Office of Attorney General
STATE CRIME LABORATORY

CHEMICAL TEST OPERATOR TRAINING
Intoxilyzer® 8000

Fall 2014 – Spring 2015
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The Intoxilyzer® 8000 is a mobile breath alcohol instrument manufactured by CMI, Inc. in Owensboro, Kentucky, which uses infrared spectroscopy as its method of analysis. For comparison, the Preliminary Breath Testers (PBT’s) used in North Dakota, the Intoxilyzer® S-D5 and Intoximeters Alco-Sensor FST®, use an electrochemical fuel cell for analysis.

The Intoxilyzer® 8000 is currently the only evidential breath alcohol instrument approved for use in North Dakota by the ND Crime Laboratory. The picture above shows a general setup of the Intoxilyzer® 8000 with an external printer.
INTOXILYZER® 8000 PARTS

Operators should be familiar with key instrument components:

1. Breath Hose
2. Start Test Button
3. Internal Printer Compartment
4. Ethanol Gas Standard Connection
5. 2D Card Reader
6. Printer Connector (USB)
7. Modem Connector
8. AC Power Switch
9. Battery Power Switch
10. Power Cord
11. Lock box with Ethanol Gas Standard inside

**NOTE:** Both the main power switch AND the battery power switch need to be turned on when in use. When the instrument will no longer be used for a period of time (i.e. building remodel) or it needs to be transported to the Crime Laboratory, BOTH the main power and battery power switches need to be turned off. This prevents internal circuit damage due to unintentional discharge of the external battery.

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**INTOXILYZER® 8000 INSTALLATION**

The Intoxilyzer® 8000 must be installed by a certified Field Inspector prior to running any tests at an agency or for sobriety checkpoints. If the instrument is moved to a different location a Field Inspector needs to re-install it. Field Inspectors require more training than the Initial Intoxilyzer® 8000 class allows.
Once properly installed, the Intoxilyzer® 8000 will display Ready Mode. Below is a list of other operational modes one may see on the display.

OPERATIONAL MODES

1. **Not Ready Mode**: The Intoxilyzer® 8000 is not ready for a test. It enters Not Ready Mode when the power switch and the battery power switch are first turned on. The instrument will take approximately 20 minutes to warm up with the last 5 minutes of the warm up period displayed as a countdown.

2. **Ready Mode**: The Intoxilyzer® 8000 is ready to run a subject test. Ready Mode will be displayed after the initial warm up period.

3. **Standby Mode**: If the Intoxilyzer® 8000 is not used for about 30 minutes it will suspend operation to save power and go into Standby Mode. An operator cannot run a test in this mode. To return to Ready Mode, press the green Start Test button. Ready Mode will display after a one minute countdown shown on the display.

4. **Disabled Mode**: The Intoxilyzer® 8000 has been disabled by the Crime Laboratory and cannot be used to conduct breath alcohol tests.

TESTS

It is the officer’s decision which chemical test to give a subject for alcohol testing; whether the test is a breath, blood, or urine test. If a breath alcohol test is chosen, there are two different test sequences the Intoxilyzer® 8000 operator can give a subject depending on the situation:

1. Custom Mode Sequence (CMS, two-breath test),
2. Single Breath Sequence (ABA)

**Custom Mode Sequence (CMS)**

This is the evidential two-breath test the majority of operators will be using. The Custom Mode Sequence (CMS) is a North Dakota customized sequence of steps which meet both the recommendations of the National Safety Council for evidentiary breath alcohol testing and the requirements for the Crime Laboratory’s *Approved Method to Conduct Breath Tests with the Intoxilyzer® 8000*. 
A CMS test must be run, and the approved method followed, when under arrest for Driving Under the Influence (DUI), Actual Physical Control (APC), Snowmobiling Under the Influence (SUI), Off Highway Vehicle (OHV), Minor Zero Tolerance (MZT), Hunting Under the Influence (HUI), and Boating Under the Influence (BUI).

