

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



WPR21FA266

AIRWORTHINESS

Group Chair's Factual Report - Attachment 3

Inspector Information

June 21, 2022

29 pages

Level II Certification

Awarded to



The recipient has successfully completed qualification examination in accordance with NAS 410 Rev. 4 and CTIS-CERT and is hereby certified as a Level II in the discipline of:

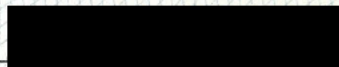
Eddy Current Inspection

Presented by

Crosspoint Testing and Inspection Services, LLC

Certification Start Date: January 5th, 2018

Certification End Date: January 5th, 2023



Brent Couch: Manager – Crosspoint Testing



Witness: Clifford Murphey, Level III Examiner

Level 2 Certification

Awarded to

The recipient has successfully completed qualification examination in accordance with
NAS410 and is hereby certified as a Level 2 in the discipline of:

Penetrant (Type I & II) Inspection

Presented by

Crosspoint Testing and Inspection Services, LLC

Certification Start Date: March 19th, 2018

Certification End Date: March 19th, 2023


Brent Couch: Manager - Crosspoint Testing


Witness: George Hopman, Level 3 Examiner

FLIGHTSAFETY TEXTRON AVIATION

• TRAINING •

Certifies that

[REDACTED]

has satisfactorily completed a course of

Beechcraft Structural Inspection and Repair Manual (SIRM)

Conferred on 21st day of August, 2019



*Safety begins with a well-trained
maintenance technician.*

**FlightSafety
Textron Aviation**

TRAINING

[REDACTED]

Brian K. McNelly - Center Manager
Wichita Maintenance

RECORD OF TRAINING

[REDACTED]
CrossPoint Testing and Inspection Services LLC
during the period August 20, 2019 through August 21, 2019 has completed
FlightSafety's Beechcraft Structural Inspection and Repair Manual (SIRM) Course

Ground Training Curriculum

ATA 20 Standard Practices	7.50
ATA 54 Nacelles/Pylons	.50
ATA 57 Wings	3.50
Welcome/Introduction	1.00
Review/Exam	.50

Ground Training Total Hours: 13.00

Exam Scores: Exam 1[100%]

Remarks

8 hours counts toward IA Refresher Training.

Accredited for IA refresher training under Title 14 CFR part 65, section 65.93(a)(4).

[REDACTED]
Brian K. McNelly - Center Manager

Wichita Maintenance



27Aug19
Date

I UNITED STATES OF AMERICA XI
DEPARTMENT OF TRANSPORTATION • FEDERAL AVIATION ADMINISTRATION
IV NAME [REDACTED]
V ADDRESS [REDACTED]
VI NATIONALITY USA SEX HEIGHT WEIGHT HAIR EYES
IVa D.O.B. [REDACTED]
IX HAS BEEN FOUND TO BE PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF
II REPAIRMAN
III CERTIFICATE NUMBER [REDACTED]
X DATE OF ISSUE 21 MAR 2016
XIV [REDACTED]
VIII ACTING ADMINISTRATOR



[REDACTED]
REPAIRMAN XII RATINGS [REDACTED]
XIII LIMITATIONS
CERTIFICATE PRIVILEGES OF 14 CFR SECTION 65.103 VALID FOR NDT
INSPECTION PERFORMING LIQUID PENETRANT (PT), MAGNETIC PARTICLE
(MT), EDDY CURRENT (ET), ULTRASONIC (UT) WHILE EMPLOYED BY
CROSSPOINT TESTING & INSPECTION SERVICES LLC., CHANDLER, AZ.
CERTIFICATE NUMBER: 5P7R462D.
VII SIGNATURE
OF HOLDER [REDACTED]
200905 12/18

Applicants Last Name: [REDACTED]

First Name: [REDACTED]

Date of Eye Exam: 23/DEC/2020

Driver's License # and State: [REDACTED]

NEAR-VISIAN ACUITY: The examination should ensure natural or corrected (with or without corrected lenses) near-distance acuity in at least one eye such that the applicant, to prove near vision acuity on Jaeger J1 @ 12 inches or greater (≥ 30.5 cm). (Ability to perceive an Ortho-Rater minimum of 8 or similar test pattern is also acceptable).

