamiakin Middle	1
KRKF002	SB 132 nd Ave NE @ Muir Elementary/Kamiakin Middle	1
KRKF003	EB 80th St @ Rose Hill Elementary	1
KRKF004	WB 80 th St @ Rose Hill Elementary	1

The AutoPatrol 3D radar fixed speed safety camera system operates by measuring vehicle speed, as well as position relative to the radar to calculate and differentiate multiple vehicles in the radar beam. The speed of a moving vehicle is measured by Doppler radar. Doppler radar is a generally accepted technology used for measuring speed. The AutoPatrol 3D radar technology is used throughout the US and Europe as well as other countries and is approved by the Swiss national metrology institute- METAS.

The AutoPatrol 3D radar fixed speed safety camera system uses a tracking radar sensor for measuring vehicle speeds and detecting speed violations. The AutoPatrol 3D radar is aligned at a fixed angle across the road. The AutoPatrol 3D radar emits a horizontal beam over the road surface as represented by the illustration below. The tracking radar can simultaneously detect multiple vehicles and measure their speed, distance, angle and movement within the radar beam. The radar tracks multiple vehicles by reconstructing vehicle movement from the measured object speed, angle and distance values. If a vehicle passes a defined trigger line, the radar outputs the vehicle's speed and lane information. The camera connected to the tracking radar uses this information to determine if there is a speed violation and to capture photographs showing the measured speed and lane on the databar of the captured images.



The tracking radar utilizes the Doppler Effect for speed determination. If an electromagnetic wave is emitted at a moving object, then the wave is reflected back from the moving object. The frequency of the wave received back by the radar shifts based on the speed of the moving object and its direction of travel. The tracking radar continuously determines this frequency shift of each object to calculate the object's speed. The tracking radar consists of two receiving antennas integrated into a single radar sensor. This configuration allows the radar to measure the distance and angle of the vehicle relative to the position of the radar sensor. Illustration A and B show the measurement principle in simplified form. The radar sensor emits a radar beam (illustration A). The radar beam is reflected by the vehicle (illustration B). The two receivers receive the reflected radar beam. The radar sensor evaluates the return frequency, as well as the phase difference of the reflected radar beam from both of the receivers. With the aid of these values the radar sensor calculates the vehicle position.



Prior to operation each day, the system performs a system self-test. This self-test performs an electronic tuning fork test to produce a specific frequency and returns an associated speed value. Only if the return value meets the acceptance criteria to show that the system is operating correctly will the system enter measure mode. Unless a self-test is successful, the system will not enter measure mode and no violations will be captured. Additional information stored as metadata within each image includes coordinates of the vehicle position at the time of capture. This information is extracted and utilized through a secondary speed verification process to provide yet another means to validate offender speed and position based on the two images obtained and image analytics. In addition to the internal system checks and the manufacturer calibration certification, the 3D radar system is subject to routine and independent calibration check of the speeds produced by the system at least annually by a qualified technician.

Each day the computer which controls the fixed speed safety camera system is rebooted. The reboot is initiated each day and each time the computer is rebooted an internal check is performed on all operations of each fixed speed safety camera system, including the clocks, sensors, camera and speed calculating hardware and software, in order to verify that all operations are functioning correctly. When the internal check detects a problem with one of the operations on a given fixed speed safety camera system, then that particular fixed

speed safety camera system is inactivated and a request for service is relayed to ATS support personnel. This means that violations cannot be issued until any internal problem is fixed.

