

ONSITE DAILY SUMMARY LIST

ONSITE DATE: Friday, January 24, 2014

BLACK DIAMOND PD

CURRENT PO:

INVOICE

ID	MANUFACTURER	MODEL NUMBER	DESCRIPTION	DEPARTMENT
AA-8476	KUSTOM	HR-12	SPEED MEASURING DEVICE	
EG02886	KUSTOM	ECTIONALGOLDEN EAC	SPEED MEASURING DEVICE	N/A
FF18686	KUSTOM	FALCON	SPEED MEASURING DEVICE	MARINE UNIT
FF21128	KUSTOM	FALCON	SPEED MEASURING DEVICE	
FF6630	KUSTOM	FALCON	SPEED MEASURING DEVICE	
FH08200	KUSTOM	FALCON HR	SPEED MEASURING DEVICE	
PL27232	KUSTOM	PRO LASER III	SMD	
RP01593	KUSTOM	RP-1	SPEED MEASURING DEVICE	
RP05744	KUSTOM	RP-1	SPEED MEASURING DEVICE	
XE04281	KUSTOM	GOLDEN EAGLE II	SPEED MEASURING DEVICE	
XE04286	KUSTOM	GOLDEN EAGLE II	SPEED MEASURING DEVICE	
XE04292	KUSTOM	GOLDEN EAGLE II	SPEED MEASURING DEVICE	
XE04293	KUSTOM	GOLDEN EAGLE II	SPEED MEASURING DEVICE	
XE04298	KUSTOM	GOLDEN EAGLE II	SPEED MEASURING DEVICE	
XE04310	KUSTOM	GOLDEN EAGLE II	SPEED MEASURING DEVICE	

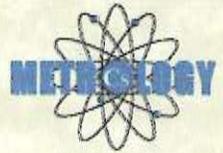
Number Processed: 15

Customer Signature: _____

Date: _____



Cascade Engineering Services, Inc.



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

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS1-00015679

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is "As Found" data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:		SPEED MEASURING DEVICE	
ASSET #:	RP05744	SERIAL NUMBER:	RP05744
MANUFACTURER:	KUSTOM	MODEL NUMBER:	RP-1
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	52909	35 M.P.H.	2552 Hz
TUNNING FORK TWO	48682	65 M.P.H.	4746 Hz

Antenna 1 SN: RK09229, Frequency: 24.121 GHz

Antenna 2 SN: RK12626, Frequency: 24.118 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Friday, January 24, 2014



Cascade Engineering Services, Inc.



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

ON-SITE CERTIFICATE #: OS1-00015678

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCCL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is "As Found" data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:	SPEED MEASURING DEVICE		
ASSET #:	RP01593	SERIAL NUMBER:	RP01593
MANUFACTURER:	KUSTOM	MODEL NUMBER:	RP-1
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	45296	35 M.P.H.	2550 Hz
TUNNING FORK TWO	43260	65 M.P.H.	4742 Hz

Antenna 1 SN: RK02146, Frequency: 24.117 GHz

Antenna 2 SN: RK02141, Frequency: 24.119 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Friday, January 24, 2014

THIS LABORATORY IS A2LA ACCREDITED TO ISO/IEC 17025:2005 (GENERAL REQUIREMENTS FOR THE COMPETENCE OF TESTING AND CALIBRATION LABORATORIES), CERTIFICATE #: 2560.01



Cascade Engineering Services, Inc.



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

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS1-00015677

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NC SL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is "As Found" data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:	SPEED MEASURING DEVICE	
ASSET #:	XE04310	SERIAL NUMBER: XE04310
MANUFACTURER:	KUSTOM	MODEL NUMBER: GOLDEN EAGLE II
DEPARTMENT:		PATROL CAR #:
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY: REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE: January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	42184	30 M.P.H.	3220 Hz
TUNNING FORK TWO	41353	55 M.P.H.	5914 Hz

Antenna 1 SN: DE10057, Frequency: 35.474 GHz

Antenna 2 SN: DE10089, Frequency: 35.479 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Friday, January 24, 2014



Cascade Engineering Services, Inc.

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

T.425.895.8617, F.425.702.9358



ON-SITE CERTIFICATE #: OS1-00015676

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is "As Found" data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:

SPEED MEASURING DEVICE

ASSET #:	EG02886	SERIAL NUMBER:	EG02886
MANUFACTURER:	KUSTOM	MODEL NUMBER:	DIRECTIONAL GOLDEN EAGLE
DEPARTMENT:	N/A	PATROL CAR #:	27
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	25025	30 M.P.H.	3220 Hz
TUNNING FORK TWO	28459	55 M.P.H.	5908 Hz

Antenna 1 SN: DE04789, Frequency: 35.484 GHz

Antenna 2 SN: DE04806, Frequency: 35.537 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Friday, January 24, 2014



Cascade Engineering Services, Inc.