THE FOLLOWING THREE SECTIONS ARE TO BE COMPLETED BY THE OPTOMETRIST

1. Please verify the applicant close vision acuity is to Jaeger J1 specifications @ a distance of 12 inches or greater (≥ 30.5 cm): (please check one of the following)

Both eyes require corrected vision to meet Jaeger 1 requirements	YES
Only one eye requires corrected vision to meet Jaeger 1 requirements L OR R	
No correction is required and Both eyes meet Jaeger 1 requirements	

2. Through a color perception examination, is the applicant colorblind? (Please check one of the following)

No, the applicant is not colorblind	✓
Yes, the applicant is colorblind	

3. Please print Legible and clearly

Customer name:

Date of examination: 12-23-2020

Examiner name: MICHAEL CLARK, OD

Telephone number: 480-373-8887

Examiner address: [REDACTED]

City: MESA

State: AZ

Zip code: 85209 Country: USA

EXAMINER'S PROFESSIONAL STATUS (Please check only one):

☐ Ophthalmologist
 ☒ Optometrist
 ☐ Medical Doctor
 ☐ Registered Nurse
 ☐ Certified Physician's Assistance

Examiners Signature: [REDACTED]

License number and State issued: [REDACTED]

CrossPoint Testing
and Inspection Services, LLC.

[illegible]

CrossPoint Testing
and Inspection Services, LLC.

[illegible]

CrossPoint Testing
and Inspection Services, LLC.

[illegible]

CrossPoint Testing
and Inspection Services, LLC.

EDDY CURRENT

CTIS FORM #: 009
REVISION #: Original
REVISION DATE: 23/AUG/2018

CrossPoint Testing
and Inspection Services, LLC.

fluorescent
liquid
penetrant

CTIS FORM #: 009
REVISION #: Original
REVISION DATE: 23/AUG/2018

CrossPoint Testing
and Inspection Services, LLC.

Eddy CURRENT

CTIS FORM #: 009
REVISION #: Original
REVISION DATE: 23/AUG/2018

CrossPoint Testing
and Inspection Services, LLC.

[illegible]

CrossPoint Testing
and Inspection Services, LLC.

METHOD:

Employee Name:

MONTH: MAR

YEAR: 2021 Total Hours

40.5

CrossPoint Testing
and Inspection Services, LLC.

[illegible]

CrossPoint Testing
and Inspection Services, LLC.

METHOD: Eddy current

CTIS FORM #: 009
REVISION #: Original
REVISION DATE: 23/AUG/2018

CrossPoint Testing
and Inspection Services, LLC.

[illegible]

CrossPoint Testing
and Inspection Services, LLC.

[illegible]

CrossPoint Testing
and Inspection Services, LLC.

[illegible]

CrossPoint Testing
and Inspection Services, LLC.

[illegible]

CrossPoint Testing
and Inspection Services, LLC.

[illegible]

MONTH: JUL YEAR: 2021 Total Hours

CERTIFICATE OF CALIBRATION

Customer: Crosspoint Testing & Inspection
Certificate Number: 6003692610422

Unit Model	Nortec 600S
Description	Eddy Current Flaw Detector
Unit Serial Number	60001184037
Customer Reference Number	228857-01
Sales Order Number	228857-01
Received Date (MM/DD/YYYY)	01/04/2021
Date of Calibration (MM/DD/YYYY)	01/04/2021
Results	PASS

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Name: L. Jimenez
Function: NDT Technician

Remarks or Special Requirements:

Signature:

Test Conditions

Temperature (C / F) 21 / 70
Humidity (%) 45

As Received/Shipped Status

Before Calibration: In: ☒ Out: ☐ N/A: ☐
After Calibration: In: ☒ Out: ☐ N/A: ☐

Location of Calibration:
110 Magellan Cir
Webster, TX
77598 USA

Customer Address:
7931 East Pecos Rd.
203
Mesa, AZ 85212

Calibration Procedure(s):
TSTG-10017 Rev.4

Test Standard(s):
Factory Calibration

Calibrated Test Equipment:

Model	Serial #:	Ref #:	Last Cal Date:	Next Cal Date:
Agilent 33250A	MY40019874	Hou-31	11/23/2020	11/23/2021
Keithley 2302	1309194	Hou-54	11/20/2020	11/20/2021
Tektronix TDS3032	C011033	Hou-33	11/21/2020	11/19/2021
JFW 50P 1714 SMA	468120396	Hou-7	01/11/2020	01/11/2021

This certifies that the above product was calibrated in compliance with the applicable portions of ISO 15548-1:2013 Non-destructive testing - Equipment for eddy current examination under a quality system registered to ISO9001 using applicable Olympus OSSA procedures.

