

Florida Department of Law Enforcement

Gerald M. Bailey Commissioner

Alcohol Testing Program

P.O. Box 1489 Tallahassee, Florida 32302

(850) 617-1290 (850) 921-3787 Fax www.fdle.state.fl.us/atp

Rick Scott, Governor Pam Bondi, Attorney General Jeff Atwater, Chief Financial Officer Adam Putnam, Commissioner of Agriculture

MEMORANDUM

TO:

Department Inspectors

FROM:

Laura D. Barfield, Alcohol Testing Program Manager

DATE:

November 17, 2012

SUBJECT:

CMI Inc. Intoxilyzer 8000 Instrumentation Evaluation Report – January 2006

Amended November 2012

Attached you will find the CMI, Inc. Intoxilyzer 8000 Instrumentation Evaluation Report dated January 11, 2006, and AMENDED on November 17, 2012. The report was originally generated using data obtained during the evaluation conducted on January 4, 2006, in accordance with applicable rules and forms in effect at that time. The Purpose, Instrumentation Used and Conclusion sections of the report are being amended November 17, 2012, to document features/updates to the instrument that were also evaluated.

Based on the Program's review of this evaluation:

- The CMI, Inc. Intoxilyzer 8000 remains approved for use as an evidentiary breath test instrument in the State of Florida;
- (2) Effective January 4, 2006, software version 8100.26 has been evaluated in accordance with Instrument Evaluation Procedures FDLE/ATP Form 34 Revised March 2004, and meets the requirements of Rule 11D-8.003(2), Florida Administrative Code; and
- The addition of the four (4) rubber feet to the bottom of the instrument did not affect the accuracy and reliability of alcohol test results obtained using the CMI, Inc. Intoxilyzer 8000.

If you have any questions, please feel free to contact me.

LDB

Attachments

Florida Department of Law Enforcement Alcohol Testing Program

CMI, Inc. Intoxilyzer 8000 Instrumentation Evaluation Report

Report Prepared January 11, 2006 AMENDED November 17, 2012

> January 4, 2006 Orlando, Florida

CMI, Inc. Intoxilyzer 8000 Instrumentation Evaluation Report

Conducted in Accordance with Chapter 11D-8, FAC December 2004 and corresponding FDLE/ATP Form 34 Instrument Evaluation Procedures

Introduction

In order to be considered valid under Florida law, the analysis of a person's breath must have been administered substantially in accordance with methods and procedures approved by the Florida Department of Law Enforcement (FDLE), using instrumentation approved by FDLE. The FDLE Alcohol Testing Program has been granted specific and exclusive statutory authority to ensure the accuracy and reliability of breath alcohol test results and to approve breath test instrumentation and methods of breath analysis. The process for evaluation of breath test instrumentation for evidentiary use in Florida is prescribed by Chapter 11D-8, Florida Administrative Code.

Purpose

The CMI, Inc. Intoxilyzer 8000 was approved for evidentiary use by the Florida Department of Law Enforcement Alcohol Testing Program on November 5, 2002. The purpose of this evaluation is to assess the capabilities of the CMI, Inc. Intoxilyzer 8000, using infrared light absorption as the method of analysis and the following software and features/updates:

- Software version 8100.26 for evidentiary use in Florida; and
- The addition of four (4) rubber feet to the bottom of the CMI, Inc. Intoxilyzer 8000 to raise the calibration inlet port of the instrument to the same height as the simulator connections.

The evaluation process ensures that the methodology utilized by the breath test instrumentation provides accurate and scientifically reliable analytical results. Evaluations are not intended to approve individual parts or components of the breath test instrumentation.

Testing Location and Operating Conditions

Testing Location:

Florida Department of Law Enforcement

Orlando Regional Operations Center 500 West Robinson Street

Orlando, FL 32801

Operating Conditions:

Indoors, 710 F

FDLE Personnel Present During the Evaluation

Laura D. Barfield, Program Manager Matthew E. Malhiot, Department Inspector Dwite N. Hackney, Department Inspector

George L. Venturi, Department Inspector Roger G. Skipper, Department Inspector Donald P. Suereth, Department Inspector

Instrumentation Used

The following Intoxilyzer 8000 breath test instruments were provided on loan by the manufacturer, CMI, Inc.

