Barfield, Laura

From: Randy Renner <randy.renner@airgas.com>
Sent: Thursday, November 08, 2012 11:23 AM
To: Barfield, Laura
Subject: RE: Airgas Round Robin

Sorry Laura I wasn't clear, it is the tank number which is next to the lot number on the label.

I'm well considering the election.

How are you?

Randy Renner
Quality Manager
314-533-3100 x164

From: Barfield, Laura [mailto:LauraBarfield@fdle.state.fl.us]
Sent: Thursday, November 08, 2012 8:59 AM
To: Randy Renner
Subject: RE: Airgas Round Robin

Randy,

I am not finding the serial number on my Round Robin Tank. Is it a number that is on the actual label (like the lot number is) or is it "branded" into the cylinder itself (a number like GX0067707) or is it on the bottom of the cylinder (a number like41963).

Please advise and I will then be able to send you our results.

Thanks and hope all is well!

Laura

From: Randy Renner [mailto:randy.renner@airgas.com]
Sent: Monday, October 15, 2012 2:26 PM
To: Barfield, Laura
Subject: Airgas Round Robin

Laura,

The Airgas round robin program is about to begin!

This round robin requires participants to provide their results on the enclosed reporting document by November 30th, 2012 or sooner. You will be receiving a cylinder marked as **0-1000 ppm ethanol in nitrogen** soon. The

cylinder will be labeled with a **Lot Number and serial number** that you will use on your reporting document. Please provide the instrument or instruments used along with the analyzed ethanol ppm value and or Bac concentration. Participants may analyze on as many instruments as they would like, please provide serial numbers of the instrument or some form of identification. All cylinders provided were filled from the same lot. You may use the cylinders however you would like after your analysis is completed. Airgas will provide the results to Intoximeters no later than December 14th, 2012 for distribution. Intoximeters will provide each participants results directly and only to that participant. Airgas will not publish the results; this is an Airgas internal round robin program that complies with their quality system, we are not a PT provider. I hope all is well and thanks for helping Airgas with this requirement of their ISO 17025 quality program.

Barfield, Laura

From: Barfield, Laura
Sent: Sunday, November 18, 2012 12:56 PM
To: randy.renner@airgas.com
Subject: 2012 Round Robin Results
Attachments: 2012 Round Robin Results.pdf

2012 Round Robin Results are attached.
Laura

Airgas Round Robin Reporting Document

Customer	Florida Dept of Law Enforcement
Contact Name	Laura D Barfield
Round Robin Lot Number	AG227701
Serial Number	2
Instrument	Intoxilyzer 8000

Dry Gas Mixture	
Instrument Serial No.	**Results Bac/PPM Value**
80-000227	0.074/193 PPM
80-000228	0.074/193 PPM

NOTE: Round Robin Tank marked "C". In Florida we always use tanks marked "U".
Formula used for ppm: Result/0.10 * 260.5

FDLE
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-000227
11/08/2012
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:32
Control Test	0.074	11:32
Air Blank	0.000	11:33
Control Test	0.074	11:33
Air Blank	0.000	11:33
Control Test	0.073	11:34
Air Blank	0.000	11:34
Control Test	0.074	11:34
Air Blank	0.000	11:35
Control Test	0.073	11:35
Air Blank	0.000	11:36
Control Test	0.074	11:36
Air Blank	0.000	11:37
Control Test	0.074	11:37
Air Blank	0.000	11:37
Control Test	0.073	11:38
Air Blank	0.000	11:38
Control Test	0.074	11:39
Air Blank	0.000	11:39
Control Test	0.075	11:39
Air Blank	0.000	11:40

Control Test Stats

Average	0.0738
Std Dev	0.0006
Rel Std Dev(%)	0.8570

.074/0.10 * 260.5
= 193 ppm
LDB

Operator's Signature

FDLE
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-000228
11/08/2012
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:42
Control Test	0.073	11:42
Air Blank	0.000	11:43
Control Test	0.074	11:43
Air Blank	0.000	11:44
Control Test	0.074	11:44
Air Blank	0.000	11:45
Control Test	0.073	11:45
Air Blank	0.000	11:45
Control Test	0.074	11:46
Air Blank	0.000	11:46
Control Test	0.073	11:47
Air Blank	0.000	11:47
Control Test	0.074	11:47
Air Blank	0.000	11:48
Control Test	0.074	11:48
Air Blank	0.000	11:49
Control Test	0.074	11:49
Air Blank	0.000	11:50
Control Test	0.074	11:50
Air Blank	0.000	11:51

Control Test Stats

Average	0.0737
Std Dev	0.0005
Rel Std Dev(%)	0.6554

.074/0.10 * 260.5
= 193 ppm
LDB

Operator's Signature

Additional AirGas stability study on 0.08 g/210L DGS standards LDB

Lot Number	Passivation date	original Test Date	ppm value	second test date	ppm value	
ag932104-21	11/6/2009	11/17/2009	220.8	6/16/2011	222.8	
ag932104-07	11/6/2009	11/17/2009	220.6	6/16/2011	223.4	
ag932702-13	11/20/2009	11/23/2009	220.8	6/2/2011	222.0	
ag932702-3	11/20/2009	11/23/2009	221.4	6/2/2011	222.9	
ag932203-26	11/12/2009	11/18/2009	220.4	6/1/2009	220.9	
ag932203-17	11/12/2009	11/18/2009	218.5	6/1/2009	218.6	
ag932202-2	11/12/2009	11/18/2009	219	6/1/2009	220.4	
ag932202-13	11/12/2009	11/18/2009	221	6/1/2009	221.6	
ag932301-2	11/12/2009	11/19/2009	220	6/22/2011	222.7	
ag932301-23	11/12/2009	11/19/2009	220.2	6/22/2011	223.5	
ag932301-23					223.8	blew down to <100 psi and retested
ag932201-1	11/12/2009	11/18/2009	220.6	8/1/2011	221.4	
ag932201-23	11/12/2009	11/18/2009	220.6	8/1/2011	221.4	
ag932302-26	11/12/2009	11/19/2011	220.3	8/2/2011	221.4	
ag932302-11	11/12/2009	11/19/2011	220.1	8/2/2011	221.8	
ag932703-06	11/20/2009	11/23/2009	220	8/8/2011	222.1	
ag932701-26	11/20/2009	11/23/2009	219.9	8/8/2011	222	
ag932701-14	11/20/2009	11/23/2009	220.5	8/8/2011	222.6	

Lot Number	Original fill date	Age of cylinder in months	Airgas original value ppm	Mean of all Tests ppm	Difference ppm %	Standard Deviation	Instrument	Reported Value ppm
AG911801-08	4/28/2009	31	99.9	100.66	0.76%	0.6865	ECIRII	95.2
AG910301-24	4/13/2009	31	102.6	103.60	0.97%	0.5086	ECIRII	97.9
	4/13/2009	31	102.6	103.60	0.97%	0.5086	ECIRII	100.6
	4/13/2009	31	102.6	103.60	0.97%	0.5086	ECIRII	97.9
	4/13/2009	31	102.6	103.60	0.97%	0.5086	ECIRII	97.9
AG913301-15	5/13/2009	30	257	257.10	0.01%	0.5952	ECIRII	258.0
	5/13/2009	30	257	257.10	0.01%	0.5952	ECIRII	261.0
	5/13/2009	30	257	257.10	0.01%	0.5952	ECIRII	256.0
AG906301-22	3/4/2009	32	219.4	221.20	0.82%	1.2014	Intoxilyzer 8000	221.9
	3/4/2009	32	219.4	221.20	0.82%	1.2014	Intoxilyzer 8000	218.3
	3/4/2009	32	219.4	221.20	0.82%	1.2014	Intoxilyzer 8000	218.8
AG833803-11	12/4/2008	35	262.7	261.23	0.56%	1.0010	ECIRII	258.0
AG901401-15	1/14/2009	34	225.9	226.45	0.25%	0.5471	ECIRII	223.0
AG908904-18	3/30/2009	32	235.5	235.34	0.07%	1.3565	ECIRII	236.6
	3/30/2009	32	235.5	235.34	0.07%	1.3565	ECIRII	233.9
AG906802-24	3/9/2009	32	288.2	288.76	0.20%	0.9245	Intoxilyzer 8000	290.5
	3/9/2009	32	288.2	288.76	0.20%	0.9245	Intoxilyzer 8000	287.9
	3/9/2009	32	288.2	288.76	0.20%	0.9245	Intoxilyzer 8000	286.6
AG904902-08	2/18/2009	33	213.9	213.90	0.00%	0.6103	Datamaster DMT	218.6
	2/18/2009	33	213.9	213.90	0.00%	0.6103	Datamaster DMT	219.6
AG831001-30	11/6/2008	36	102.5	102.18	0.32%	0.5078	Alco Sensor IV	101.3
AG903603-21	2/5/2009	33	218.4	218.20	0.10%	0.9614	Alco Sensor IV	219.3
	2/5/2009	33	218.4	218.20	0.10%	0.9614	Alco Sensor IV	220.5

All round robin samples analyzed by the participants were taken from the Airgas retain program. The samples originally were filled, and analyzed following Airgas standard operating procedures, and were retained for stability checks. The samples were analyzed multiple times over a minimum of thirty months or six months past the expiration date. The report notes the original fill date of the cylinder, along with the lot number, and the age in months of the sample. The mean of all analyses, relative standard deviation of all analyses, and percentage difference from original analysis is listed on report. All participants reported bac in ppm value as listed, along with the Instrument used for analysis. Some participants chose to run checks on more than one instrument and this is seen in the report as well. I have highlighted each participates results in this report specifically for that participant; this information will not be shared with anyone else. Thanks so much for your help in meeting the Airgas requirement of this year's round robin; I look forward to even more participation next year.