Speed validation tests are regularly performed on each installed and operable AutoPatrol 3D radar fixed speed safety camera system. The test is conducted by having a LIDAR Operator obtain true measurements of up to five vehicles per lane in the ascending and/or descending direction. The speed of the vehicle is captured by the LIDAR Operator and then relayed via cellular to an ATS Technician. The ATS Technician then compares the vehicle speed measured by the AutoPatrol 3D radar fixed speed safety camera system to the speed measured by the LIDAR Operator to ensure the accuracy of the AutoPatrol 3D radar fixed speed safety camera system. ATS maintains the results of each test in a Validation Report. The speed validation for each system was performed on the following date and the systems at each location were found to be in proper working order:

Location Code	Location Description	Date of Test
KRKF001	NB 132 nd Ave NE @ Muir Elementary/Kamiakin Middle	10/28/2021
KRKF002	SB 132 nd Ave NE @ Muir Elementary/Kamiakin Middle	10/28/2021
KRKF003	EB 80th St @ Rose Hill Elementary	10/28/2021
KRKF004	WB 80th St @ Rose Hill Elementary	10/28/2021

Preventative maintenance, including visual inspections, is regularly performed on the AutoPatrol 3D radar fixed speed safety camera systems. Preventative maintenance activities include: cleaning of the cameras and housing, general site inspection of environment and road conditions, inspection of poles, bases and enclosures, and inspection of system cables and connections. The location and date that preventative maintenance is performed is recorded in the Preventative Maintenance Log, which along with the Validation Report(s) referenced above, is attached hereto.

I am a custodian, or otherwise qualified witness, as to the attached records. I make this declaration based on personal knowledge, and if called and sworn as a witness, I could and would testify as set forth in the following paragraph.

Attached as Exhibits are: Exhibit A - Speed Validation Reports, Exhibit B - Preventative Maintenance Logs, and Exhibit C - Annual System Verification Certificate for all AutoPatrol 3D radar fixed speed safety camera systems installed and used by the City of Kirkland. All documents and materials included as Exhibit A, Exhibit B and Exhibit C are authentic and are what they purport to be, and accurately describe the matters set forth therein. All such records are business records in that they are: (1) records kept in the ordinary course of business; (2) created at or near the time of the transactions or events reflected therein by, or based on information from, a person with knowledge of the transaction or events; and (3) kept as part of a regular business activity.

Based upon my education, training, experience, and knowledge of the AutoPatrol 3D radar fixed speed safety camera system, it is my opinion that the system is so designed and constructed as to accurately employ measurement techniques based on a division of distance over time in such a manner that it will give accurate measurements of the speed of motor vehicles.

I, Nathan Dumler, certify (or declare) under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

Dated this 7th day of December . 2021 in Mesa, AZ

Nathan Dumler, Speed Validation Technician

nother Dumlen



Speed Validation Report Client: Kirkland, WA

DEC - 7 2021

KIRKLAND

MUNICIPAL COURT

Validation Date October 28, 2021

- KRKF001 NB 132nd Ave NE @ Muir Elementary/Kamiakin Middle
 - o Radar Serial Number: 590-112/61501
- KRKF002 SB 132nd Ave NE @ Muir Elementary/Kamiakin Middle
 - o Radar Serial Number: 590-112/65874
- KRKF003 EB 80th St @ Rose Hill Elementary
 - o Radar Serial Number: 590-112/61399
- KRKF004 WB 80th St @ Rose Hill Elementary
 - o Radar Serial Number: 590-112/63276

Equipment:

Pro-Lite Plus Hand held Lidar Serial Number: LP05509

Certification Date: January 14th, 2021 Lidar Operator: Charles Goodrich RLC Operator: Nathan Dumler RLC Operator: Julian Marsh-Brooks

A speed validation test was conducted for the sites listed above. The Lidar Operator, obtained true measurements of five vehicles per lane in the ascending and/or descending direction. Those speeds were obtained using a Kustom Signals Pro-Lite+ hand held Lidar instrument. The speed of the vehicle is captured by the Lidar Operator and then relayed via cellular to the RLC Technician. The RLC Technician is monitoring the vehicle speed at the Fixed Speed Camera system simultaneously to ensure the accuracy of the system. The speed validation tests performed on the above-listed dates confirmed the accuracy of the Fixed Speed Camera systems at each location.

I, Nathan Dumler, certify that the information contained in this report is true and accurate.