- CMI, Inc. Intoxilyzer 8000, Serial Number 80-001173
 Exhaust block assembly hole in check valve; four (4) rubber feet
- CMI, Inc. Intoxilyzer 8000, Serial Number 80-001175
 Exhaust block assembly hole in check valve; four (4) rubber feet

Instrumentation Description

- <u>Make and Model Designation</u>: CMI, Inc. Intoxilyzer 8000, listed on the US Department of Transportation Conforming Products List of Evidential Breath Measurement Devices.
- Method of Analysis: Non-dispersive infrared light absorption.
- Software Version: 8100.26
- <u>Description of Instrumentation</u>: An infrared-based instrument designed for both mobile and stationary evidential breath alcohol testing.
- Specification for Precision: Average Standard deviation of 0.003 g/210L or better.
- Response Prescribed to Denote an Interferent: Display INTERFERENT DETECT and a high/low tone will sound.
- Response Prescribed to Denote Mouth Alcohol: Display SLOPE NOT MET and a high/low tone will sound.

Equipment and Supplies

Reference Sample Devices (Simulators)

All simulators were operated within 34 ± 0.2 C and had air leak resistant seals. The make, model and serial number of each simulator is outlined in Appendix A.

Digital Thermometer

The make, model and serial number of the digital thermometer is outlined in Appendix A.

External Printers

The make, model and serial number of each external printer is outlined in Appendix A.

Standards, Solutions, and Deionized Water

All alcohol reference solutions were analyzed by the Florida Department of Law Enforcement in accordance with Rule 11D-8.0035(2)(a), FAC. The dry gas standard was prepared and certified by Scott Specialty Gases, Inc. The results of the alcohol reference solution analyses and the certified concentration of the dry gas standard are outlined in Appendix B. Acetone Stock Solution, Lot Number 2005-D, and Mouth Alcohol Solution, Lot Number 2005-B, prepared and analyzed by the Florida Department of Law Enforcement were used for the acetone interference tests and the mouth alcohol tests, respectively. Deionized water obtained from the FDLE Tallahassee Regional Operations Center Laboratory was analyzed by gas chromatography prior to the evaluation.

Other Supplies

All other supplies and equipment used were commercially available and compatible with this type of instrumentation (printer tape, mouthpieces, tubing, office supplies, etc.).

Procedures

0.00 g/210L Test, Acetone Interference Test and Mouth Alcohol Test

The Intoxilyzer 8000 instrumentation was subjected to twenty-five (25) repetitions of a 0.00 g/210L test, twenty-five (25) repetitions of an acetone interference test, and twenty-five repetitions of a mouth alcohol test. The results are outlined in Appendix C-1 and Appendix C-2.

Alcohol Reference Solution Analyses

The Intoxilyzer 8000 instrumentation was subjected to twenty-five (25) repetitions of alcohol reference solution analyses at each of the following concentrations: 0.05, 0.08, 0.20 g/210L. The results are outlined in Appendix C-1 and Appendix C-2.

Dry Gas Standard Analyses

The Intoxilyzer 8000 instrumentation was subjected to twenty-five (25) repetitions of dry gas standard analyses at the following concentration: 0.08 g/210L. The results are outlined in Appendix C-1 and Appendix C-2.

Analytical Results

All results met the requirements of FDLE/ATP Form 34 Instrument Evaluation Procedures for accuracy, precision, and correct instrument responses as prescribed by the manufacturer.

Conclusion

The results of this evaluation establish that the CMI, Inc. Intoxilyzer 8000 instrument produces accurate and reliable breath alcohol test results using software version 8100.26 and the evaluated features/updates. Based on the results of this evaluation:

- (1) The CMI, Inc. Intoxilyzer 8000 remains approved for use as an evidentiary breath test instrument in the State of Florida;
- (2) Effective January 4, 2006, software version 8100.26 has been evaluated in accordance with Instrument Evaluation Procedures FDLE/ATP Form 34 Revised March 2004, and meets the requirements of Rule 11D-8.003(2), Florida Administrative Code; and
- (3) The addition of the four (4) rubber feet to the instrument did not affect the accuracy and reliability of alcohol test results obtained using the CMI, Inc. Intoxilvzer 8000.