If you have any questions please respond through e-mail randy.renner@airgas.com , or you can reach me at 314-533-3100 x164. Have a great Holiday Season and talk to you soon.

Regards,

Randy Renner

Airgas Round Robin Reporting Document

Customer	FDLE
Contact Name	Laura Barfield
Round Robin Lot Number	FL906802-24
Instrument	Intoxilyzer 8000

Dry Gas Mixture	
Instrument Serial No.	**Results PPM Value**
80-001134	291.76ppm; 289.16ppm
80-001149	289.16ppm; 286.55ppm
80-001329	286.55ppm; 286.55ppm

ppm = (Result (g/210L) / 0.10) * 260.5

INTOXILYZER 8000
Instrument Initialization
10:42 12/06/2011

INDIAN RIVER CO. SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001329
12/06/2011
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:01
Control Test	0.110	11:01
Air Blank	0.000	11:01
Control Test	0.110	11:02
Air Blank	0.000	11:02
Control Test Stats		
Average	0.1100	
Std Dev	0.0000	
Rel Std Dev(%)	0.0000	

Operator's Signature

INTOXILYZER 8000
Instrument Initialization
10:52 12/06/2011

ST JOHN'S COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001134
12/06/2011
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:06
Control Test	0.112	11:07
Air Blank	0.000	11:07
Control Test	0.111	11:07
Air Blank	0.000	11:08
Control Test Stats		
Average	0.1115	
Std Dev	0.0007	
Rel Std Dev(%)	0.6342	

Operator's Signature

INTOXILYZER 8000
Instrument Initialization
10:58 12/06/2011

LAKE HELEN P.D.
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001149
12/06/2011
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:22
Control Test	0.111	11:22
Air Blank	0.000	11:23
Control Test	0.110	11:23
Air Blank	0.000	11:24
Control Test Stats		
Average	0.1105	
Std Dev	0.0007	
Rel Std Dev(%)	0.6399	

Operator's Signature

Barfield, Laura

From: Randy Renner [randy.renner@airgas.com]

Sent: Tuesday, November 01, 2011 10:29 AM

To: Verna.Mendes@rcmp-grc.gc.ca; CHouston@kdheks.gov; Alka.Lohmann@dfs.virginia.gov; alcotek@midwest.net; Susan.Hackworthy@dot.wi.gov; tgwhite@wvsp.state.wv.us; paul.glover@dhhs.nc.gov; Barfield, Laura; Greg Scott; chrisd@intox.com; Samera.Zavaro@tn.gov; Nancy_Easum@isp.state.il.us

Cc: Steve Johnson; Jim Wamhoff; Randy Renner

Subject: Airgas Round Robin

Attachments: intoxairgasroundrobinreportingdoc2011.doc

All,

The Airgas round robin program is about to begin!

This round robin requires participants to provide their results on the enclosed reporting document by November 30th, 2011 or sooner. You will be receiving a cylinder marked as **0-1000 ppm ethanol in nitrogen** soon. The cylinder will have a **Part Number** that you will use on your reporting document. Please provide the instrument or instruments used along with the analyzed ethanol ppm value. Participants may analyze on as many instruments as they would like, please provide serial numbers of the instrument or some form of identification. The cylinders provided are part of the Airgas retain program and have been analyzed over the 30 month retain period. You may use the cylinders however you would like after your analysis is completed. Airgas will provide the results to Intoximeters no later than December 15th, 2011 for distribution. Intoximeters will provide each participants results directly and only to that participant. Airgas will not publish the results; this is an Airgas internal round robin program that complies with their quality system, we are not a PT provider. I hope all is well and thanks for helping Airgas with this requirement of their ISO 17025 quality program.

Any Questions,
Randy Renner
Airgas Mid America
Quality Manager
314-533-3100 x164
314-378-3200 cell

Barfield, Laura

From: Randy Renner <randy.renner@airgas.com>
Sent: Wednesday, December 07, 2011 8:58 AM
To: Barfield, Laura
Subject: RE: Round Robin

If you are using the offset fuel cell calibration you would take your reading and divide by 0.10 * 272ppm. If using no offset take your reading and divide by 0.10 * 260.5ppm.

Example 1: 0 .067/0.10=0.67*272=182.24ppm
Example 2: 0.067/.010=0.67*260.5=174.53ppm

From: Barfield, Laura [mailto:LauraBarfield@fdle.state.fl.us]
Sent: Tuesday, December 06, 2011 11:44 AM
To: Randy Renner
Subject: RE: Round Robin

Thank you!
Now one more question...How do I convert g/210L to PPM?
Is there an equation I can use?
Laura

From: Randy Renner [mailto:randy.renner@airgas.com]
Sent: Tuesday, December 06, 2011 11:10 AM
To: Barfield, Laura
Subject: RE: Round Robin

Here it is, and thanks for participating.

From: Barfield, Laura [mailto:LauraBarfield@fdle.state.fl.us]
Sent: Tuesday, December 06, 2011 9:53 AM
To: Randy Renner
Subject: RE: Round Robin

Analyzing today...
Can you send me the sheet to report our results on?
Thanks,
Laura

From: Randy Renner [mailto:randy.renner@airgas.com]
Sent: Friday, December 02, 2011 3:46 PM
To: Barfield, Laura
Subject: Round Robin

Laura,

Hope all is well and your ready for Christmas.

I was wondering if you had a chance to analyze the round robin cylinder that was sent to you in November? If you can't participate just let me know.

If I don't hear from you have a great Christmas.

Barfield, Laura

From: Randy Renner <randy.renner@airgas.com>
Sent: Monday, December 19, 2011 1:39 PM
To: Barfield, Laura
Subject: RE: Round Robin

I will just average the results if that's okay.

From: Barfield, Laura [mailto:LauraBarfield@fdle.state.fl.us]
Sent: Monday, December 19, 2011 12:22 PM
To: Randy Renner
Subject: Re: Round Robin

Ok, that sounds good, shall I submit a new report with the mean recorded?
Sent from my Wireless Blackberry

From: Randy Renner [mailto:randy.renner@airgas.com]
Sent: Monday, December 19, 2011 10:48 AM
To: Barfield, Laura
Subject: RE: Round Robin

Do you want to report the mean of the two analyses?

From: Barfield, Laura [mailto:LauraBarfield@fdle.state.fl.us]
Sent: Monday, December 19, 2011 9:46 AM
To: Randy Renner
Subject: Re: Round Robin

Randy, each analysis was in duplicate. Laura
Sent from my Wireless Blackberry

From: Randy Renner [mailto:randy.renner@airgas.com]
Sent: Monday, December 19, 2011 10:41 AM
To: Barfield, Laura
Subject: RE: Round Robin

Laura,

Can you tell me what ppm value I should use? 2 ppm values are listed on each line for each instrument serial number.

Did you have two different analyst results?

From: Barfield, Laura [mailto:LauraBarfield@fdle.state.fl.us]
Sent: Sunday, December 18, 2011 1:38 PM
To: Randy Renner
Subject: RE: Round Robin

Randy,
I know these results are past your reporting deadline, but you might find them useful.
I am definitely interested in the acetone standards.