A valid breath alcohol test in Custom Mode Sequence must contain all of the following steps and in the following order:

1. Diagnostic
2. Room Air
3. Subject Test
4. Room Air
5. Standard Gas
6. Room Air
7. Subject Test
8. Room Air

A more in depth explanation of each step will be discussed in the following section.

Begin CMS Test:

The officer chose to give the subject a breath alcohol test instead of a blood or urine test and the Intoxilyzer® 8000 was installed by a Field Inspector sometime prior to testing. When arriving at the instrument’s location the certified Intoxilyzer® 8000 operator will notice the display reads either:

[Image of Intoxilyzer® 8000 displaying “Standby Mode Push Button to Start”]

The instrument is NOT ready for a test. Press the Start Test button for the one minute countdown to warm up the instrument.

Or,

[Image of Intoxilyzer® 8000 displaying “Ready Mode Ready to Start”]

Ready Mode will display after a diagnostic test is complete.

Remember: Press the Start Test button if the instrument is in Standby Mode. Operators call in to the lab stating that the instrument “froze up” when in fact the operator forgot to press the Start Test button first.
When in Ready Mode, press the Escape key twice (ignore “Enter Password:”) and then the Start Test button.

**Escape, Escape, Start Test button**

The display now reads:

> Please scan ID or press enter

The easiest way to scan the operator card is to place it across the top row of the keyboard and underneath the 2D card reader. If it doesn’t scan take it away and place it down again.

The operator also has the option to press the enter key to manually enter data.

**Scan operator ID card, verify information* displayed, and press Enter to accept data and move forward.**

*Operator information to enter and/or verify includes: Operator’s number, last name, and first name.

A common mistake is scanning the subject’s driver’s license instead of the operator’s own card. The instrument will not mistakenly scan a driver’s license, but instead will beep every time the license is placed under the card reader.
The operator should ascertain that the subject has had nothing to eat, drink, or smoke within 20 minutes prior to the collection of the breath sample. If 20 minutes has not been met, do not proceed until it has.

**Press Y and Enter.**

Currently, four copies are needed:
1. Operator file
2. Subject
3. Prosecutor
4. Certified copy with the Report and Notice to the Dept. of Transportation

**Enter the number of copies and press Enter.**

It is acceptable to print one copy, sign it, and make copies of the signed test record (instead of signing four copies). However, make sure your copier is printing legibly or there may be issues in court.

Scan the subject’s driver’s license the same way as the operator’s card.

The operator also has the option to press the enter key to manually enter data.

**Scan card, verify information* displayed, and press Enter to accept data and move forward.**

*Subject information to enter and/or verify includes: Subject’s last name, first name, middle name, date of birth, sex, and weight.

Test Reason choices include: DUI, HUI, MIC, OHV, OTH (other), SUI, WRK (work release), and BUI.

**Scroll through with the arrow keys. Choose the test reason by pressing Enter.**
The display reads as below. **Verify, correct data if needed, and press Enter.**

- **Citation #?**
  - If a citation number is not available enter “NA” or leave blank.

- **Drivers License #?**
  - **DI5921456**

- **DL State**
  - **ND**

- **County**
  - _

- **Review Data (Y/N)?**
  - **Y**

- **Diagnostic Voltage/Current Pass**

- **Room Air Rslt:0.000**

- **Reference**

Enter the two digit number for county of arrest.

If needed, the operator may enter “Y” to correct any data. Otherwise, press Enter to move forward.

If all criteria are met for the Diagnostic test, testing continues.

The instrument is purging the breath hose and sample chamber.

The instrument is determining a baseline.

The display reads “Please Blow Until Tone Stops”. The subject will have 3 minutes to provide an adequate breath sample.

**Attach a clean mouthpiece and instruct the subject to blow into the mouthpiece until the instrument displays the zero to the left of the decimal point (the tone will also stop).**

Discard used mouthpiece. Do not keep mouthpiece on the breath hose.
If a clean mouthpiece was used, **Press “Y” then Enter.** There will be a predetermined timed delay of ≈ 50 seconds.