APPENDIX A

External Equipment

Reference Sample Devices (Simulators)

Make	Model	Serial Number
Guth	10-4D	SD1012
Guth	10-4D	SD1013
Guth	10-4D	SD1014
Guth	10-4D	SD1017
Guth	34C	G2404
Guth	34C	G2407
Guth	34C	G8152
Guth	34C	G11621
Guth	10-4D	SD1010
Guth	10-4D	SD1020

Digital Thermometers

Make	Model	Serial Number
Ertco-Eutechnics	4400	300948
Ertco-Eutechnics	4400	300918

External Printers

Make	Model	Serial Number
HP	1200	CNBJK47835
Samsung	ML1750	BAAX303716

APPENDIX B

Alcohol Reference Solution

	0.050 g/210L	The state of the s	10200000000000000000000000000000000000
	(g/100mL)	0.080 g/210L (g/100mL)	0.200 g/210L
Source	Alcohol Countermeasure	Alcohol Countermeasure	(g/100mL) Alcohol Countermeasure
Lat Manuel	Systems, Inc.	Systems, Inc.	Systems, Inc.
Lot Number	200504C	200504D	200205C
Manufacture Date	4/21/2005	4/21/2005	5/5/2005
Expiration Date	4/21/2007	4/21/2007	5/5/2007
Target Concentration (g/100mL)	0.0605	0.0968	0.2420
Acceptable Range (g/100mL)	0.0586 to 0.0623	0.0938 to 0.0997	0.2347 to 0.2492
1	0.0598	0.0964	0.2468
2	0.0597	0.0967	0.2479
3	0.0601	0.0961	0.2485
4	0.0601	0.0963	0.2468
5	0.0598	0.0964	0.2474
6	0.0596	0.0971	0.2471
7	0.0604	0.0965	0.2482
8	0.0602	0.0969	0.2472
9	0.0599	0.0965	0.2480
10	0.0599	0.0967	0.2482
11	0.0598	0.0965	0.2472
12	0.0602	0.0963	0.2476
13	0.0602	0.0963	0.2483
14	0.0602	0.0972	0.2478
15	0.0602	0.0967	0.2479
16	0.0595	0.0971	0.2477
17	0.0602	0.0967	0.2489
18	0.0594	0.0967	0.2472
19	0.0593	0.0970	0.2472
20	0.0598	0.0970	0.2475
Mean	0.0599	0.0967	0.2476
Std Dev	0.0003	0.0003	0.0006
Minimum	0.0593	0.0961	
Maximum	0.0604	0.0972	0.2465 0.2489

Dry Gas Standard

SSC 48-0-2-14 Dad (SAN MORE)		otariadi u	
Manufacturer			
	Lot Number	Expiration Date	Certified
	10.00		
	1 CONSTRUCTION		Concentration
Scott Specialty Gases, Inc.	E204001		Concentation
	5201021	July 22, 2007	0.080 g/210L
Scott Specialty Gases, Inc.	F0F000!		0.000 g/Z IUL
Cook Opecially Gases, Inc.	5252021	September 14, 2007	0.020 ~(010)
	k	00ptoffibol 14, 2007	0.080 g/210L