I will get with you after the new year.
Thanks and Merry Christmas!
Laura

From: Randy Renner [mailto:randy.renner@airgas.com]
Sent: Tuesday, December 13, 2011 3:45 PM
To: Barfield, Laura
Subject: RE: Round Robin

great

From: Barfield, Laura [mailto:LauraBarfield@fdle.state.fl.us]
Sent: Tuesday, December 13, 2011 1:37 PM
To: Randy Renner
Subject: Re: Round Robin

Yes...I am on the road right now but will send them to you tonight...Laura
Sent from my Wireless Blackberry

From: Randy Renner [mailto:randy.renner@airgas.com]
Sent: Tuesday, December 13, 2011 02:32 PM
To: Barfield, Laura
Subject: RE: Round Robin

Laura,

Looking to send report out by Thursday. Should I include your testing or not?

I have the acetone standards we talked about a few months ago, if you would like us to do the testing on your analyzer. Let me know.

From: Barfield, Laura [mailto:LauraBarfield@fdle.state.fl.us]
Sent: Tuesday, December 06, 2011 11:44 AM
To: Randy Renner
Subject: RE: Round Robin

Thank you!
Now one more question...How do I convert g/210L to PPM?
Is there an equation I can use?
Laura

From: Randy Renner [mailto:randy.renner@airgas.com]
Sent: Tuesday, December 06, 2011 11:10 AM
To: Barfield, Laura
Subject: RE: Round Robin

Here it is, and thanks for participating.

From: Barfield, Laura [mailto:LauraBarfield@fdle.state.fl.us]
Sent: Tuesday, December 06, 2011 9:53 AM

To: Randy Renner
Subject: RE: Round Robin

Analyzing today...
Can you send me the sheet to report our results on?
Thanks,
Laura

From: Randy Renner [mailto:randy.renner@airgas.com]
Sent: Friday, December 02, 2011 3:46 PM
To: Barfield, Laura
Subject: Round Robin

Laura,

Hope all is well and your ready for Christmas.

I was wondering if you had a chance to analyze the round robin cylinder that was sent to you in November? If you can't participate just let me know.

If I don't hear from you have a great Christmas.

FDLE

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
http://www.fdle.state.fl.us/atp

MEMORANDUM

TO: Department Inspectors and Agency Inspectors

FROM: Laura D. Barfield, Alcohol Testing Program Manager LDB

DATE: November 23, 2009

SUBJECT: Change of Address – Distributor of Airgas Dry Gas Standard

---

Please update your records to reflect the following change of address for the official distributor of Airgas dry gas standard:

Intoximeters, Inc.
2081 Craig Road
St. Louis, MO 63146
Telephone: (314) 429-4000
Fax: (314) 429-4170

Airgas dry gas standard may also be obtained from other vendors in Florida.

If you have any questions, please feel free to contact me at (850) 617-1290.

LDB

Barfield, Laura

From: Leia Lockhart [llockhart@intox.com]
Sent: Friday, November 06, 2009 6:10 PM
To: Barfield, Laura
Subject: Intoximeters New Address Information

Intoximeters, Inc.

World Leader in Breath Alcohol Testing for Over Sixty Years

November 2, 2009

WE ARE MOVING!

Effective: November 23, 2009
Our New Location Will Be:

Intoximeters, Inc.
2081 Craig Road
St. Louis, MO 63146

All Phone Numbers Will Remain The Same:
Tel: 314-429-4000
Fax: 314-429-4170

www.intox.com

****WE WILL BE CLOSED ON MOVING DAY 11/20/09****

Please Update Your Records With This New Address and Note the Closing Date

FDLE

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
http://www.fdle.state.fl.us/atp

Charlie Crist, *Governor*
Bill McCollum, *Attorney General*
Alex Sink, *Chief Financial Officer*
Charles H. Bronson, *Commissioner of Agriculture*

MEMORANDUM

TO: Dry Gas Standard Manufacturers

VIA: Dry Gas Standard Distributors

FROM: Laura D. Barfield, Alcohol Testing Program Manager

DATE: March 20, 2009

SUBJECT: Source of Dry Gas Standard(s) for Florida

The Florida Department of Law Enforcement Alcohol Testing Program is currently seeking sources of dry gas standard for approval for use in Florida. Only the manufacturer of the dry gas standard may be approved. If you are interested in becoming a possible source of dry gas standard in Florida, please complete the following questions and supply the required documentation. This information can either be faxed, mailed or emailed to me.

Should you have any questions, please feel free to contact me at (850) 617-1290 or at laurabarfield@fdle.state.fl.us.

THE FOLLOWING INFORMATION MUST BE SUPPLIED FROM A MANUFACTURER OF DRY GAS STANDARD, ALSO KNOWN AS ETHANOL BREATH STANDARD:

REQUIREMENTS OF CHAPTER 11D-8, FLORIDA ADMINISTRATIVE CODE

11D-8.002 Definitions.
(20) Dry Gas Standard – a standard consisting of a mixture of alcohol and gas which produces a known alcohol vapor concentration used to verify the calibration of a breath test instrument.

11D-8.0036 Approval of Dry Gas Standards Source.
(1) The Department shall approve a source of dry gas standards for use by agencies in the State of Florida. The source approved by the Department shall be an entity that manufactures dry gas standards and meets the following requirements:
(a) The source must produce dry gas standards which are traceable to the National Institute of Standards and Technology.
(b) Each dry gas standard lot produced by the source must be certified by the source as to its contents and alcohol vapor concentration.

(c) The source must be capable of producing a minimum of 300 cylinders of dry gas standard during a thirty day period at an alcohol vapor concentration of 0.08 g/210L.
(d) The source must have performed and documented tests that demonstrate that the source's dry gas standards are reliable for at least two years from the date of manufacture.
(2) Dry gas standard cylinders produced by the approved source must not be used beyond the expiration date.

1. ARE YOU AN ENTITY THAT MANUFACTURES DRY GAS STANDARD?
   a. WHAT IS THE BUSINESS NAME OF THIS ENTITY?
   b. WHAT IS THE PHYSICAL ADDRESS, TELEPHONE NUMBER, FAX NUMBER AND CONTACT PERSON FOR THIS ENTITY?
   c. ALTHOUGH MANY VENDORS MAY SELL YOUR PRODUCT, DO YOU HAVE AN OFFICIAL DISTRIBUTOR FOR YOUR DRY GAS STANDARD?
   d. IF SO, WHAT IS THE NAME, PHYSICAL ADDRESS, TELEPHONE NUMBER, FAX NUMBER AND CONTACT PERSON FOR THIS DISTRIBUTOR?
2. DO YOU MANUFACTURE A 0.08 g/210L DRY GAS STANDARD?
3. IS YOUR DRY GAS STANDARD TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST)?
   a. IS THIS TRACEABILITY DOCUMENTED FOR THE USER?
4. DO YOU PROVIDE A CERTIFICATE OF ANALYSIS FOR EACH LOT OF DRY GAS STANDARD PRODUCED?
   a. DO YOU PROVIDE A CERTIFICATE OF ANALYSIS FOR THE LOT WITH EACH BOTTLE OF DRY GAS STANDARD?
5. ARE YOU CAPABLE OF PRODUCING A MINIMUM OF 300 CYLINDERS OF DRY GAS STANDARD WITHIN A THIRTY DAY PERIOD?
   a. WHAT IS THE APPROXIMATE MAXIMUM AMOUNT OF DRY GAS STANDARD THAT CAN BE MANUFACTURERED IN A THIRTY DAY PERIOD?
   b. WHAT IS THE APPROXIMATE MAXIMUM AMOUNT OF DRY GAS STANDARD THAT CAN BE MANUFACTURED IN A 24 HOUR PERIOD?
6. DO YOU HAVE DOCUMENTATION THAT DEMONSTRATES YOUR PRODUCT IS RELIABLE FOR AT LEAST TWO YEARS FROM THE DATE OF MANUFACTURE?
7. DOES YOUR DRY GAS STANDARD HAVE AN EXPIRATION DATE?
   a. IS THIS EXPIRATION DATE LISTED ON THE CYLINDER OF DRY GAS STANDARD?
   b. IS THIS EXPIRATION DATE LISTED ON THE CERTIFICATE OF ANALYSIS FOR THE LOT OF DRY GAS STANDARD?
8. DOES YOUR DRY GAS STANDARD CONSIST OF A MIXTURE OF ALCOHOL AND GAS WHICH PRODUCES A KNOWN ALCOHOL VAPOR CONCENTRATION?
   a. WHAT IS THE NAME OF THE GAS (BALANCE GAS) THAT THE ALCOHOL IS MIXED WITH?
9. REQUIRED DOCUMENTATION TO BE PROVIDED:
   a. A COPY OF A SAMPLE CERTIFICATE OF ANALYSIS THAT IS USED WITH YOUR DRY GAS STANDARD.
   b. A COPY OF A SAMPLE LABEL FROM A BOTTLE OF THE DRY GAS STANDARD.
   c. A COPY OF YOUR PRODUCT RELIABILITY REPORT:
      i. INCLUDE INFORMATION FROM AT LEAST TEN (10) DIFFERENT LOTS AND ENSURE AT LEAST TWO OF THESE LOTS ARE FOR A 0.08 g/210l DRY GAS STANDARD.
   d. DOCUMENTATION SUPPORTING THE TRACEABILITY OF YOUR DRY GAS STANDARD TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (FOR EXAMPLE,

YOUR CERTIFICATE OF ANALYSIS, A COPY OF YOUR ANALYTICAL PROCEDURE, OR OTHER DOCUMENTATION THAT SUPPORTS THIS).

e. A COPY OF A SPECIFICATIONS SHEET FOR YOUR PRODUCT, IF AVAILABLE.
f. A COPY OF A SAMPLE WORK ORDER, IF AVAILABLE.