The instrument is purging the breath hose and sample chamber. There will be another predetermined timed delay of ≈ 50 seconds.

The instrument is determining a baseline.

The gas standard is being analyzed and will display the result. The current Ethanol Gas Standard is 0.080 alcohol concentration (AC). **The acceptable range is 0.075 – 0.085 AC.**

The subject will have 3 minutes to provide an adequate breath sample.

**Do not reuse the first mouthpiece.**

**Attach a 2nd** clean mouthpiece and instruct the subject to blow into the mouthpiece until the instrument displays the zero to the left of the decimal point (the tone will also stop).
The difference between the first and second subject breath samples is calculated. The display should read either:

If a clean mouthpiece was used, **Press “Y” then Enter.**

The instrument is purging the breath hose and sample chamber for a final time.

The difference between the first and second subject breath samples is calculated. The display should read either:

“Difference OK” means that the difference between the two breath samples is equal to or less than 0.020 g/210 L (20 digits) of expired breath.

Or,

“Difference Too Great” means that the difference between the two breath samples is greater than 0.020 g/210 L (20 digits) of expired breath.

The instrument will begin to print the test record and the display returns to Ready Mode.

Sign all copies of the test record (Form 106-I8000).

If the instrument has not been used for a period of time (20-30 minutes), it will return to Standby Mode.
The following test records are examples of valid breath alcohol tests run in CMS.

**Two adequate breath samples:**

```
Intoxilyzer Test Record and Checklist
NDAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer  Alcohol Analyzer
North Dakota Model 8000   SN 80-005938
Location - BSDP 8164.13.00 06/09
07/10/2018 10:49

<table>
<thead>
<tr>
<th>Test</th>
<th>AC</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 Diagnostic</td>
<td>OK</td>
<td>10:50</td>
</tr>
<tr>
<td>02 Room Air</td>
<td>0.000</td>
<td>10:50</td>
</tr>
<tr>
<td>03 Subject Test 1</td>
<td>0.088</td>
<td>10:51</td>
</tr>
<tr>
<td>04 Room Air</td>
<td>0.000</td>
<td>10:53</td>
</tr>
<tr>
<td>05 Std. Gas</td>
<td>0.079</td>
<td>10:54</td>
</tr>
<tr>
<td>06 Room Air</td>
<td>0.000</td>
<td>10:55</td>
</tr>
<tr>
<td>07 Subject Test 2</td>
<td>0.087</td>
<td>10:56</td>
</tr>
<tr>
<td>08 Room Air</td>
<td>0.000</td>
<td>10:57</td>
</tr>
<tr>
<td>09 Reported AC</td>
<td>0.087</td>
<td>10:56</td>
</tr>
</tbody>
</table>

Difference OK
No RFI Detected

Sub Name = DISCOVER, THE SPIRIT
Sub DGB = 02/01/1992
Sub Sex = Female   Weight = 150
Test = DUI   Cit = NA
Dr. Lic. = ND/DIS921456
Lot No = 16#12080A2
Cyl No = 59
Expiration Date = 08/01/2018
County = 08   Oper No. = 777777

20 minute waiting period ascertained? Y
Clean Mouthpiece used and disposed? Y
Clean Mouthpiece used and disposed? Y

I followed the Approved Method and the instructions displayed by the Intoxilyzer in conducting this test.

[Signature]
Operator Signature
DRB KASHUR

Remarks:

Form 106-18000
```

Line 09, Reported AC, will report the lower of the two AC values and the time that sample was provided.
If the subject refuses to provide a breath sample for one of the two samples during a test, the one adequate breath sample shall be legally admissible.