APPENDIX C-1 Analytical Results Intoxilyzer 8000 S.N. 80-001173

	0.00	0.05	0.08	0.20	0.08	Acetone	Mouth
	g/210L	g/210L	g/210L	g/210L	g/210L	Interference	Alcohol Test
	Test	Test	Test	Test	(g/210L)	Test	* = Slope Not
	(g/210L)	(g/210L)	(g/210L)	(g/210L)	Dry Gas Std	* = Interferent	Met
					Test	Detect	IAICE
1	0.000	0.049	0.078	0.199	0.079	INT*	SNM*
2	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
3	0.000	0.049	0.079	0.201	0.079	INT*	SNM*
4	0.000	0.048	0.079	0.200	0.079	INT*	SNM*
5	0.000	0.049	0.079	0.201	0.079	INT*	SNM*
6	0.000	0.049	0.080	0.201	0.079	INT*	SNM*
7	0.000	0.049	0.078	0.200	0.079	INT*	SNM*
8	0.000	0.049	0.080	0.200	0.079	INT*	SNM*
9	0.000	0.049	0.079	0.200	0.080	INT*	SNM*
10	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
11	0.000	0.049	0.079	0.199	0.080	INT*	SNM*
12	0.000	0.050	0.079	0.200	0.079	INT*	SNM*
13	0.000	0.049	0.079	0.200	0.080	INT*	SNM*
14	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
15	0.000	0.049	0.078	0.199	0.079	INT*	SNM*
16	0.000	0.049	0.079	0.200	0.080	INT*	SNM*
17	0.000	0.049	0.080	0.200	0.079	INT*	SNM*
18	0.000	0.049	0.079	0.199	0.079	INT*	SNM*
19	0.000	0.048	0.079	0.199	0.080	INT*	SNM*
20	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
21	0.000	0.049	0.079	0.200	0.079	INT*	
22	0.000	0.049	0.079	0.200	0.080	INT*	SNM* SNM*
23	0.000	0.050	0.079	0.199	0.079	INT*	
24	0.000	0.049	0.079	0.199	0.080		SNM*
25	0.000	0.049	0.079	0.199	0.079	INT*	SNM*
Mean		0.049	0.079	0.200		INT*	SNM*
Std Dev		0.0004	0.0005		0.079		E DE PRES PER LES PER LES
Maximum	The state of the s	0.050	0.080	0.0006	0.0005	<u> Contrago de Porto de la contrago d</u>	LASTO TO ASSOCIA
Minimum		0.030		0.201	0.080		
	A	Ctondand D	0.078	0.199	0.079	of the America	

Average Standard Deviation:

0.0005

APPENDIX C-2 Analytical Results Intoxilyzer 8000 S.N. 80-001175

	0.00	0.05	0.08	0.201	0.00	A	
	g/210L	g/210L	g/210L	1	0.08	Acetone	Mouth
	Test	Test	Test	g/210L	g/210L	Interference Test	Alcohol Test
	(g/210L)	(g/210L)	(g/210L)	Test (g/210L)	(g/210L) Dry Gas Std	* = Interferent	* = Slope Not
		(9/2102)	(GIZTOL)	(9/2/01.)	Test	Detect	Met
1	0.000	0.048	0.079	0.198	0.078	INT*	SNM*
2	0.000	0.049	0.078	0.200	0.078	INT*	SNM*
3	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
4	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
5	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
6	0.000	0.050	0.078	0.201	0.079	INT*	SNM*
7	0.000	0.050	0.079	0.200	0.078	INT*	SNM*
8	0.000	0.049	0.079	0.200	0.078	INT*	SNM*
9	0.000	0.049	0.079	0.199	0.079	INT*	SNM*
10	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
11	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
12	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
13	0.000	0.050	0.078	0.200	0.079	INT*	SNM*
14	0.000	0.050	0.079	0.200	0.079	INT*	SNM*
15	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
16	0.000	0.050	0.079	RFI*	0.079	INT*	SNM*
17	0.000	0.050	0.079	0.200	0.078	INT*	SNM*
18	0.000	0.050	0.079	0.201	0.078	INT*	SNM*
19	0.000	0.049	0.079	0.200	0.079	INT*	SNM*
20	0.000	0.050	0.079	0.200	0.079	INT*	SNM*
21	0.000	0.051	0.078	0.200	0.079	INT*	SNM*
22	0.000	0.050	0.079	0.200	0.078	INT*	SNM*
23	0.000	0.050	0.079	0.200	0.079	INT*	SNM*
24	0.000	0.050	0.079	0.200	0.079	INT*	SNM*
25	0.000	0.050	0.079	0.199	0.079	INT*	SNM*
26			Landing Barrier	0.199	u AMF 6	AND PROPERTY OF THE PARTY OF	or a forest feet and a feet
Mean		0.050	0.079	0.200	0.079		
Std Dev		0.0007	0.0004	0.0006	0.0005	57416 Magazi (1775)	at to the letter of the letter
Maximum		0.051	0.079	0.201	0.079		Fig. 18 2 1928
Minimum		0.048	0.078	0.198	0.078	experi 174 gant 670 kg 1 o Carolina 175 kg 1860 kg	
	Average	Standard D	eviation:		0.0005		and the second s

Notes: ¹ RFI from cell phone was detected during repetition No. 16 and the instrument aborted testing. Testing was resumed with repetition No. 17.