All test equipment used in the certification of this instrument are traceable to NIST (National Institute of Standards and Technology) or other applicable and recognized national standard(s).

Based on manufacturer recommended or user requested calibration interval, the next calibration is due **01/04/2022**

www.olympus-ims.com

This Certificate shall not be reproduced, except in full, without written approval of Olympus OSSA

SWPR-10037-0005 Rev.4

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CERTIFICATE OF CALIBRATION

Company: Crosspoint Testing and Inspection Services Report No. S06817
Sales Order: 228857-02
PO: 228857-02

This calibration was performed in accordance with the applicable portions of ISO 10012-1:1992(E) Quality Assurance Requirements for Measuring Equipment, ANSI Z540-3-2007 Calibration Laboratories and Measuring and Test Equipment - General Requirements, and technical requirements of the customer's order. Measuring standards and test equipment used are traceable to the National Institute of Standards and Technology. Unless otherwise indicated, the test accuracy ratio for each calibrated parameter is at least 4:1.

Model: Mini-Mite Scanner
Serial No: MM15391CC033533
Date Calibrated: 1/4/2021 Recalibration Date: 1/4/2022
Procedure: CTP 173

Tests were conducted at an ambient temperature of 72 degrees F and a Relative Humidity of 43 %.

Remarks: N/A

TOLERANCE	IN	OUT	N/A
As Found:	☒	☐	☐
As Left:	☒	☐	☐

--- TRACEABLE STANDARDS ---

Unit ID	MFR	Part Number	Serial Number	Calibration Due
147	TEK	TDS2012C	C050441	3/12/2021
151	Fluke	87V	89470760	3/12/2021
149	TEK	AFG3101	C020897	3/12/2021

Certified by: 
H Rodriguez, Houston Service Center T

OLYMPUS

Your Vision, Our Future

Olympus America, Inc.

110 Magellan Circle Webster, TX 77598, Phone: (281) 922-9300, Fax: (281) 922-9303



Certificate of Conformance

COPY

Customer Name	Crosspoint Testing and Inspection Service	Dated	6/16/2020
Customer PO #	--	Quantity	1
Part Number	NRK-3AL	Serial Number	7653
Description	Custom Navy Block	Equivalent	-

We certify that these parts shipped to you of domestic manufacture and conform to all requirements of the Purchase Order. The parts have been manufactured in accordance with all required specifications, instructions, and drawings.

Date 6/16/2020

Signed Inspected by
Sophea Puth



8629 South 212th Street
Kent, WA 98031
(253)395-8706
www.aerofabndt.com

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EDDY CURRENT REFERENCE STANDARD QUALITY CHECKLIST

CUSTOMER: CROSSPOINT TESTING AND INSPECTION SERVICE **P.O.#:** ---
MATERIAL: ALUMINUM 7075-T6/T7 **S/N:** 7653
LOT# / HT#: 228783B7/110609B5/303620B9 **SPEC:** NRK-3AL NAVY
DATE: 6/16/2020 **DIMENSIONED BY:** M. SLAGLE

	REQUIRED	ACTUAL	PASS	FAIL
<u>Top Plate 05</u>	<u>Tolerance .005"</u>			
Thickness	0.500	<u>0.5006</u>	<u>X</u>	_____
Width	4.000	<u>4.0011</u>	<u>X</u>	_____
Length	7.000	<u>7.0013</u>	<u>X</u>	_____
<u>Middle Plate 03</u>				
Thickness	0.125	<u>0.1262</u>	<u>X</u>	_____
Width	4.000	<u>4.0011</u>	<u>X</u>	_____
Length	7.000	<u>7.0013</u>	<u>X</u>	_____
<u>Bottom Plate 01</u>				
Thickness	0.250	<u>0.2500</u>	<u>X</u>	_____
Width	4.000	<u>4.0011</u>	<u>X</u>	_____
Length	7.000	<u>7.0013</u>	<u>X</u>	_____
<u>Stack Dimension</u>				
Thickness	0.875	<u>0.8768</u>	<u>X</u>	_____
PIN DOWEL POSITION	2 Places	**	<u>X</u>	_____
SCREW POSITION	2 Places	**	<u>X</u>	_____
ETCHED NUMBERS	All Holes	OK	<u>X</u>	_____