One refusal and one adequate breath sample or vice versa:

<table>
<thead>
<tr>
<th>Test</th>
<th>AC</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 Diagnostic</td>
<td>OK</td>
<td>11:13</td>
</tr>
<tr>
<td>02 Room Air</td>
<td>0.000</td>
<td>11:13</td>
</tr>
<tr>
<td>03 *Subject Test</td>
<td>0.000*</td>
<td>11:16</td>
</tr>
<tr>
<td>04 Room Air</td>
<td>0.000</td>
<td>11:19</td>
</tr>
<tr>
<td>05 Std. Gas</td>
<td>0.078</td>
<td>11:20</td>
</tr>
<tr>
<td>06 Room Air</td>
<td>0.000</td>
<td>11:21</td>
</tr>
<tr>
<td>07 Subject Test 1</td>
<td>0.089</td>
<td>11:22</td>
</tr>
<tr>
<td>08 Room Air</td>
<td>0.000</td>
<td>11:23</td>
</tr>
<tr>
<td>09 Reported AC</td>
<td>0.089</td>
<td>11:22</td>
</tr>
</tbody>
</table>

NO RFI Detected

*Deficient Sample - Value Printed was Highest Obtained

Sub Name = DISCOVER, THE SPIRIT
Sub DOB = 02/01/1992
Sub Sex = Female       Weight = 150
Test = DUI             Cit = NA
Dr. Lic. = ND/15971456
Lot No = 16512080A2
Cyl No = 59
Expiration Date = 08/01/2018
County = 08
Oper No. = 777777

20 minute waiting period ascertained? Y
Clean Mouthpiece used and disposed? Y
Clean Mouthpiece used and disposed? Y

I followed the Approved Method and the instructions displayed by the Intoxilyzer in conducting this test.

[Signature]
Operator Signature

Remarks:

Form 106-I8000

The subject refused to provide the first breath sample, but provided an adequate sample for the second breath, which will be the Reported AC on line 09.
One adequate sample and one refusal (with some ethanol present) or vice versa:

The subject provided an adequate sample for the first breath, but for the second breath the subject blew a little and showed ethanol is present, but quit blowing before an adequate sample could be accepted. Therefore, the reported AC will be the adequate sample of 0.090.
Single Breath Sequence (ABA)

ABA = Air Blank, Breath, Air Blank.

As the name implies, this is a single breath test run on a subject for testing other than DUI or other driving offenses. For example, this test may be used for MIC, Parole/Probation, Work Release, or a parent's request.

This test does NOT follow the Crime Laboratory's Approved Method to Conduct Breath Tests with the Intoxilyzer® 8000 and, therefore, is not allowed as an evidentiary test for driving offenses.

Begin ABA test:

Again, when the subject is brought to the Intoxilyzer® 8000 for testing, the display will read either:

The instrument is NOT ready for a test. Press the Start Test button for the one minute countdown to warm up the instrument.

Or,

Ready Mode will display after a diagnostic test is complete.

Indicates the instrument is ready for a test.
The operator needs to get into Level 1 in the Intoxilyzer® 8000. Do this by pressing the Escape key twice (ignore “Enter Password:”) and then press Enter.

Escape, Escape, Enter

Operators often mistakenly run tests in ABA mode when they wanted to run a two breath test in CMS. Remember, to enter CMS press Esc, Esc, Start Test button, not the Enter key.

This takes you to Level 1 with the following options:

B = Breath Test (ABA)
C = Calibration Check
P = Print Test
S = Configure Standard
Q = Quit

Press B then Enter to begin the test.
The display now reads:

The easiest way to scan the operator card is to place it across the top row of the keyboard and underneath the 2D card reader. If it doesn’t scan take it away and place it down again.

The operator also has the option to press the enter key to manually enter data.

**Scan operator ID card, verify information* displayed, and press Enter to accept data and move forward.**

*Operator information to enter and/or verify includes: Operator’s number, last name, and first name.

Currently, three copies are needed:

1. Operator file
2. Subject
3. Prosecutor

**Enter the number of copies and press Enter.**

Scan the subject’s driver’s license the same way as the operator’s card.

The operator also has the option to press the enter key to manually enter data.

