Electronic Reporting Tool

Software to Standardize Source Test Planning, Reporting and Assessment

Measurement Technology Workshop
12/8/2010
Ron Myers
OAQPS/SPPD/MPG

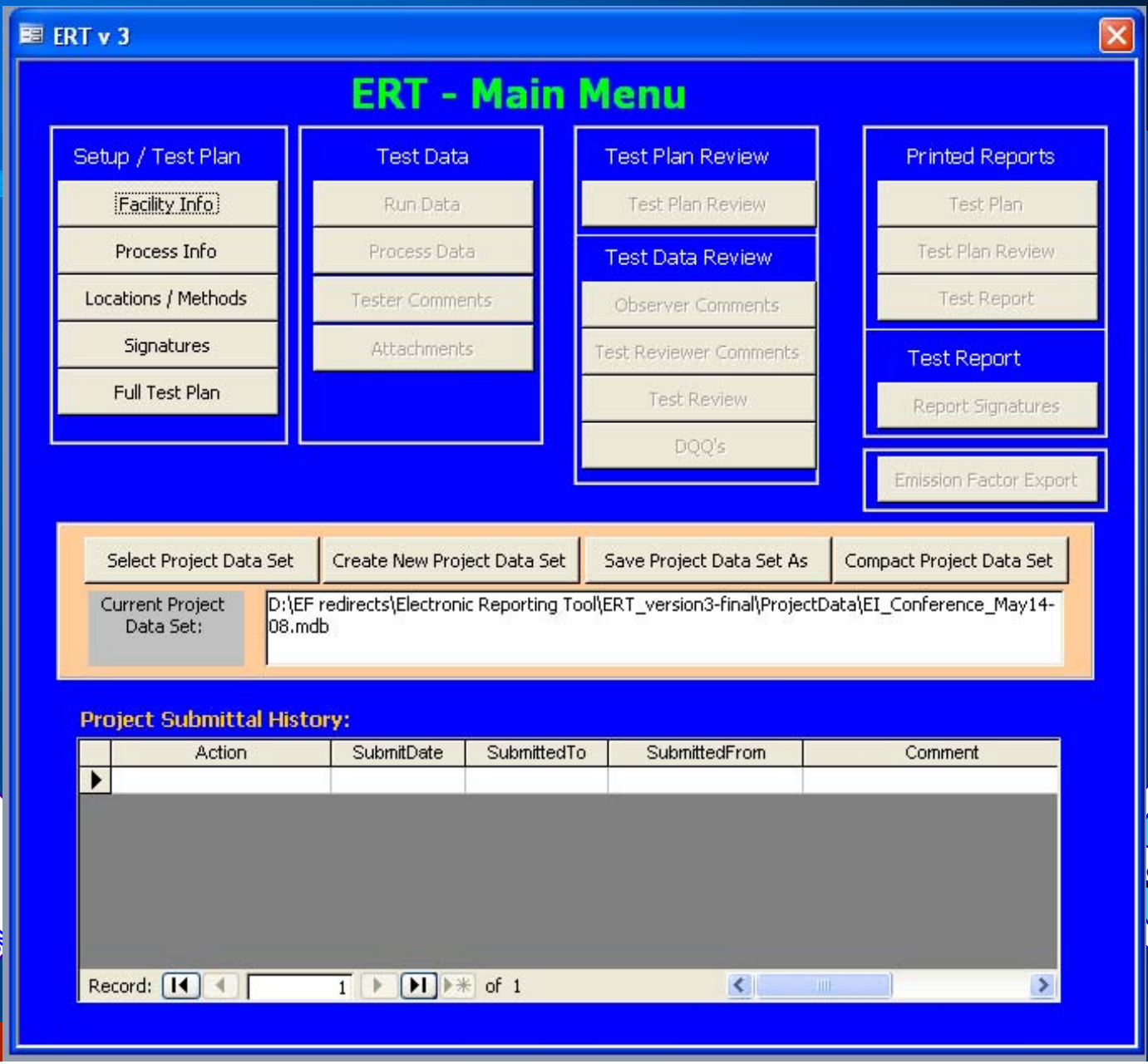
Test Report Uses

- Compliance certification
- Permit applications or revisions
- Permit fee determination
- Emissions Inventory
- Performance information
- Modeling
- Risk Assessment
- Environmental Justice Issues
- TRI – CERCLA – SARA
- AIRS AFS reporting
- Complaint Evaluations