Date: December 7th, 2021

hon Sumler

Mesa, Arizona

American Traffic Solutions Speed Integrity Team



Certificate of Achievement

Speed Integrity Technician Has successfully completed the 16 hour course for

This course encompasses all the necessary tasks required to perform the duties as a Speed Integrity Technician. Through this course each participant is required to display the proper competency through written and practical examinations. In addition, this course certifies each participants as a Lidar operator.

Charles Goodrich Presented to:

March 29, 2016 This Day:

American Traffic Solutions

Police Traffic Laser/Radar Instructor

American Traffic Solutions, Inc., 7681 East Gray Road, Soltfadale, AZ 85260

Certificate of Achievement

Speed Integrity Technician Has successfully completed the course for Speed Inegrity Technician

This course encompasses all the necessary tasks required to perform the duties as a Speed Integrity Technician. Through this course each participant is required to display the proper competencies in Radar and Laser Technology. In addition, this course certifies each participants as a Lidar operator.

Jared Thompson

August 10, 2021 This Day:

American Traffic Solutions

Tylor Yochim



Certificate of Achievement

Speed Integrity Technician Has successfully completed the course for Speed Inegrity Technician

This course encompasses all the necessary tasks required to perform the duties as a Speed Integrity Technician. Through this course each participant is required to display the proper competencies in Radar and Laser Technology. In addition, this course certifies each participants as a Lidar operator.

Katherine Vasquez

This Day:

August 10, 2021

American Traffic Solutions

Tylor Yochim Radar Instructor

American Traffic Solutions, Inc., 7681 East Gray Road, Scottsdale, AZ 85260



SOUTHERN CALIFORNIA RADAR/LASER CERTIFICATION LABORATORY

P.O. Box 2397 Borrego Springs, CA 92004 619-922-3504

I certify that the Kustom Pro-Lite+, Serial Number LP05509 was tested on January 14, 2021, and was calibrated to be within the Manufacturers specifications for accuracy.

- · This unit meets or exceeds the NHTSA standards for accuracy.
- · This unit is on the IACP Conforming Product List.
- This units tests meet the standard set forth in evc 40802().

Test Results

	,	rest Result	3	,
Test	Min	Max	Read	Pass
Visual/Function		-	Inspect	Yes
Range @ 100 ft.	5	+.5	100.0	Yes
Beam Width		.003	.0013	Yes
Acquisition Time @ 60MPH	-	.3Sec	.18Sec	Yes
35MPH	-2 MPH	+1MPH	35MPH	Yes
50MPH	-2 MPH	+1MPH	50MPH	Yes
65MPH	-2 MPH	+1MPH	65MPH	Yes
Pulse Width	~	<100nS	22.4nS	Yes
PRF	200	200	200	Yes
Sight Accuracy	N/A	003	.001	Yes
Oscillator	19.9980	20.0020	19.999 MHz	Yes
Frequency	MHz	MHz		
Beam Power	-	175uW	151 uW	Yes
Total/7mm		26uW	15.5uW	Yes

This unit was thoroughly tested for accuracy using NHTSA and Massificturers and mathods with equipment specifically designed and ball to ensure precision measurements ander controlled consistent. This seril passed all applicable tests and is hereby comfined to operate within the manifecturer's operationism and to conform to NHTSA manifolds to be accurate in the reseasonment of the speed of any vessels.

The Original of this document has an embossed scal over the signature

I certify (or declare) under the penalty of perjury under the laws of the state of California that the foregoing is true and correct.