DIMENSIONAL ACCURACY: A. WITHIN +/- .00025" IN .050" B. WITHIN +/- .00050" IN .100" C. WITHIN +/- .0010" IN 1.000"
ALL DIMENSIONS ARE MEASURED WITH DIMENSIONAL EQUIPMENT WHICH IS CALIBRATED AND CERTIFIED UTILIZING
MEASUREMENT STANDARDS WHO'S CALIBRATION IS TRACEABLE TO NIST. ALL CALIBRATION DEFECTS WERE
MANUFACTURED AND/OR CERTIFIED IN ACCORDANCE WITH WESTPRO'S PROCEDURE (WQC MANUAL SECTION 4).
NUCLEAR REGULATORY COMMISSION (NRC) RULES AND REGULATIONS (10 CFR PART 21) MAY APPLY TO THIS ORDER.

NOTE: ALL DIMENSIONS ARE IN INCHES



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EDDY CURRENT REFERENCE STANDARD QUALITY CHECKLIST

S/N: 7653

DRILLING LEGEND

Hole SYMBOL	Hole Diameter				Hole Position							
	Required	Actual	P	F	X - >	Actual	P	F	Y - >	Actual	P	F
A1	0.312	0.3122	X		0.437	0.4377	X		3.250	3.2497	X	
A2	0.281	0.2809	X		0.983	0.9834	X		3.250	3.2494	X	
A3	0.250	0.2497	X		1.498	1.4986	X		3.250	3.2499	X	
A4	0.218	0.2179	X		1.982	1.9834	X		3.250	3.2496	X	
A5	0.187	0.1872	X		2.435	2.4362	X		3.250	3.2494	X	
A6	0.156	0.1561	X		2.856	2.8565	X		3.250	3.2500	X	
B1	*		X		0.250	0.2519	X		2.625	2.6257	X	
B2	*		X		6.094	6.0941	X		1.375	1.3769	X	
C1	N/A		X		0.250	0.2505	X		1.375	1.3745	X	
C2	N/A		X		6.094	6.0949	X		2.625	2.6247	X	
D1	0.343	0.3424	X		0.500	0.5005	X		2.000	1.9999	X	
D2	0.375	0.3742	X		1.125	1.1260	X		2.000	2.0000	X	
D3	0.406	0.4055	X		1.781	1.7814	X		2.000	1.9998	X	
D4	0.437	0.4365	X		2.468	2.4685	X		2.000	1.9998	X	
D5	0.468	0.4676	X		3.186	3.1864	X		2.000	1.9998	X	
D6	0.500	0.4997	X		3.936	3.9363	X		2.000	1.9998	X	
D7	0.531	0.5314	X		4.717	4.7172	X		2.000	1.9998	X	
D8	0.562	0.5618	X		5.529	5.5291	X		2.000	1.9998	X	
E1	0.750	0.7499	X		0.687	0.6877	X		0.750	0.7498	X	
E2	0.718	0.7182	X		1.718	1.7183	X		0.750	0.7497	X	
E3	0.687	0.6871	X		2.718	2.7187	X		0.750	0.7498	X	
E4	0.656	0.6563	X		3.686	3.6860	X		0.750	0.7497	X	
E5	0.625	0.6252	X		4.623	4.6230	X		0.750	0.7497	X	
E6	0.593	0.5931	X		5.529	5.5290	X		0.750	0.7498	X	

Note: All dimensions are in inches.