**Scan card, verify information* displayed, and press Enter to accept data and move forward.**

*Subject information to enter and/or verify includes: Subject’s last name, first name, middle name, date of birth, sex, and weight.
Test Reason choices include: DUI, HUI, MIC, OHV, OTH (other), SUI, WRK (work release), and BUI.

Scroll through with the arrow keys. Choose the test reason and press Enter.

If a citation number is not available enter “NA” or leave blank.

Enter the two digit number for county of arrest.

If needed, the operator may enter “Y” to correct any data. Otherwise, press Enter to move forward.

The instrument is purging the breath hose and sample chamber.

The instrument is determining a baseline.

The subject will have 3 minutes to provide an adequate breath sample.

Attach a clean mouthpiece and instruct the subject to blow into the mouthpiece until the instrument displays the zero to the left of the decimal point (the tone will also stop).
The instrument is purging the breath hose and sample chamber for a final time.

The instrument will begin to print the test and again display Level 1.

Sign all copies of the test record (Form 106-I8000).

At this point the operator can press Q then Enter or let the instrument automatically go back to Ready Mode.
**ABA Test**

Intoxilyzer Test Record and Checklist  
NDOAG Crime Lab. Div., Bismarck, ND 58501

CML, Inc. Intoxilyzer  Alcohol Analyzer  
North Dakota Model 8000  SN 80-094938  
Location = BSPD  
07/31/2018  
16:49

<table>
<thead>
<tr>
<th>Test</th>
<th>AC</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 Room Air</td>
<td>0.000</td>
<td>16:50</td>
</tr>
<tr>
<td>02 Subject Test 1</td>
<td>0.124</td>
<td>16:51</td>
</tr>
<tr>
<td>03 Room Air</td>
<td>0.000</td>
<td>16:51</td>
</tr>
<tr>
<td>04 Reported AC</td>
<td>0.124</td>
<td>16:51</td>
</tr>
</tbody>
</table>

No RFI Detected

Sub Name = DISCOVER, THE SPIRIT  
Sub DOB = 02/01/1992  
Sub Sex = Female  
Weight = 150  
Test = KIC  
Cit = NA  
Dr. Lic. = ND/DIS021456  
Lot No = 165-2030A2  
Cyl No = 21  
Expiration Date = 08/01/2018  
County = 08  
Oper No. = 777777

Operator Signature  
DMB KASIMUR

Remarks:

Form 106-I8000
ADDITIONAL TESTS

At some time, certified Intoxilyzer® 8000 operators will need to run additional tests and/or enter important data into the instrument. The operator will get into Level 1 to run the following tests/checks when needed:

C = Calibration Check (ACA)
P = Print Test
S = Configure Standard
Q = Quit

Calibration Check (ACA)

ACA = Air Blank, Calibration Check, Air Blank.

The Ethanol Gas Standard serves as a control to check if the Intoxilyzer® 8000 is calibrated and functioning properly to analyze breath samples accurately at the time of breath testing. The standard is analyzed:

1. Between the first and second breath sample of each subject test in the Custom Mode Sequence.
2. Each time a gas cylinder is replaced due to the gas standard being expired or empty.
3. Each time the Intoxilyzer® 8000 is installed by a Field Inspector.

This section will concentrate on replacing the gas cylinder and running an ACA test.

Ethanol Gas Standard:

The Ethanol Gas Standard simulates the equivalent of 0.08% vapor-alcohol (0.08 g/100 mL of blood or 0.08 g/210 L of end expiratory breath).

Any certified chemical test operator can install a new Ethanol Gas Standard and run an ACA test when the cylinder is empty or expired. The Crime Laboratory cannot mail the gas cylinders so officers need to pick up a cylinder at the Lab (please call ahead).

The operator first needs to print a copy of the Ethanol Gas Standard Cylinder Report SFN59282 and the Intoxilyzer® 8000 Record SFN50496 found on the ND Attorney General website @ http://www.ag.nd.gov/CrimeLab/BreathAlcoholProgram/OperForms/OperForms.htm.