By: Date: January 14, 2021 William F. Dunable, MS/CIS, FCC Lic. # PG-11SD-2354

> Serving Law Enforcement Since 1995 www.SoCalRadar-laserCertificationLab.com



Date: 10/28/2021



SELF-ACCURACY TEST

Kustom Signals Pro-Lite+ Lidar Speed Measurement Tool

DATE:10/28/2021
Start of shift "Self Diagnostic test" time:11:45 AM
Start of shift Distance check:100'lidar
End of shift "Self Diagnostic test" time:1:00 PM
End of shift Distance check:100'
City and State:Kirkland, WA
Lidar Serial Number:LP05509
Certification Date:January 14th, 2021
OPERATOR:Charles Goodrich
I, Charles Goodrich, certify that the Kustom Signals Pro-Lite+ Lidar speed measurement device was setup, tested, and operated in accordance with the manufactures specifications to include its self-diagnostic check.
Further, I certified that the self-check distance was completed and accurate.
Signature: a





Date			10/28/2021			
Time			11:55am			
Site ID				KRKF0	01	
Location	ocation			rkland, Was	hington	
Address			NB 132nd Ave N	E @ Muir Elem	entary/Kamiakin Middle	
Posted Spec	ed Limit			20MPI	Н	
Trigger Speed Limit				26MPI	Н	
Speed Type				Schoo	ol	
Lidar Technician				Charles Go	odrich	
AutoPatrol Technician			Katherine Vasquez			
Lidar Serial Number			LP05509			
Radar Serial	Radar Serial Number			590-112 / 61501		
Detection Ty	/pe		Autopatrol-Radar Yes			
Measure Mo	ode Captur					
Photo enfor	cement sig	ns present		Yes		
Pass/ Fail				Pass		
Ascending o	or Descend	ing		Descend	ding	
City Lane	Times	Lidar Speeds	AP Speeds	Delta	Comments	
1	11:55:32	31	32	1		
1	11:55:50	26	26	0		
1	11:55:55	25	25	0		
1	11:55:59	25	25	0		
1	11:56:50	19	19	0		





Date	Date			10/28/2021			
Time			11:52am				
Site ID				KRKF0	02		
Location				Kirkland,	, WA		
Address			SB 132nd Ave N	E @ Muir Elem	entary/Kamiakin Middle		
Posted Spe	ed Limit			20MP	Н		
Trigger Spe	ed Limit			26MP	Н		
Speed Type				Schoo	ol		
Lidar Techn	ician			Charles Go	odrich		
AutoPatrol 1	AutoPatrol Technician			Katherine V	asquez		
Lidar Serial Number			LP05509				
Radar Seria	Number		590-112 / 65874 Autopatrol-Radar				
Detection T	/pe						
Measure Mo	ode Captur	e		Yes			
Photo enfor	cement sig	ns present		Yes			
Pass/ Fail				Pass			
Ascending of	or Descend	ing		Descend	ling		
City Lane	Times	Lidar Speeds	AP Speeds	Delta	Comments		
1	11:52:09	32	32	0			
1	11:52:45	33	32	-1			
1	11:52:37	24	24	0			
1	11:53:03	33	34	1			
1.	11:53:33	19	18	-1	ANGELIA DEL LEGA		





Date				10/28/20	21
Time			12:47pm		
Site ID				KRKF0	03
Location			Ki	rkland, Was	hington
Address			EB 80th	St @ Rose	Hill Elementary
Posted Spee	ed Limit			20MP	Н
Trigger Spe	ed Limit			26MP	H
Speed Type				Schoo	ol
Lidar Techni	ician			Charles Go	odrich
AutoPatrol T	echnician		Jared Thompson		
Lidar Serial Number			LP05509		
Radar Serial	Number		590-113 / 64005		
Detection Ty	/pe		Autopatrol-Radar		
Measure Mo	de Captur	e	Yes		
Photo enfor	cement sig	ns present	Yes		
Pass/ Fail			Pass		
Ascending of	r Descend	ing		Descend	ding
City Lane	Times	Lidar Speeds	AP Speeds	Delta	Comments
1	12.47.00	25	25	0	
1	12.47.40	27	26	-1	
1	12.47.44	27	27	0	
1	12.48.07	26	26	0	
1	12.48.39	26	25	-1	