THE MANUFACTURING PROCESS

10. BRIEFLY DESCRIBE HOW YOUR DRY GAS STANDARD IS MANUFACTURED. INCLUDE ANY QUALITY ASSURANCE AND QUALITY CONTROL PROCESSES THAT ARE IMPLEMENTED IN THIS MANUFACTURING PROCESS.
    a. IF YOU PREPARE A MASTER CYLINDER:
        i. WHAT IS THE APPROXIMATE SIZE OF THE MASTER CYLINDER?
        ii. IS THIS MASTER CYLINDER CONDITIONED OR CLEANSED PRIOR TO USE?
        iii. DO YOU ENSURE THE MASTER CYLINDER IS EMPTY PRIOR TO FILLING?
        iv. HOW IS THE MASTER CYLINDER FILLED?
        v. WHAT IS THE PURITY OF THE ETHANOL AND BALANCE GAS USED FOR PREPARING THE MASTER CYLINDER?
        vi. DO YOU BEGIN WITH LIQUID ETHANOL AND LIQUID BALANCE GAS AND CONVERT THEM TO GASES WHILE BLENDING THE MASTER CYLINDER?
        vii. IS THERE A NAME FOR THE MASTER CYLINDER FILLING PROCESS?
        viii. IS THERE A 'REAL TIME' ANALYSIS OF THE GAS MIXTURE AS THE MASTER CYLINDER IS BEING FILLED?
        ix. HOW MANY MASTER CYLINDERS CAN BE FILLED AT ONE TIME?
        x. IS THERE A WAITING PERIOD AFTER FILLING THE MASTER CYLINDER PRIOR TO CONINUING WITH THE MANUFACTURING PROCESS? IF SO, HOW LONG IS THIS WAIT PERIOD?
        xi. IS THE MASTER CYLINDER ANALYZED FOR CONCENTRATION AND PRESENCE OF CONTAMINANTS? IF SO, WHAT ANALYTICAL METHOD IS USED AND ARE NIST TRACEABLE STANDARDS USED DURING THIS ANALYSIS?
    b. IN THE PREPARATION OF THE INDIVIDUAL DRY GAS CYLINDERS (OR LOT OF DRY GAS STANDARD CYLINDERS):
        i. DO YOU CONDITION OR CLEANSE THE CYLINDERS PRIOR TO USE?
        ii. DO YOU ENSURE THE CYLINDER IS EMPTY PRIOR TO FILLING?
        iii. HOW MANY CYLINDERS CAN BE FILLED DURING THIS PROCESS?
        iv. WHAT IS THE MAXIMUM NUMBER OF DRY GAS STANDARD CYLINDERS THE MAKE UP A LOT?
        v. IS THERE A WAITING PERIOD AFTER THE FILLING OF THE DRY GAS STANDARD BOTTLES? IF SO, HOW LONG IS THIS WAIT PERIOD?
        vi. IS EACH BOTTLE OF DRY GAS STANDARD FROM THE LOT ANALYZED FOR CONCENTRATION AND CONTAMINATION? IF SO, WHAT ANALYTICAL METHOD IS USED AND ARE NIST TRACEABLE STANDARDS USED DURING THIS ANALYSIS?
        vii. DO YOU MAINTAIN ANY CYLINDER(S) FROM A LOT FOR STABILITY AND/OR SHELF LIFE TESTING?

THE DRY GAS STANDARD PRODUCT

11. WHAT DO YOU CALL YOUR PRODUCT?

12. WHAT ARE THE SIZES AND TYPES OF DRY GAS STANDARD CYLINDERS YOU CAN PRODUCE (FOR EXAMPLE, 105 LITER, 28 LITER, 108 LITER; ALUMINUM OR STEEL CYLINDERS)?
13. IS THERE ANY SPECIAL STORAGE OR HANDLING CONSIDERATIONS?
    a. WHAT WILL HAPPEN IF THE PRODUCT IS STORED IN EXTREME HOT TEMPERATURES?
    b. WHAT WILL HAPPEN IF THE PRODUCT IS STORED IN EXTREME COLD TEMPERATURES?
    c. WHAT ARE THE SHIPPING REQUIREMENTS?
14. HOW ARE LOT NUMBERS ASSIGNED?
    a. IS THERE ANYTHING UNIQUE ABOUT THE LOT NUMBER THAT CAN BE USED TO IDENTIFY A MANUFACTURE DATE, AN EXPIRATION DATE OR SOMETHING REGARDING THE MANUFACTURING PROCESS?
15. IS THERE ANY QUALITY ASSURANCE OR QUALITY CONTROL REVIEW IMPLEMENTED IN THE LABELING OF THE CYLINDERS FOR A LOT OF DRY GAS STANDARD?
16. IS THERE ANY QUALITY ASSURANCE OR QUALITY CONTROL REVIEW IMPLEMENTED IN THE CREATION OF THE CERTIFICATE OF ANALYSIS FOR A LOT OF DRY GAS STANDARD?
17. IS YOUR DRY GAS STANDARD MANUFACTURED AT MORE THAN ONE FACILITY? IF SO, PLEASE IDENTIFY ALL LOCATIONS WHERE DRY GAS STANDARD IS MANUFACTURED.
18. HOW ARE THE DRY GAS STANDARDS ORDERED AND SHIPPED?
    a. DO CUSTOMERS PLACE ORDERS WITH THE MANUFACTURER OR THROUGH A DISTRIBUTOR?
    b. IS THE DRY GAS STANDARD SHIPPED FROM THE MANUFACTURER OR THE DISTRIBUTOR?
    c. HOW DO YOU SHIP YOUR DRY GAS STANDARD?

COST

19. WHAT IS THE *APPROXIMATE* COST OF A BOTTLE OF 0.08 g/210L DRY GAS STANDARD?
20. DOES THIS PRICE INCLUDE SHIPPING? IF NOT, WHAT IS THE *APPROXIMATE* ADDITIONAL COST OF SHIPPING THE PRODUCT?
21. WHAT METHOD(S) OF PAYMENT IS ACCEPTED?
    a. WHO RECEIVES PAYMENT, THE MANUFACTURER OR THE DISTRIBUTOR?

OTHER HELPFUL INFORMATION

22. DO YOU SUPPLY DRY GAS STANDARD TO ANY OTHER STATE(S) THAT USES EVIDENTIARY BREATH TEST INSTRUMENTATION FOR BREATH ALCOHOL ANALYSIS?
    a. IF SO, PLEASE LIST THESE STATES AND THE BREATH TEST INSTRUMENT(S) USED.
23. IS IT POSSIBLE FOR YOU TO PREPARE DRY GAS STANDARDS FOR THE FOLLOWING:
    a. 0.00 g/210L (BALANCE GAS ONLY)?
    b. 0.04 g/210L ETHANOL?
    c. 0.10 g/210L ETHANOL?
    d. 0.30 g/210L ETHANOL?
    e. 0.00 g/210L ETHANOL AND/OR 0.08 g/210L ETHANOL + 0.03 g/210L ACETONE?
24. IF POSSIBLE, PLEASE PROVIDE AN *APPROXIMATE* COST FOR THE DRY GAS STANDARDS LISTED IN QUESTION 23 (A THROUGH E).