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

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS1-00015675

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:	SPEED MEASURING DEVICE		
ASSET #:	FF21128	SERIAL NUMBER:	FF21128
MANUFACTURER:	KUSTOM	MODEL NUMBER:	FALCON
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	47298	65 M.P.H.	4746 Hz
TUNNING FORK TWO			

Antenna 1 SN: HANDHELD, Frequency: 24.176 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Friday, January 24, 2014

THIS LABORATORY IS A2LA ACCREDITED TO ISO/IEC 17025:2005 (GENERAL REQUIREMENTS FOR THE COMPETENCE OF TESTING AND CALIBRATION LABORATORIES), CERTIFICATE # 2560.01



Cascade Engineering Services, Inc.



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

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS1-00015674

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is "As Found" data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:

SMD

ASSET #: PL27232
MANUFACTURER: KUSTOM
DEPARTMENT:
ENVIRONMENT: 72.0 °F/46.0 %RH
CAL INTERVAL: 12 MONTHS

SERIAL NUMBER: PL27232
MODEL NUMBER: PRO LASER III
PATROL CAR #:
BASIC ACCURACY: REFERENCE MFR SPECIFICATIONS
DUE DATE: January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

LASER SYSTEM OUTPUTS

PULSE REFERENCE FREQUENCY 199.9972 Hz

OPTICAL POWER OUTPUT: 177.3 μW

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1259	NOVA-DISPLAY	OPHIR	LASER POWER METER	01/13/2015
MET1260	PD300-SH	OPHIR	LASER POWER HEAD	01/09/2015
MET1335	7024707	LASER TECHNOLOGY	LASER SPEED MEASUREMENT SIMULATOR	08/30/2014
MET1336	7005320	LASER TECHNOLOGY	OPTICAL INTERFACE UNIT	

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Friday, January 24, 2014

THIS LABORATORY IS A2LA ACCREDITED TO ISO/IEC 17025:2005 (GENERAL REQUIREMENTS FOR THE COMPETENCE OF TESTING AND CALIBRATION LABORATORIES), CERTIFICATE #: 2560.01



Cascade Engineering Services, Inc.

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

T.425.895.8617, F.425.702.9358



ON-SITE CERTIFICATE #: OS1-00015668

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:

SPEED MEASURING DEVICE

ASSET #:	XE04286	SERIAL NUMBER:	XE04286
MANUFACTURER:	KUSTOM	MODEL NUMBER:	GOLDEN EAGLE II
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	28809	30 M.P.H.	3216 Hz
TUNNING FORK TWO	30355	55 M.P.H.	5902 Hz

Antenna 1 SN: DE10095, Frequency: 35.474 GHz

Antenna 2 SN: DE10085, Frequency: 35.494 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
CALIBRATION TECHNICIAN: CHARLIE BROWN

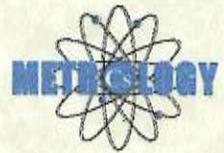
LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Friday, January 24, 2014



Cascade Engineering Services, Inc.

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

T.425.895.8617, F.425.702.9358



ON-SITE CERTIFICATE #: OS1-00015665

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:

SPEED MEASURING DEVICE

ASSET #:	XE04298	SERIAL NUMBER:	XE04298
MANUFACTURER:	KUSTOM	MODEL NUMBER:	GOLDEN EAGLE II
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	22470	30 M.P.H.	3214 Hz
TUNNING FORK TWO	24033	55 M.P.H.	5902 Hz

Antenna 1 SN: DE10019, Frequency: 35.598 GHz

Antenna 2 SN: DE10074, Frequency: 35.474 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Friday, January 24, 2014



Cascade Engineering Services, Inc.

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

T.425.895.8617, F.425.702.9356



ON-SITE CERTIFICATE #: OS1-00015666

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCCL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is "As Found" data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:

SPEED MEASURING DEVICE

ASSET #:	XE04293	SERIAL NUMBER:	XE04293
MANUFACTURER:	KUSTOM	MODEL NUMBER:	GOLDEN EAGLE II
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	28801	30 M.P.H.	3212 Hz
TUNNING FORK TWO	30337	55 M.P.H.	5900 Hz

Antenna 1 SN: DE10086, Frequency: 35.499 GHz

Antenna 2 SN: DE10080, Frequency: 35.494 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Friday, January 24, 2014



Cascade Engineering Services, Inc.