Follow the instructions on the form.
The gas standard information needs to be scanned or entered into the Intoxilyzer® 8000. Do this by pressing Escape, Escape, Enter to get into Level 1, then “S” to configure the standard.

Either press “S” then Enter or use the arrow key to move to “S” and press Enter.

D = Dry Cal Check, W = Wet Cal Check, I = Internal Cal Check

Choose “D” then Enter.

Either scan the cylinder barcode or manually enter cylinder information.

For the cylinder on the right:
Lot # = 16512080A2
Expiration Date = 8/1/2014
Cylinder # = 019

The updated cylinder data is being saved. Attach the gas cylinder to the gas regulator on the Intoxilyzer® 8000 and lock the compartment. Now run the ACA test.

Begin ACA Test:

If the instrument went back to Ready Mode, begin by pressing Escape, Escape, Enter. If the instrument is still in Level 1, proceed as follows:

Either press key C then Enter or use the arrow keys to move over to “C” on the display and then Enter.

Scan operator ID card, verify information displayed, and press Enter to accept data and move forward.

Enter the two digit county code.

The instrument will perform a Room Air, then a Reference.
The standard gas will be analyzed three consecutive times. Each sample should fall in the range of 0.075 - 0.085 AC. **Sign test record.** See test example below.

### ACA Test

<table>
<thead>
<tr>
<th>Test</th>
<th>AC</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 Room Air</td>
<td>0.000</td>
<td>10:20</td>
</tr>
<tr>
<td>02 Std. Gas</td>
<td>0.079</td>
<td>10:20</td>
</tr>
<tr>
<td>03 Room Air</td>
<td>0.000</td>
<td>10:21</td>
</tr>
<tr>
<td>04 Std. Gas</td>
<td>0.079</td>
<td>10:21</td>
</tr>
<tr>
<td>05 Room Air</td>
<td>0.000</td>
<td>10:22</td>
</tr>
<tr>
<td>06 Std. Gas</td>
<td>0.078</td>
<td>10:22</td>
</tr>
<tr>
<td>07 Room Air</td>
<td>0.000</td>
<td>10:23</td>
</tr>
</tbody>
</table>

Loc No = 18512080A2
Cyl No = 21
Exp Date = 08/01/2018
County = 68
Oper No. = 777777

Operator Signature

Deb Kashur

Remarks:

ACA Test

Form 106-16000
Print Test

P = Print Test

An operator may need to run a print test when trouble shooting external/internal printer issues. A print test is also the simplest and quickest test to determine if the operator running the test has their operator information uploaded into that Intoxilyzer® 8000 by the Crime Lab. If not, the instrument will should display “Invalid ID” and will not proceed further.

Begin Print Test:

Begin by pressing Escape, Escape, Enter to get into Level 1, then “P” to run a print test.

Scan operator ID card, verify information displayed, and press Enter to accept data and move forward.

See the following page for example of Print Test.
Print Test

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMR, Inc. Intoxilyzer
North Dakota Model 8000
SN 80-005938
Location = BPD
8164.13.00 06/09
07/29/2018 13:37

************ Printer Test ************

abcdefghijklmnopqrstuvwxyz1234567890-=|
ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890-=|

Current Instrument Setup
Data Entry Mode: Enabled
Start Test Sequence: DAHACABA
Display Prelim Rslt?: Yes
Display Third Digit?: Yes
Inhibit Printer (Y/N)?: No
Display Volume?: No
Disable On Memfull?: Yes
# of Print Copies?: 1
Select Std (D/W/I)?: Dry
Standard Value?: 0.080
Standard Lot #?: 16512080A2
Standard Cyl #: 21
Standard Expiration?: 08/01/2018
Oper No?: 777777

Flow Cal. Date: 07/15/2013
Slope: 664
Intercept: -578364

IR Calibration Date: 04/10/2014
3um 9um

<table>
<thead>
<tr>
<th>0th Coef (*100)</th>
<th>1st Coef (*100)</th>
<th>2nd Coef (*100)</th>
<th>H2O adj (mg/l *10k)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-18211</td>
<td>290569</td>
<td>1775</td>
<td>482</td>
</tr>
<tr>
<td>-24297</td>
<td>197769</td>
<td>897</td>
<td>507</td>
</tr>
</tbody>
</table>

************ Printer Test End ************

Operator Signature
DHK KASHUR

Remarks:

Form 106-18000
WHAT IS WRONG WITH MY TEST?