Barfield, Laura

From: Debbie Mandell [debbie@intox.com]
Sent: Thursday, April 02, 2009 12:37 PM
To: Barfield, Laura
Cc: Greg Scott; Chris Dalton; Rankine Forrester; Mark Gilmer; John Evans; Byron Greenwood; Cathy Orzel
Subject: Dry Gas Standard Source Approval Questionaire
Attachments: completed questionaire.DOC; Tank Label.pdf; Cert of Analysis.pdf

Dear Laura:

In care of Mark Gilmer, I am forwarding the completed Dry Gas Standard Source Approval Questionaire as you requested. In addition to the questionaire, attached is a copy of a tank label and Certificate of analysis for your review.

Thank you for allowing Intoximeters Inc. this opportunity. We look forward to hearing from you soon.

If you have any questions or need additional information, you may contact Mark Gilmer at 314-583-9539 or you may contact me directly at the phone number or email address listed below.

Sincerely,

Debbie Mandell
Inside Sales Manager
Intoximeters, Inc.
8110 Lackland Rd.
St. Louis, MO 63114
debbie@intox.com
800.451.8639

THE FOLLOWING INFORMATION MUST BE SUPPLIED FROM A MANUFACTURER OF DRY GAS STANDARD, ALSO KNOWN AS ETHANOL BREATH STANDARD:

REQUIREMENTS OF CHAPTER 11D-8, FLORIDA ADMINISTRATIVE CODE

11D-8.002 Definitions.
(20) Dry Gas Standard – a standard consisting of a mixture of alcohol and gas which produces a known alcohol vapor concentration used to verify the calibration of a breath test instrument.

11D-8.0036 Approval of Dry Gas Standards Source.
(1) The Department shall approve a source of dry gas standards for use by agencies in the State of Florida. The source approved by the Department shall be an entity that manufactures dry gas standards and meets the following requirements:
(a) The source must produce dry gas standards which are traceable to the National Institute of Standards and Technology.
(b) Each dry gas standard lot produced by the source must be certified by the source as to its contents and alcohol vapor concentration.
(c) The source must be capable of producing a minimum of 300 cylinders of dry gas standard during a thirty day period at an alcohol vapor concentration of 0.08 g/210L.
(d) The source must have performed and documented tests that demonstrate that the source's dry gas standards are reliable for at least two years from the date of manufacture.
(2) Dry gas standard cylinders produced by the approved source must not be used beyond the expiration date.

1. ARE YOU AN ENTITY THAT MANUFACTURES DRY GAS STANDARD?
   Yes.

   a. WHAT IS THE BUSINESS NAME OF THIS ENTITY?
      Mid America Airgas

   b. WHAT IS THE PHYSICAL ADDRESS, TELEPHONE NUMBER, FAX NUMBER AND CONTACT PERSON FOR THIS ENTITY?
      3500 Bernard Street
      St. Louis Mo. 63103
      Telephone: 314-533-3100
      Fax: 314-533-4368
      Contact: Randy Renner

   c. ALTHOUGH MANY VENDORS MAY SELL YOUR PRODUCT, DO YOU HAVE AN OFFICIAL DISTRIBUTOR FOR YOUR DRY GAS STANDARD?
      Yes. Intoximeters, Inc.

   d. IF SO, WHAT IS THE NAME, PHYSICAL ADDRESS, TELEPHONE NUMBER, FAX NUMBER AND CONTACT PERSON FOR THIS DISTRIBUTOR?
      Intoximeters, Inc.
      8110 Lackland Road
      St. Louis, MO 63114
      Telephone: 314-429-4000
      Fax: 314-429-4170
      Contact: Customer Service

2. DO YOU MANUFACTURE A 0.08 g/210L DRY GAS STANDARD?
Yes.

3. IS YOUR DRY GAS STANDARD TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST)?
Yes.

   a. IS THIS TRACEABILITY DOCUMENTED FOR THE USER?
   Yes.

4. DO YOU PROVIDE A CERTIFICATE OF ANALYSIS FOR EACH LOT OF DRY GAS STANDARD PRODUCED?
Yes.

   a. DO YOU PROVIDE A CERTIFICATE OF ANALYSIS FOR THE LOT WITH EACH BOTTLE OF DRY GAS STANDARD?
   Yes.

5. ARE YOU CAPABLE OF PRODUCING A MINIMUM OF 300 CYLINDERS OF DRY GAS STANDARD WITHIN A THIRTY DAY PERIOD?
Yes.

   a. WHAT IS THE APPROXIMATE MAXIMUM AMOUNT OF DRY GAS STANDARD THAT CAN BE MANUFACTURERED IN A THIRTY DAY PERIOD?
   Current production capacity is approximately 1200 units per month, with additional capacity available if needed.

   b. WHAT IS THE APPROXIMATE MAXIMUM AMOUNT OF DRY GAS STANDARD THAT CAN BE MANUFACTURED IN A 24 HOUR PERIOD?
   Current capacity allows for up to 120 units of production in one day.

6. DO YOU HAVE DOCUMENTATION THAT DEMONSTRATES YOUR PRODUCT IS RELIABLE FOR AT LEAST TWO YEARS FROM THE DATE OF MANUFACTURE?
Yes

7. DOES YOUR DRY GAS STANDARD HAVE AN EXPIRATION DATE?
Yes
   a. IS THIS EXPIRATION DATE LISTED ON THE CYLINDER OF DRY GAS STANDARD?
   Yes

   b. IS THIS EXPIRATION DATE LISTED ON THE CERTIFICATE OF ANALYSIS FOR THE LOT OF DRY GAS STANDARD?
   Yes

8. DOES YOUR DRY GAS STANDARD CONSIST OF A MIXTURE OF ALCOHOL AND GAS WHICH PRODUCES A KNOWN ALCOHOL VAPOR CONCENTRATION?
Yes

   a. WHAT IS THE NAME OF THE GAS (BALANCE GAS) THAT THE ALCOHOL IS MIXED WITH?
   Nitrogen

9. REQUIRED DOCUMENTATION TO BE PROVIDED:
   a. A COPY OF A SAMPLE CERTIFICATE OF ANALYSIS THAT IS USED WITH YOUR DRY GAS STANDARD.
   ✓**See enclosed sample.**

   b. A COPY OF A SAMPLE LABEL FROM A BOTTLE OF THE DRY GAS STANDARD.
   ✓**See enclosed sample.**

   c. A COPY OF YOUR PRODUCT RELIABILITY REPORT:
      i. INCLUDE INFORMATION FROM AT LEAST TEN (10) DIFFERENT LOTS AND ENSURE AT LEAST TWO OF THESE LOTS ARE FOR A 0.08 g/210l DRY GAS STANDARD.
      Can be provided at time of visit.

   d. DOCUMENTATION SUPPORTING THE TRACEABILITY OF YOUR DRY GAS STANDARD TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (FOR EXAMPLE, YOUR CERTIFICATE OF ANALYSIS, A COPY OF YOUR ANALYTICAL PROCEDURE, OR OTHER DOCUMENTATION THAT SUPPORTS THIS).
   ✓**Can be provided at time of visit.**

   e. A COPY OF A SPECIFICATIONS SHEET FOR YOUR PRODUCT, IF AVAILABLE.
   Can be provided at time of visit.

   f. A COPY OF A SAMPLE WORK ORDER, IF AVAILABLE.
   ✓**Can be provided at time of visit.**

<u>THE MANUFACTURING PROCESS</u>

10. BRIEFLY DESCRIBE HOW YOUR DRY GAS STANDARD IS MANUFACTURED. INCLUDE ANY QUALITY ASSURANCE AND QUALITY CONTROL PROCESSES THAT ARE IMPLEMENTED IN THIS MANUFACTURING PROCESS.
Can be provided at time of visit.