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



ON-SITE CERTIFICATE #: OS1-00015667

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCCL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is "As Found" data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:	SPEED MEASURING DEVICE		
ASSET #:	XE04292	SERIAL NUMBER:	XE04292
MANUFACTURER:	KUSTOM	MODEL NUMBER:	GOLDEN EAGLE II
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	28763	30 M.P.H.	3210 Hz
TUNNING FORK TWO	30483	55 M.P.H.	5912 Hz

Antenna 1 SN: DE10097, Frequency: 35.48 GHz

Antenna 2 SN: DE10098, Frequency: 35.513 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Friday, January 24, 2014

THIS LABORATORY IS A2LA ACCREDITED TO ISO/IEC 17025:2005 (GENERAL REQUIREMENTS FOR THE COMPETENCE OF TESTING AND CALIBRATION LABORATORIES), CERTIFICATE #: 2560.01



Cascade Engineering Services, Inc.

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



ON-SITE CERTIFICATE #: OS1-00015669

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCCL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is "As Found" data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:	SPEED MEASURING DEVICE	
ASSET #:	AA-8476	SERIAL NUMBER: AA-8476
MANUFACTURER:	KUSTOM	MODEL NUMBER: HR-12
DEPARTMENT:		PATROL CAR #:
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY: REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE: January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	966933	35 M.P.H.	2528 Hz
TUNNING FORK TWO	966968	65 M.P.H.	4692 Hz

Antenna 1 SN: HANDHELD, Frequency: 24.166 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Friday, January 24, 2014

THIS LABORATORY IS A2LA ACCREDITED TO ISO/IEC 17025:2005 (GENERAL REQUIREMENTS FOR THE COMPETENCE OF TESTING AND CALIBRATION LABORATORIES), CERTIFICATE #: 2560.01



Cascade Engineering Services, Inc.



12026 115th Ave NE, Suite 102, Kirkland, WA 98034
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ON-SITE CERTIFICATE #: OS1-00015670

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:		SPEED MEASURING DEVICE	
ASSET #:	FF6630	SERIAL NUMBER:	FF6630
MANUFACTURER:	KUSTOM	MODEL NUMBER:	FALCON
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	16540	50 M.P.H.	3660 Hz
TUNNING FORK TWO			

Antenna 1 SN: HANDHELD, Frequency: 24.162 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
CALIBRATION TECHNICIAN: CHARLIE BROWN

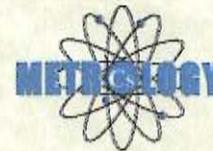
LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Friday, January 24, 2014



Cascade Engineering Services, Inc.

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

T.425.895.8617, F.425.702.9358



ON-SITE CERTIFICATE #: OS1-00015671

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCCL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is "As Found" data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:		SPEED MEASURING DEVICE	
ASSET #:	FH08200	SERIAL NUMBER:	FH08200
MANUFACTURER:	KUSTOM	MODEL NUMBER:	FALCON HR
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	59428	35 M.P.H.	2546 Hz
TUNNING FORK TWO	59443	65 M.P.H.	4746 Hz

Antenna 1 SN: HANDHELD, Frequency: 24.119 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Friday, January 24, 2014



Cascade Engineering Services, Inc.

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



ON-SITE CERTIFICATE #: OS1-00015672

CERTIFICATE OF CALIBRATION STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT
25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:	SPEED MEASURING DEVICE		
ASSET #:	FF18686	SERIAL NUMBER:	FF18686
MANUFACTURER:	KUSTOM	MODEL NUMBER:	FALCON
DEPARTMENT:	MARINE UNIT	PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	16451	50 M.P.H.	3650 Hz
TUNNING FORK TWO			

Antenna 1 SN: HANDHELD, Frequency: 24.165 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

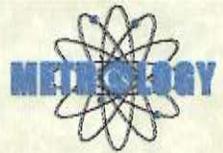
PERFORMED BY Charlie M. Brown
CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Friday, January 24, 2014



Cascade Engineering Services, Inc.

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



ON-SITE CERTIFICATE #: OS1-00015673

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:	SPEED MEASURING DEVICE		
ASSET #:	XE04281	SERIAL NUMBER:	XE04281
MANUFACTURER:	KUSTOM	MODEL NUMBER:	GOLDEN EAGLE II
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	72.0 °F/46.0 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 24, 2015

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	38175	30 M.P.H.	3220 Hz
TUNNING FORK TWO	44197	55 M.P.H.	5914 Hz

Antenna 1 SN: DE10046, Frequency: 35.485 GHz

Antenna 2 SN: DE10081, Frequency: 35.53 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1231	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2015
MET1232	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2015

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Friday, January 24, 2014