Date				10/28/20	21	
Time			12:49pm			
Site ID	Site ID			KRKF004		
ocation			Ki	rkland, Was	hington	
Address	Address			St @ Rose	Hill Elementary	
Posted Spee	ed Limit			20MPI	Н	
Trigger Spe	ed Limit			26MPI	H	
Speed Type				Schoo	ol .	
Lidar Techni	ician			Charles Go	odrich	
AutoPatrol Technician			Jared Thompson			
Lidar Serial Number			LP05509			
Radar Serial	Number		590-112 / 63276			
Detection Ty	/pe		Autopatrol-Radar			
Measure Mo	ode Captur	e	Yes			
Photo enfor	cement sig	ns present	Yes			
Pass/ Fail			Pass			
Ascending o				Descend		
City Lane	Times	Lidar Speeds	AP Speeds	Delta	Comments	
1	12.49.44	22	22	0		
1	12.49.57	24	24	0		
1	12.50.33	25	24	-1		
1	12.50.41	24	25	1		
1	12.51.34	22	23	1		



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ted-Iron: (856 1311-1268 fax: | 480 | 926 - 3598

nato@ComplianceTesting.com

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System Verification **Test Report**

Prepared for: American Traffic Solutions

Model: RRS24F-ST3 (-40 to +70)

Serial Number: 590-113 / 61501

Description: Radar Beam Characteristics

To

Jenoptik Multi-Radar System Verification Procedure Base Frequency Test

Date of Issue: 6-16-21

On the behalf of the applicant:

American Traffic Solutions 1150 N Alma School Rd Mesa, AZ 85201

Prepared by Compliance Testing, LLC 1724 S. Nevada Way Mesa, Arizona 85204 (480) 926-3100 phone / (480) 926-3598 fax www.compliancetesting.com

Project No: p2160002

Todd Lasher

Project Test Engineer



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EMI, EMC, RF Testing Experts Since 1963

tol-free: (866) 311-3268 fax: (480) 926-3598

http://www.ComplaineTesting.com info∰ComplaineTesting.com

Test Results Summary Table

The frequency measurements performed by Compliance Testing, LLC and reported within this report demonstrate that the Jenoptik RRS24F-ST3 radar system has an accuracy of less than or equal to 0.62 mph in the range 6.21 mph to 62.14 mph and an accuracy of 0.62 mph to 1.86 mph in the range of 62.14 mph to 186.41 mph. This is equal to or better than +/- 1 mph accuracy up to 100 mph.

Test Frequency Set 1

Nominal Frequency (GHz)	Measured Frequency (GHz)	Amplitude (dBm)	Frequency Deviation (MHz)	Limit (MHz)	Results
$F_0 = 24.0800$	24.07885	8.2440	1.14 +/- 0.03	+/- 48.2	PASS
F ₁ = 24.0872	24.08605	8.6520	1.20 +/- 0.03	+/- 48.2	PASS
F ₂ = 24.0890	24.08790	10.015	1.09 +/- 0.03	+/- 48.2	PASS
F ₃ = 24.0900	24.08880	9.9690	1.20 +/- 0.03	+/- 48.2	PASS

Test Frequency Set 2

Nominal Frequency (GHz)	Measured Frequency (GHz)	Amplitude (dBm)	Frequency Deviation (MHz)	Limit (MHz)	Results
$F_0 = 24.1200$	24.11885	7.3210	1.15 +/- 0.03	+/- 48.2	PASS
F ₁ = 24.1272	24.12605	7.9630	1.20 +/- 0.03	+/- 48.2	PASS
F ₂ = 24.1290	24.12790	9.3250	1.10 +/- 0.03	+/- 48.2	PASS
F ₃ = 24.1300	24.12885	9.4440	1.14 +/- 0.03	+/- 48.2	PASS

Test Frequency Set 3

Nominal Frequency (GHz)	Measured Frequency (GHz)	Amplitude (dBm)	Frequency Deviation (MHz)	Limit (MHz)	Results
$F_0 = 24.1600$	24.15885	7.7590	1.14 +/- 0.03	+/- 48.2	PASS
F ₁ = 24.1672	24.16610	7.8900	1.14 +/- 0.03	+/- 48.2	PASS
F ₂ = 24.1690	24.16785	9.1260	1.14 +/- 0.03	+/- 48.2	PASS
F ₃ = 24.1700	24.16890	9.4300	1.10 +/- 0.03	+/- 48.2	PASS