   ✓a. IF YOU PREPARE A MASTER CYLINDER:
      i. WHAT IS THE APPROXIMATE SIZE OF THE MASTER CYLINDER?
      300 cubic feet.

ii. IS THIS MASTER CYLINDER CONDITIONED OR CLEANSED PRIOR TO USE?
Yes

iii. DO YOU ENSURE THE MASTER CYLINDER IS EMPTY PRIOR TO FILLING?
Yes

iv. HOW IS THE MASTER CYLINDER FILLED?
Gravimetrically

v. WHAT IS THE PURITY OF THE ETHANOL AND BALANCE GAS USED FOR PREPARING THE MASTER CYLINDER?
200 proof (99.98%) Ethanol, and 99.999% nitrogen.

vi. DO YOU BEGIN WITH LIQUID ETHANOL AND LIQUID BALANCE GAS AND CONVERT THEM TO GASES WHILE BLENDING THE MASTER CYLINDER?
Ethanol/yes, nitrogen/no

vii. IS THERE A NAME FOR THE MASTER CYLINDER FILLING PROCESS?
Filling mother cylinder

viii. IS THERE A 'REAL TIME' ANALYSIS OF THE GAS MIXTURE AS THE MASTER CYLINDER IS BEING FILLED?
No

ix. HOW MANY MASTER CYLINDERS CAN BE FILLED AT ONE TIME?
11

x. IS THERE A WAITING PERIOD AFTER FILLING THE MASTER CYLINDER PRIOR TO CONINUING WITH THE MANUFACTURING PROCESS?
Yes
IF SO, HOW LONG IS THIS WAIT PERIOD?
After analytical qualification

xi. IS THE MASTER CYLINDER ANALYZED FOR CONCENTRATION AND PRESENCE OF CONTAMINANTS? IF SO, WHAT ANALYTICAL METHOD IS USED AND ARE NIST TRACEABLE STANDARDS USED DURING THIS ANALYSIS?
Yes, Infra Red. Yes, equipment is calibrated to NIST STDS

b. IN THE PREPARATION OF THE INDIVIDUAL DRY GAS CYLINDERS (OR LOT OF DRY GAS STANDARD CYLINDERS):
   i. DO YOU CONDITION OR CLEANSE THE CYLINDERS PRIOR TO USE?
   Yes

ii. DO YOU ENSURE THE CYLINDER IS EMPTY PRIOR TO FILLING?
Yes

iii. HOW MANY CYLINDERS CAN BE FILLED DURING THIS PROCESS?
30

iv. WHAT IS THE MAXIMUM NUMBER OF DRY GAS STANDARD CYLINDERS THE MAKE UP A LOT?
A typical maximum lot size is 30 cylinders.

v. IS THERE A WAITING PERIOD AFTER THE FILLING OF THE DRY GAS STANDARD BOTTLES?
Yes
IF SO, HOW LONG IS THIS WAIT PERIOD?
After analytical qualification

vi. IS EACH BOTTLE OF DRY GAS STANDARD FROM THE LOT ANALYZED FOR CONCENTRATION AND CONTAMINATION?
Yes, concentration is analyzed. No analysis for contamination
IF SO, WHAT ANALYTICAL METHOD IS USED AND ARE NIST TRACEABLE STANDARDS USED DURING THIS ANALYSIS?
Infra Red is used in conjunction with NIST traceable standards.

vii. DO YOU MAINTAIN ANY CYLINDER(S) FROM A LOT FOR STABILITY AND/OR SHELF LIFE TESTING?
Yes

THE DRY GAS STANDARD PRODUCT

11. WHAT DO YOU CALL YOUR PRODUCT?
Ethanol breath standard

12. WHAT ARE THE SIZES AND TYPES OF DRY GAS STANDARD CYLINDERS YOU CAN PRODUCE (FOR EXAMPLE, 105 LITER, 28 LITER, 108 LITER; ALUMINUM OR STEEL CYLINDERS)?
Standard packages are 108-litre and 30-liter aluminum cylinders

13. IS THERE ANY SPECIAL STORAGE OR HANDLING CONSIDERATIONS?
Keep away from extreme heat

a. WHAT WILL HAPPEN IF THE PRODUCT IS STORED IN EXTREME HOT TEMPERATURES?
If exposed to Fire or heat exceeding 350° F a safety valve will release gas, and cylinder should be condemned. See warning label for full precautions.

b. WHAT WILL HAPPEN IF THE PRODUCT IS STORED IN EXTREME COLD TEMPERATURES?
Depending on temperature, pressure and concentration, it is possible that the ethanol may condense. Cylinders should be warmed up to a temperature above the dew point of the concentration prior to use.

c. WHAT ARE THE SHIPPING REQUIREMENTS?
Follow DOT regulations

14. HOW ARE LOT NUMBERS ASSIGNED?
According to our SOPs. To be discussed upon visit.

a. IS THERE ANYTHING UNIQUE ABOUT THE LOT NUMBER THAT CAN BE USED TO IDENTIFY A MANUFACTURE DATE, AN EXPIRATION DATE OR SOMETHING REGARDING THE MANUFACTURING PROCESS?
Yes

15. IS THERE ANY QUALITY ASSURANCE OR QUALITY CONTROL REVIEW IMPLEMENTED IN THE LABELING OF THE CYLINDERS FOR A LOT OF DRY GAS STANDARD?
Yes

16. IS THERE ANY QUALITY ASSURANCE OR QUALITY CONTROL REVIEW IMPLEMENTED IN THE CREATION OF THE CERTIFICATE OF ANALYSIS FOR A LOT OF DRY GAS STANDARD?
Yes

17. IS YOUR DRY GAS STANDARD MANUFACTURED AT MORE THAN ONE FACILITY? IF SO, PLEASE IDENTIFY ALL LOCATIONS WHERE DRY GAS STANDARD IS MANUFACTURED.
No

18. HOW ARE THE DRY GAS STANDARDS ORDERED AND SHIPPED?

a. DO CUSTOMERS PLACE ORDERS WITH THE MANUFACTURER OR THROUGH A DISTRIBUTOR?
Ethanol standards are sold only through a qualified OEM distributor.

b. IS THE DRY GAS STANDARD SHIPPED FROM THE MANUFACTURER OR THE DISTRIBUTOR?
Shipments are typically made by the distributor.

c. HOW DO YOU SHIP YOUR DRY GAS STANDARD?
Transportation is based on customer needs. Shipments can be made by air or land transportation.

COST

19. WHAT IS THE *APPROXIMATE* COST OF A BOTTLE OF 0.08 g/210L DRY GAS STANDARD?
$94.00 each.

20. DOES THIS PRICE INCLUDE SHIPPING? IF NOT, WHAT IS THE *APPROXIMATE* ADDITIONAL COST OF SHIPPING THE PRODUCT?
Yes, the price includes shipping. The Dry Gas tanks will ship FOB Destination.

21. WHAT METHOD(S) OF PAYMENT IS ACCEPTED?
Net 30 days.
a. WHO RECEIVES PAYMENT, THE MANUFACTURER OR THE DISTRIBUTOR?
The sale and payment are made by way of the Distributor.

OTHER HELPFUL INFORMATION

22. DO YOU SUPPLY DRY GAS STANDARD TO ANY OTHER STATE(S) THAT USES EVIDENTIARY BREATH TEST INSTRUMENTATION FOR BREATH ALCOHOL ANALYSIS?
Yes
a. IF SO, PLEASE LIST THESE STATES AND THE BREATH TEST INSTRUMENT(S) USED.
Wisconsn – Intox EC/IR II
North Carolina – Intox EC/IR II
Alabama – Drager 7110
Tennessee – Intox EC/IR II
California DOJ – Drager EPAS
Others upon request

23. IS IT POSSIBLE FOR YOU TO PREPARE DRY GAS STANDARDS FOR THE FOLLOWING:
Yes all of the following concentrations listed in "a." through "e." can be made.
a. 0.00 g/210L (BALANCE GAS ONLY)?
b. 0.04 g/210L ETHANOL?
c. 0.10 g/210L ETHANOL?
d. 0.30 g/210L ETHANOL?
e. 0.00 g/210L ETHANOL AND/OR 0.08 g/210L ETHANOL + 0.03 g/210L ACETONE?

24. IF POSSIBLE, PLEASE PROVIDE AN *APPROXIMATE* COST FOR THE DRY GAS STANDARDS LISTED IN QUESTION 23 (A THROUGH E).
Cost for special concentrations is dependent on size of cylinder and quantities of each concentration to be purchased at one time.

COMPRESSED GAS, N.O.S.
(ETHANOL, NITROGEN)
2.2 UN 1956

CAUTION: HIGH PRESSURE GAS. CAN CAUSE RAPID SUFFOCATION
Store and use with adequate ventilation. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Use in accordance with the

Material Safety Data Sheet (MSDS). FIRST AID: IF INHALED,
remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. DO NOT REMOVE THIS PRODUCT LABEL.

ALTITUDE	VALUE	ALTITUDE	VALUE	ALTITUDE	VALUE
0	0.080	2750	0.072	5500	0.065
250	0.079	3000	0.072	5750	0.065
500	0.079	3250	0.071	6000	0.064
750	0.078	3500	0.070	6250	0.064
1000	0.077	3750	0.070	6500	0.063
1250	0.076	4000	0.069	6750	0.062
1500	0.076	4250	0.069	7000	0.062
1750	0.075	4500	0.068	7250	0.061
2000	0.074	4750	0.067	7500	0.061
2250	0.074	5000	0.067	7750	0.060
2500	0.073	5250	0.066	8000	0.059

0.080 BrAC at Sea level. If your Intoximeters tank is moved from one location to another and there is MORE THAN A 250 FOOT ELEVATION CHANGE, first determine the new elevation from the left column. Then move across the line to the right hand column to determine the new value of your Intoximeters tank.