Intoxilyzer® 8000 operators may run into situations that may affect their test record. If this occurs, the Intoxilyzer® 8000 is designed to abort a test if it detects an incident that may affect the test result. What the operator does next is critical to obtaining a valid test.

This section will cover what factors may cause such incidents and what to do if they arise. Try not to get upset as the Intoxilyzer® 8000 is doing what it is designed to do.

The following pages are examples of test records one may see in the field that would make the test invalid.
WHY? A strong level of radio frequency interference (RFI) is present and may give a false breath result or gas standard analysis.

WHAT DO I DO? This test record is invalid, but it still needs to be signed and turned in with any other tests run (breath, blood, or urine). Try to remove the source of RFI and repeat the test as soon as possible. Removing RFI could be as simple as turning off your radio or cell phone, or it may be more difficult, such as in a correctional facility where RFI’s are more common due to increased radio activity.
Ambient Fail

WHY? The room air is contaminated with chemicals that may interfere with testing. These chemicals may be smoke, alcohol, cleaning supplies, or even paint fumes.

WHAT DO I DO? Clear the room air if you can. Perhaps opening a window or bringing a fan into the room. After clearing the air in the room, repeat the test as soon as possible. Sign all records, valid and invalid.
Difference Too Great

WHY? This results when the difference between the two adequate breath samples is greater than 0.020 AC. It’s possible the officer and/or operator didn’t wait the required 20 minute deprivation period. Or maybe the subject regurgitated alcohol back up into the esophagus or mouth. This may give a false high result.

WHAT DO I DO? Wait another 20 minutes with the subject having nothing to eat, drink, or smoke. Repeat the test. Sign all records, valid and invalid.
Invalid Test – Mouth Alcohol

WHY? The instrument detected residual mouth alcohol on the subject’s breath sample.

WHAT DO I DO? Wait another 20 minutes with the subject having nothing to eat, drink, or smoke. Repeat the test. Sign all records, valid and invalid.

Note: There is also a Purge Fail on this test record. This means that the instrument did not adequately purge the sample chamber of ethanol during the timed room air.
Calibration Out of Tolerance

WHY? The calibration check is out of the tolerance range of 0.075-0.085 AC.

WHAT DO I DO? Don’t waste time trying to run another test. Get blood or urine test. It’s possible the instrument may need to be recalibrated. When possible, either you or the Field Inspector should call the Breath Alcohol Division at the Crime Lab to troubleshoot.
Interferent Detected

WHY? The subject's breath sample contains a substance other than ethanol, such as, acetone, methanol, or other denatured alcohols. The subject may be having a diabetic reaction or has been drinking alcohol deemed not fit for human consumption.

WHAT DO I DO? Get the subject medical attention! You will not be able to continue with a breath test, so get blood or urine at the medical facility when able.
Refusal

This test shows a refusal by the subject. Here, an operator pressed the “R” key on the keyboard because the subject failed to cooperate during the testing procedure.

This may be used in court to show a refusal.
TROUBLE SHOOTING & QUESTIONS

Operator Cards:

Q. I lost my operator card. Can I still run a test on the Intoxilyzer® 8000?

A. Yes. You may manually enter your operator information. Contact the Crime Lab for another card.

Q. When I scan my operator card or manually enter my operator information the display reads INVALID ID and won’t let me continue to run a test.