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System Verification **Test Report**

Prepared for: American Traffic Solutions

Model: RRS24F-ST3 (-40 to +70)

Serial Number: 590-113 / 65874

Description: Radar Beam Characteristics

To

Jenoptik Multi-Radar System Verification Procedure Base Frequency Test

Date of Issue: 1/22/2021

On the behalf of the applicant:

American Traffic Solutions 1150 N Alma School Rd Mesa, AZ 85201

Prepared by Compliance Testing, LLC 1724 S. Nevada Way Mesa, Arizona 85204 (480) 926-3100 phone / (480) 926-3598 fax www.compliancetesting.com

Project No: p2110010

Todd Lasher

Project Test Engineer



Previously Flom Test Lab
EMI, EMC, RF Testing Experts Since 1963

toll-free: (856.) 311-3268 fax: (480.) 926-3598

http://www.ComphanteTesting.com anti-@ComphanteTesting.com

Test Results Summary Table

The frequency measurements performed by Compliance Testing, LLC and reported within this report demonstrate that the Jenoptik RRS24F-ST3 radar system has an accuracy of less than or equal to 0.62 mph in the range 6.21 mph to 62.14 mph and an accuracy of 0.62 mph to 1.86 mph in the range of 62.14 mph to 186.41 mph. This is equal to or better than +/- 1 mph accuracy up to 100 mph.

Test Frequency Set 1

Nominal Frequency (GHz)	Measured Frequency (GHz)	Amplitude (dBm)	Frequency Deviation (MHz)	Limit (MHz)	Results
$F_0 = 24.08$	24.07860	9.335	1.40 +/- 0.03	+/- 48.2	Pass
F ₁ = 24.08725	24.08580	9.920	1.45 +/- 0.03	+/- 48.2	Pass
F ₂ = 24.089	24.08765	11.110	1.35 +/- 0.03	+/- 48.2	Pass
F ₃ = 24.09	24.08860	11.340	1.40 +/- 0.03	+/- 48.2	Pass

Test Frequency Set 2

Nominal Frequency (GHz)	Measured Frequency (GHz)	Amplitude (dBm)	Frequency Deviation (MHz)	Limit (MHz)	Results
$F_0 = 24.12$	24.11850	8.858	1.50 +/- 0.03	+/- 48.2	Pass
F ₁ = 24.12725	24.12570	9.723	1.55 +/- 0.03	+/- 48.2	Pass
F ₂ = 24.129	24.12755	11.040	1.45 +/- 0.03	+/- 48.2	Pass
F ₃ = 24.13	24.12855	10.930	1.45 +/- 0.03	+/- 48.2	Pass

Test Frequency Set 3

Nominal Frequency (GHz)	Measured Frequency (GHz) 24.15905	Amplitude (dBm) 9.171	Frequency Deviation (MHz)	Limit (MHz)	Results Pass
$F_0 = 24.16$			0.95 +/- 0.03	+/- 48.2	
F ₁ = 24.16725	24.16635	9.497	0.90 +/- 0.03	+/- 48.2	Pass
F ₂ = 24.169	24.16805	10.920	0.95 +/- 0.03	+/- 48.2	Pass
F ₃ = 24.17	24.16910	11.240	0.90 +/- 0.03	+/- 48.2	Pass



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PREVENTIVE MAINTENANCE CHECKLIST

Date & Time: 10/28/2021 11:57:00

Site ID: KRKF001

Location: 132nd Ave NE @ Muir Elementary/Kamiakin Middle

Product: AutoPatrol

Technician Name: Charles Goodrich

See Associated Ticket:

Item	Status	Note/Action (If Status N/A, please specify)
Clean dirt, grime, and graffiti off enclosure and glass.		
1.1. Clean Graffiti.	Pass	
Check physical integrity. Check paint/housing for graffiti and (or) other vandalism.		
1.2. Clean Glass:	Pass	
Clean and inspect all glass and enclosures.		
1.3. Clean Enclosure (Interior):	Pass	
Clear vents/fans of obstruction. Remove dust and dirt by vacuum/wiping.		
1.4. Check Enclosure:	Pass	
If enclosure moved during cleaning, tighten base.		
Perform a general site inspection to include environmental and road conditions.	I I I I I I I I I I I I I I I I I I I	
2.1. PLP/Loop Loop:	N/A	
Check for exposed or cut loop wiring, and epoxy wear and tear.		
2.2. Power & Grounding:	Pass	
Inspect all power and grounding connections.		
2.3. Radar:	Pass	
Inspect radar and cables. Visually inspect antenna.		
2.4. WVDs:	N/A	
Check for popped out pucks, visible cracks, or other noticeable damage.		
3. Inspect poles, bases, and enclosures.		

3.1. Pole: Check sturdiness. Check hurricane collar and confirm screws are tight.	Pass
3.2. Base: Check for cracks. Ensure bolts (and latch bolt) are tight and secure inside base.	Pass
3.3. Enclosure: Confirm straps are tight and secure against pole. Tighten if loose.	Pass
Inspect cables and connections.	
4.1. Cables: Check all cables for visible wear or damage.	Pass
4.2. Connections: Check for exposed wires on pole connecting to radar, camera enclosure, and strobe.	Pass

5. Take (and attach) photo of enclosure, pole, and photo enforcement sign(s) for presence and damage.

5.1. Enclosure:



5.3. Photo Enforcement Sign(s):



5.2. Pole:





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PREVENTIVE MAINTENANCE CHECKLIST

Date & Time: 10/28/2021 11:45:00 Site ID: KRKF002 Location: 132nd Ave NE @ Muir Elementary/Kamiakin Middle

Product: AutoPatrol Technician Name: Charles Goodrich See Associated Ticket:

ltem .	Status	Note/Action (If Status N/A, please specify)
Clean dirt, grime, and graffiti off enclosure and glass.		
1.1. Clean Graffiti.	Pass	
Check physical integrity. Check paint/housing for graffiti and (or) other vandalism.		
1.2. Clean Glass:	Pass	
Clean and inspect all glass and enclosures.		
1.3. Clean Enclosure (Interior):	Pass	
Clear vents/fans of obstruction. Remove dust and dirt by vacuum/wiping.		
1.4. Check Enclosure:	Pass	
If enclosure moved during cleaning, tighten base.		
Perform a general site inspection to include environmental and road conditions.		
2.1. PLP/Loop Loop:	N/A	
Check for exposed or cut loop wiring, and epoxy wear and tear.		
2.2. Power & Grounding:	Pass	
Inspect all power and grounding connections.		
2.3. Radar:	Pass	
Inspect radar and cables. Visually inspect antenna.		
2.4. WVDs:	N/A	
Check for popped out pucks, visible cracks, or other noticeable damage.		
3. Inspect poles, bases, and enclosures,		

3.1. Pole: Check sturdiness. Check hurricane collar and confirm screws are tight.	Pass
3.2. Base: Check for cracks. Ensure bolts (and latch bolt) are tight and secure inside base.	Pass
3.3. Enclosure: Confirm straps are tight and secure against pole. Tighten if loose.	Pass
4. Inspect cables and connections.	
4.1. Cables: Check all cables for visible wear or damage.	Pass
4.2. Connections: Check for exposed wires on pole connecting to radar, camera enclosure, and strobe.	Pass

5. Take (and attach) photo of enclosure, pole, and photo enforcement sign(s) for presence and damage.

5.1. Enclosure:



SCHOOL SPEED LIMIT 20 WHEN PLASHING SI 5.2. Pole:



5.3. Photo Enforcement Sign(s):