Airgas.

Intoximeters

108 Liter

Ethanol Breath Standard C
(Ethanol, Balance Nitrogen)

Ethanol content equivalent to **0.080 ± 2% BrAC (218 ppm)**

at sea level (pressure of 760 mm of Hg) when used with Intoximeters products.

See altitude chart, or use a TRUE-CAL for conversion

Certification: Traceable to N.I.S.T. NTRM Ethanol Standards

CONTENTS: 108 LITERS @ 1200 psig 70 F°

For ordering information, Contact:

Intoximeters
8110 Lackland
St. Louis, MO 63114
PH: (314) 429-4000 FAX: (314) 429-4170

DEV CODE: UCSQ7H

Expiration Date: 29 Jan 2011

Part No. 22-0785-00 Lot No. AG902901 Tank No. 01

Airgas

Airgas Mid America
3500 Bernard Street
St. Louis, MO 63103
(314) 533-0100 Fax (314) 533-7328
www.airgas.com

Certificate of Analysis

Intoximeters 29-Jan-09

Dear Sir,

This is your Certificate of Analysis:

Exp. Date	Cyl. Type	Component	Certified Composition
29-Jan-11	108	Ethanol	0.080 +/-2% BrAC (218 ppm)
		Nitrogen	Balance

Lot # AG902901

Certification Traceable to N.I.S.T NTRM 971302 Expiration Date 10/2/2011.

Analytical Method
IR

Approved By:

Barfield, Laura

From: Mark Gilmer [mark@intox.com]
Sent: Monday, April 13, 2009 11:46 AM
To: Barfield, Laura
Subject: FW: Dry Gas Standard Source Approval Questionaire
Attachments: intoxtimetanksfla.xls; intoxworkorderfla.pdf

From: Randy Renner [mailto:randy.renner@airgas.com]
Sent: 2009-04-10 10:58
To: Mark Gilmer
Subject: RE: Dry Gas Standard Source Approval Questionaire

Mark,

The two files above have the sample work order requested, along with three separate time study or reliability studies.

The product specification are as follows:

Nitrogen UHP 99.999%
Ethanol 200 proof 99.5%
All concentrations are traceable to NIST RGM or NTRM.
All concentrations are certified to +/-2% of named value.

Randy Renner
Quality Manager
Airgas Mid America
314-533-3100 x-164

From: Mark Gilmer [mailto:mark@intox.com]
Sent: Friday, April 10, 2009 9:36 AM
To: Randy Renner
Subject: Fw: Dry Gas Standard Source Approval Questionaire
Importance: High

Randy, do u have these reports you can fax asap

Sent via BlackBerry by AT&T

From: "Barfield, Laura"
Date: Tue, 7 Apr 2009 11:16:43 -0400

To: 'mark@intox.com'<mark@intox.com>
Subject: FW: Dry Gas Standard Source Approval Questionaire

Mark,

I will not be able to make a site visit prior to approval as a source (if qualifications are met).

In the attached questionnaire, it is indicated that the following will be provided at time of visit:

1. Product Reliability Report
2. Product Specifications Sheet, if available
3. Sample Work Order

Is there any way that you can have these items faxed to me as soon as possible? My fax number is (850) 921-3787.

Thanks,

Laura

From: Debbie Mandell [mailto:debbie@intox.com]
Sent: Thursday, April 02, 2009 12:37 PM
To: Barfield, Laura
Cc: Greg Scott; Chris Dalton; Rankine Forrester; Mark Gilmer; John Evans; Byron Greenwood; Cathy Orzel
Subject: Dry Gas Standard Source Approval Questionaire

Dear Laura:

In care of Mark Gilmer, I am forwarding the completed Dry Gas Standard Source Approval Questionaire as you requested. In addition to the questionaire, attached is a copy of a tank label and Certificate of analysis for your review.

Thank you for allowing Intoximeters Inc. this opportunity. We look forward to hearing from you soon.

If you have any questions or need additional information, you may contact Mark Gilmer at 314-583-9539 or you may contact me directly at the phone number or email address listed below.

Sincerely,

Debbie Mandell
Inside Sales Manager
Intoximeters, Inc.
8110 Lackland Rd.
St. Louis, MO 63114
debbie@intox.com
800.451.8639

Lot #	Cylinder #	Fill Date	exp Date	months old	Value	Value 10/1/08
ag631003	1	11/6/2006	11/5/2008	23	52.4	51.45
ag812602	7	5/5/2008	5/5/2010	5	52	51.53
ag605101	3	2/20/2006	2/20/2008	32	215.2	216.1
ag631801	12	11/14/2006	11/13/2008	23	208.8	206.52
ag705901	3	2/28/2007	2/27/2009	20	103.7	103.1
ag716303	1	6/12/2007	6/11/2009	16	54.6	53.33
ag716303	12	6/12/2007	6/11/2009	16	54.4	53.96
ag822502	8	8/12/2008	8/12/2010	2	103.64	103.21
ag824802	5	9/4/2008	9/4/2010	1	92	91.49

Work Order Details

Work Order No.	40-111642198-8_1
Part No.	X02NI99CCA2CBG4
Part Description	CT 52PPM ETHANOL, BALANCE NITROGEN SIZE 108DAL, CERTIFIED STANDARD-SPEC CGA C10, (BAC .020 UNCORRECTED), (FOR BREATH ALCOHOL), (STANDARDS FOR INTOXIMETERS), (FILLED IN ST LOUIS), CUSTOM MIX
UN Number	UN1956
Order Date	03/31/2009
Due Date (RTS)	04/14/2009
Quantity	16
Size	108DAL
CGA	C10
PRD	
Final Pressure	1200 PSIG
Final Volume	4 Cubic Ft.

EaseSoft Copyright

Notes

P.O[03/31/2009]:Freight paid by Airgas

RT 5/D

Step	Prod. Code	Description	Lead Time
Fill	84	Disp. Fill - other	4
Lab1	41	GC - FID	5
RTS	1	Label, cert, DOT check	1

Fill Data

Component	Requested Component Concentration (%)	Required Component Weight (g)	Actual Component Weight (g)	Calculated Component Concentration
ETHANOL	52.0000	0.0000		
NITROGEN	99.9948	0.0000		

Pre-Fill Ins	☐	Leak Check	☐	Mix rolled	☐
Label Check	☐	LEL Check	☐	Lot No	☐

Component	Pressure at 60 F	Pressure at 70 F	Pressure at 80 F	Pressure at 90 F	Pressure at 100 F	Pressure at 110 F
ETHANOL	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NITROGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Analytical Results

Component	Material Lot Number	Analytical Method	Analytical Standard
ETHANOL			
NITROGEN			

Cylinder Number:

Lab1 Results

Date	1	2	3	4	5	6	7	8	std
20-Oct	274.83	275.1	274	275.26	274.6	275.6	259.6	274.6	273.78
21-Oct	274.93	275.5		274.86	274.53	275.76	258.96		
22-Oct	274.3		271.1	274				273.95	274.1
23-Oct	274.3	273.9	270.6	274.2	272.8	273.5	259.3	273.6	275.2
24-Oct	274.86		269.6		273.78				
27-Oct	275.1	275.7	270.1	274.1	273.5	275.1	259.4	273.7	275
3-Nov	275	275.1	270.4	274.5	273.9	275.3	259.2	274	274.5
10-Nov	275	274.9	270.7	274.3	273.1	274.7	258.3	274	274.4
17-Nov	275.9	276.2	271.9	275.4	273.8	275.5	258.8	273.8	274.6
24-Nov	274.8	274.6	270.9	273.5	272.1	273.6	257.6	273.6	275.3
1-Dec				274.6	272.4	274	258	273.5	274.6
8-Dec				274.4	272.8	274.4	258.4	273.7	274.9
15-Dec				274.2	272.3	273.9	257.9	273.1	274.5
29-Dec				274.1	272.7	274.2	258	273.3	274.9
5-Jan				274.7	273.4	274.7	258.3	274.1	274.6
19-Jan				273.9	272.3	274.2	257.8	273.2	275.5
9-Feb				274.1	272.6	274.6	258.3	273.3	275
23-Feb				274.9	273.1	275.3	259.2	273.5	275.6
9-Mar				274.5	272.3	274.4	258.1	273	274.9
	274.902	**275.125**	**271.0333**	**274.3825**	**273.1631**	**274.604**	**258.524**	**273.6967**	**274.7871**