A. If you are manually entering your information, first make sure you entered your operator number correctly. If you have entered it correctly and/or your operator card fails to work you may have let your certification lapse and the instrument no longer recognizes your information. Take online recertification training at: http://www.ag.nd.gov/CrimeLab/LawEnforcementTraining/BreathAlcohol/index.htm.

Also, the Intoxilyzer® 8000 may not have the most current download of operator information. Contact the Breath Alcohol Program to update data, if needed.

Note: Once the display reads INVALID ID it will go back to display Please scan ID or press enter. To go back to Ready Mode press the Start Test button. Sequence Aborted will display and will then go back to reading Ready Mode for another operator to run a test.

Testing:

Q. The Intoxilyzer® 8000 keeps running a single breath test when I want to run a two breath test. What’s wrong with the instrument?

A. Nothing is wrong with the instrument. You’re in ABA mode (Esc, Esc, Enter) when you need to get into CMS (Esc, Esc, Start Test). Even though the ABA test may be a good test for a different situation, the Approved Method to Conduct Breath Tests with the Intoxilyzer® 8000 was not followed, therefore, making the ABA test an invalid test in court. Remember to sign and submit all test records (valid and invalid).

Q. Instead of waiting the 20 minute deprivation period with the subject having nothing to eat, drink, or smoke I let the subject blow closer to 15 minutes because I was in a hurry. Is it really that big of a deal?
A. Yes, it is a big deal because it doesn’t follow the Approved Method to Conduct Breath Tests with the Intoxilyzer® 8000. And, a 20 minute wait further ensures any possible mouth alcohol has dissipated. Some states follow a 15 minute deprivation period, but we are not one of them.

**Printer:**

Q. The Intoxilyzer® 8000 is printing from the internal printer instead of the external printer. How do I fix this?

A. First of all, I want to stress that a test record printed by either printer can be legally used. But, to print again with the external printer, in most cases the Intoxilyzer® 8000 will need to be rebooted so it can recognize the external printer again. Do this by turning off both the main power and battery switches on the back of the instrument. Make sure the external printer’s power switch is on, all printer connections are properly seated, and printer paper is inside. Power the Intoxilyzer® 8000 back on by first turning on the main power switch, listen carefully for a “click” and then turn on the battery switch. After a brief warm-up the Intoxilyzer® 8000 will be back in Ready Mode. To check if it will print externally, run a Print test (Esc, Esc, Enter, P).

Q. How do I print another copy of my test record?

A. You can print another copy of your CMS test record by pressing the F1 key. This will print only the last CMS test record run on the instrument.

Q. I lost the test record(s) and I have court coming up. Can I get a copy of my test from the Crime Lab?

A. No. We download Intoxilyzer® 8000 data for statistical purposes only. The data we see at the lab looks nothing like the test record (Form 106 - I8000) and cannot be used in court.

**Ethanol Gas Standard:**

Q. I noticed a few operators ran tests with an expired ethanol gas cylinder. What happens to these tests?

A. These tests are considered invalid if run after the expiration date. We know from Initial Intoxilyzer® 8000 classes that using an expired gas cylinder can still accurately perform tests long after the expiration date, but we must strictly adhere to the expiration date listed by the manufacturer. Any certified operator can install
a new cylinder. If you don’t have one you will need to call the Breath Alcohol Program to make arrangements for pickup. We cannot mail them.

Q. What do I do with an empty or expired gas cylinder?

A. If your cylinder is empty you may dispose of it in the garbage or try to recycle. (Note: a recycling company in Bismarck will not take cylinders unless they are cut in half. So, we drain ours and then dispose of them in the garbage.) If there is still gas in the cylinder you can bring it back to the Crime Lab for us to drain/dispose.

Sobriety Checkpoints:

Q. My agency is planning a DUI Checkpoint over the weekend. Can we bring the Intoxilyzer® 8000 to that location?

A. Yes, agencies can either use the instrument located at their agency or call the Breath Alcohol Program for a spare Intoxilyzer® 8000. A certified Field Inspector will need to install the instrument at the checkpoint location and again back at the agency (unless a spare is used).