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EDDY CURRENT REFERENCE STANDARD QUALITY CHECKLIST

S/N: 7653

ELOX SLOTS

ELOX SLOT #5 0.030L x 0.030D x 0.004W (+ or -) 0.001

TOP

BOTTOM

	LENGTH	DEPTH	WIDTH	P	F	LENGTH	DEPTH	WIDTH	P	F
A1	0.0302	0.0286	0.0040	X		0.0304	0.0293	0.0041	X	
A2	0.0296	0.0287	0.0041	X		0.0295	0.0293	0.0040	X	
A3	0.0308	0.0295	0.0041	X		0.0306	0.0296	0.0043	X	
A4	0.0304	0.0287	0.0042	X		0.0311	0.0299	0.0041	X	
A5	0.0298	0.0289	0.0041	X		0.0301	0.0290	0.0042	X	
A6	0.0308	0.0293	0.0042	X		0.0302	0.0289	0.0043	X	
D1	0.0310	0.0285	0.0040	X		0.0303	0.0287	0.0042	X	
D2	0.0305	0.0300	0.0041	X		0.0303	0.0293	0.0042	X	
D3	0.0308	0.0285	0.0042	X		0.0304	0.0291	0.0040	X	
D4	0.0305	0.0297	0.0041	X		0.0305	0.0287	0.0042	X	
D5	0.0306	0.0293	0.0042	X		0.0303	0.0288	0.0043	X	
D6	0.0311	0.0296	0.0042	X		0.0308	0.0288	0.0043	X	
D7	0.0309	0.0286	0.0042	X		0.0306	0.0293	0.0040	X	
D8	0.0305	0.0288	0.0042	X		0.0300	0.0290	0.0042	X	
E1	0.0307	0.0289	0.0041	X		0.0304	0.0294	0.0042	X	
E2	0.0304	0.0288	0.0041	X		0.0299	0.0295	0.0041	X	
E3	0.0304	0.0289	0.0042	X		0.0305	0.0287	0.0041	X	
E4	0.0306	0.0284	0.0040	X		0.0306	0.0286	0.0043	X	
E5	0.0311	0.0286	0.0041	X		0.0298	0.0292	0.0042	X	
E6	0.0308	0.0282	0.0041	X		0.0305	0.0293	0.0041	X	

Note: All dimensions are in inches.



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EDDY CURRENT REFERENCE STANDARD QUALITY CHECKLIST

S/N: 7653

EDM SLOTS

EDM SLOT #6 0.020D x 0.250L x 0.004W (+ or -) 0.001

ACTUAL

	DEPTH	LENGTH	WIDTH	P	F
A1	0.0212	N/A	0.0042	X	
A2	0.0207	N/A	0.0042	X	
A3	0.0210	N/A	0.0042	X	
A4	0.0209	N/A	0.0041	X	
A5	0.0209	N/A	0.0043	X	
A6	0.0210	N/A	0.0041	X	
D1	0.0208	N/A	0.0043	X	
D2	0.0210	N/A	0.0044	X	
D3	0.0208	N/A	0.0043	X	
D4	0.0208	N/A	0.0043	X	
D5	0.0209	N/A	0.0041	X	
D6	0.0210	N/A	0.0043	X	
D7	0.0210	N/A	0.0042	X	
D8	0.0204	N/A	0.0040	X	
E1	0.0214	N/A	0.0041	X	
E2	0.0205	N/A	0.0042	X	
E3	0.0203	N/A	0.0043	X	
E4	0.0206	N/A	0.0043	X	
E5	0.0208	N/A	0.0044	X	
E6	0.0209	N/A	0.0043	X	

Note: All dimensions are in inches.



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EDDY CURRENT REFERENCE STANDARD QUALITY CHECKLIST

S/N: 7653

	REQUIRED			ACTUAL				
	DEPTH	LENGTH	WIDTH	DEPTH	LENGTH	WIDTH	P	F
ELOX SLOT #7	0.050	0.750	0.004 (+/- .001)	0.0494	0.7511	0.0043	X	
ELOX SLOT #8	0.020	0.750	0.004 (+/- .001)	0.0201	0.7512	0.0041	X	
ELOX SLOT #9	0.010	0.750	0.004 (+/- .001)	0.0108	0.7502	0.0041	X	
ELOX SLOT #10	0.005	0.750	0.004 (+/- .001)	0.0033	0.7507	0.0039	X	
ELOX SLOT #13	0.050	0.100	0.004 (+/- .001)	0.0516	0.0987	0.0042	X	
	0.020	0.100	0.004 (+/- .001)	0.0210	0.0984	0.0039	X	
	0.010	0.100	0.004 (+/- .001)	0.0112	0.0977	0.0037	X	
	0.005	0.100	0.004 (+/- .001)	0.0063	0.0978	0.0037	X	
ELOX SLOT #14	DEPTH TAPERED			0.0523	1.0009	0.0045	X	
	.050 To .000	1.000	0.004 (+/- .001)	TO			X	
				0.0011				
ELOX SLOT #15	0.050	N/A	0.004 (+/- .001)	0.0501	N/A	0.0040	X	
	PERPENDICULAR TO RADIUS							
ELOX SLOT #17	0.010	0.030	0.004 (+/- .001)	0.0097	0.0314	0.0039	X	

FABRICATED BY:

M.SLAGLE

APPROVED BY:

QC Manager