Spray

Date	1	2	3	4	5	6	7	8	std
3-Nov	272.3	260	273.1	274.9	274.4	260.5	268.8	274.4	275
10-Nov	273.8	256.7	274.7	275.3	276	261.9	268.5	273.5	274.4
17-Nov	273.6	258.8	274.2	274.7	274.7	261.1	267.8	274.8	274.6
24-Nov	273.3	259	273.7	274.6	274.5	260.7	267.9	274.7	275.3
1-Dec	273.1	258.9	274.1	274.5	274.9	261	267.9	275.3	274.6
8-Dec	273.3	258.7	274.4	274.7	274.7	261.1	268	275.6	274.9
15-Dec	273.5	258.7	274.6	274.9	274.9	261.1	268.1	275.1	274.5
29-Dec	273.4	259.1	274.1	274.9	274.8	260.8	267.9	275.4	274.9
5-Jan	273.6	258.9	274.4	274.3	274.6	260.5	267.8	275.2	274.6
19-Jan	273.9	259.5	274.4	275	275.5	261.2	268.5	275.8	275.5
9-Feb	274	259.2	274.8		275.5	261.3	268.2	275.5	275
23-Feb	273.2	259.1	274.5		275.2	261.1	268.3	276	275.6
9-Mar	274	259.6	274.8		275.1	261.2	268.3	275.9	274.9
	273.4615	**258.9385**	**274.2923**	**274.78**	**274.9846**	**261.0385**	**268.1538**	**275.1692**	**274.9077**

Barfield, Laura

From: Mark Gilmer [mark@intox.com]
Sent: Wednesday, April 29, 2009 11:13 AM
To: Barfield, Laura
Subject: RE: Dry Gas Standard Source Approval Questionaire

The information sent you, does that work? I'm getting all my information from Airgas and assuming it is what you're looking for.

From: Barfield, Laura [mailto:LauraBarfield@fdle.state.fl.us]
Sent: 2009-04-07 10:17
To: Mark Gilmer
Subject: FW: Dry Gas Standard Source Approval Questionaire
Importance: High

Mark,
I will not be able to make a site visit prior to approval as a source (if qualifications are met).
In the attached questionnaire, it is indicated that the following will be provided at time of visit:

1. Product Reliability Report
2. Product Specifications Sheet, if available
3. Sample Work Order

Is there any way that you can have these items faxed to me as soon as possible? My fax number is (850) 921-3787.
Thanks,
Laura

From: Debbie Mandell [mailto:debbie@intox.com]
Sent: Thursday, April 02, 2009 12:37 PM
To: Barfield, Laura
Cc: Greg Scott; Chris Dalton; Rankine Forrester; Mark Gilmer; John Evans; Byron Greenwood; Cathy Orzel
Subject: Dry Gas Standard Source Approval Questionaire

Dear Laura:
In care of Mark Gilmer, I am forwarding the completed Dry Gas Standard Source Approval Questionaire as you requested. In addition to the questionaire, attached is a copy of a tank label and Certificate of analysis for your review.
Thank you for allowing Intoximeters Inc. this opportunity. We look forward to hearing from you soon.
If you have any questions or need additional information, you may contact Mark Gilmer at 314-583-9539 or you may contact me directly at the phone number or email address listed below.
Sincerely,
Debbie Mandell
Inside Sales Manager
Intoximeters, Inc.

8110 Lackland Rd.
St. Louis, MO 63114
debbie@intox.com
800.451.8639

	Lot #	Cylinder #	Fill Date	exp Date	months old	Value	10/1/08	6/3/2009	6/4/09	8/11/09	8/17/09
	ag831003	1	11/6/2006	11/5/2008	33	52.4	51.45				51.4
	ag812602	7	5/5/2008	5/5/2010	5	52	51.53				
	ag805101	3	2/20/2006	2/20/2008	32	215.2	216.1				
	ag631801	12	11/14/2006	11/13/2008	33	206.8	206.52				205.2
	ag705901	3	2/28/2007	2/27/2009	30	103.7	103.1				103.6
	ag716303	1	6/12/2007	6/11/2009	16	54.6	53.33				
	ag716303	12	6/12/2007	6/11/2009	16	54.4	53.96				
	ag822502	8	8/12/2008	8/12/2010	2	103.64	103.21				
	ag824802	5	9/4/2008	9/4/2010	1	92	91.49				
	ag720402	6	7/23/2007	7/22/2009	23	104.7		102.5			
	ag719002	20	7/9/2007	7/8/2009	23	223.7		223.6			
	ag613501	4	5/15/2006	5/15/2008	37	272.1		266.1			
	ag715102	21	5/31/2007	5/30/2009	37	104.6		102.6			
	ag715102	16	5/31/2007	5/30/2009	37	105		103.03			
	ag730404	4	10/31/2007	10/30/2009	22	103.7		102.8			103
	ag803202	4	2/1/2006	2/1/2008	41	223			220.1		
30 liter	ag710902	1	4/19/2007	12/16/2008	28	274.6				271.2	
30 liter	ag710902	2	4/19/2007	12/16/2008	28	275.3				271.7	
	ag731201	15	11/8/2007	11/8/2009	21	104				101.9	

			test date										
Lot No.	Pass Date	Value	1/30/2009	2/26/2009	3/24/2009	4/15/2009	5/14/2009	6/4/2009	6/16/2009	7/16/2009	8/17/2009		
ag830902-13	10/31/2008	96.8	95.6	95.9			95.4				94.9		
ag831001-30	10/31/2008	102.5	101.9	102				101.7					
ag831101-16	10/31/2008	228.4	227.9	227.6		227.3				226.6			
ag833401-1	10/31/2008	247.0	245.3	245.7	244.6			245.5					
ag833803-11	11/14/2008	262.7	262.9	261.9	261.6		260.3			260.5			
ag900501-5	12/12/2008	44.9	45.4	45	44.95					44.9			
ag901401-15	11/21/2008	225.9		227.3		226.4		225.8			226		
ag902901-20	1/16/2009	223.1		223.9	223.3		222.9	222.7			221.8		
ag903603-21	1/30/2009	218.4				217.9				217.1			
ag904204-11	2/6/2009	273.8				274.4							
ag904902-8	2/13/2009	213.9					213.1						
ag905702-1	2/20/2009	102.6							105.4				
ag906301-22 dml	2/20/2009	219.4								220.2			
ag906802-24	2/27/2009	288.2			288.3						287.3		
ag908201-9	3/6/2009	102.2					103.8						
ag908904-18	3/13/2009	235.5							234.1				
ag909601-1	3/20/2009	102.7								104.8			
ag910301-24	3/27/2009	102.6									103.3		
ag910402-11	4/3/2009	222.6					223.3				223.5		
ag911001	4/17/2009	271.8							271.8				
ag911801-3	4/24/2009	99.9								99.7			
ag912601-15	5/1/2009	222.7							223				
ag913301-15	5/8/2009	257.0								256.1			
ag914702-11	5/15/2009	102.4									103.9		
ag916001-6	5/22/2009	222.9											
ag916101-3	6/5/2009	215.2								214.7			
ag916602-8	6/12/2009	222.9									222.7		
ag916901-2	5/22/2009	274.6											
ag918202-13	6/19/2009	106.1											
ag918802-9	6/26/2009	102.3											
ag919502-14	7/2/2009	222.7									224.3		
ag920301-12	7/10/2009	217.5											
ag920903-21	7/24/2009	201.2											
ag921501-10	7/24/2009	102.3											
ag921702-13	7/31/2009	222.5											

Product: Ethanol Mixtures

Regulatory Compliance and Safety Data

Shipping Name:	Ethanol Mixture	**Chemical Desc.**	
UN Number:	UN 1956	**Molecular Weight:**	
Hazard Class:	2.2 (Non-Flam. Gas)	**Filling Density:**	100%
CGA Connection:	C10	**P.R.D.:**	CG-4

Product Specifications

Mixture Component Gases

Components	% etoh	QC level
.038 bac	+/- 2%	3
.082 bac	+/- 2%	3
.10 bac	+/-2%	3
.040 bac	+/-2%	3
.020 bac	+/-2%	3
Misc: bac	+/-2%	3

Cylinder Volume

Cylinder Size	DOT Spec.	Fill Pressure @ 70	Volume
108	3AL1200	1200	108 liters
30	DOT39NRC	500	30 liters

Notes

Qc Level 3 – All cylinders individually analyzed.

Ethanol purity 99.98% minimum
Nitrogen purity 99.999% minimum

Certification traceable to NIST traceable standards