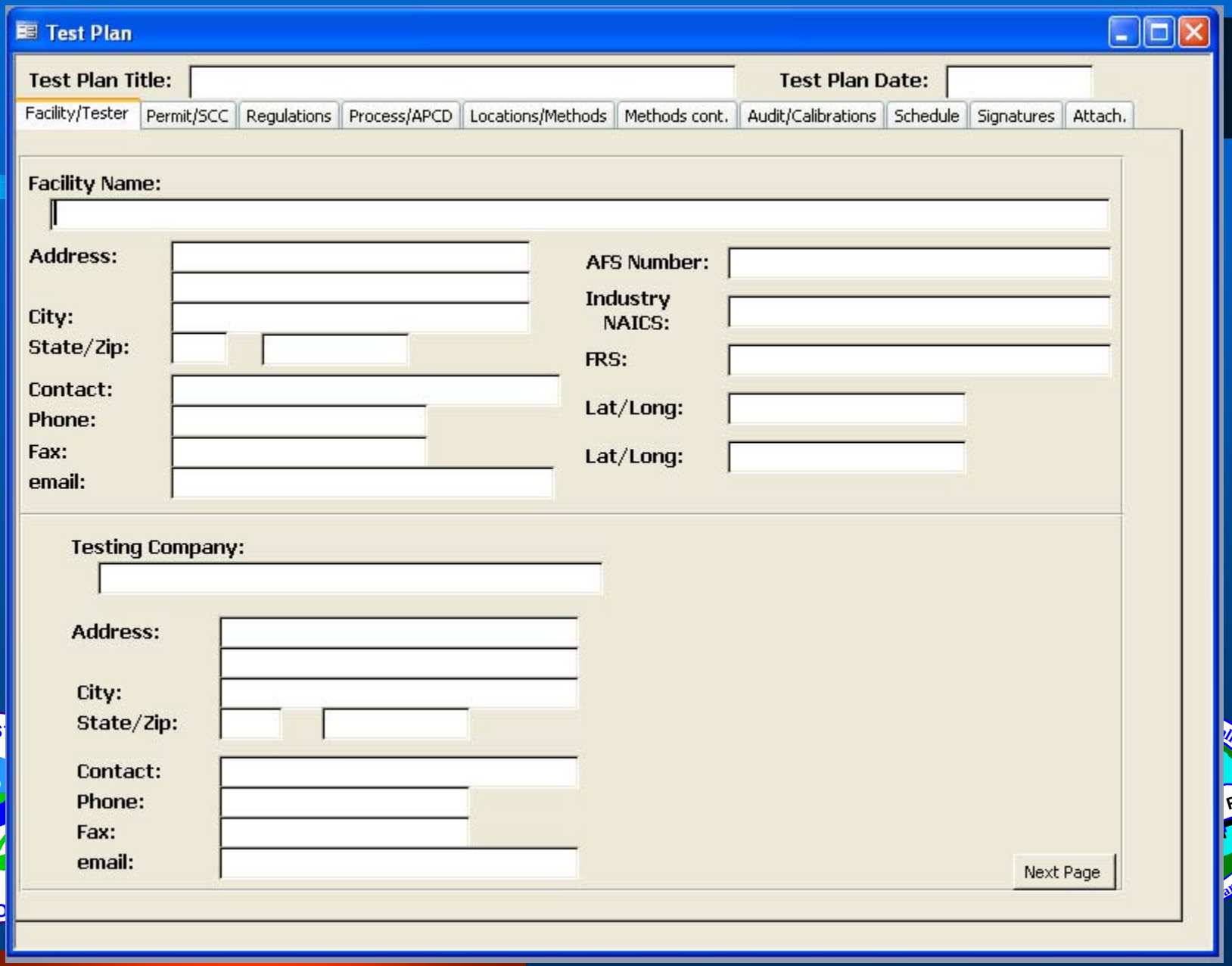
The Electronic Reporting Tool

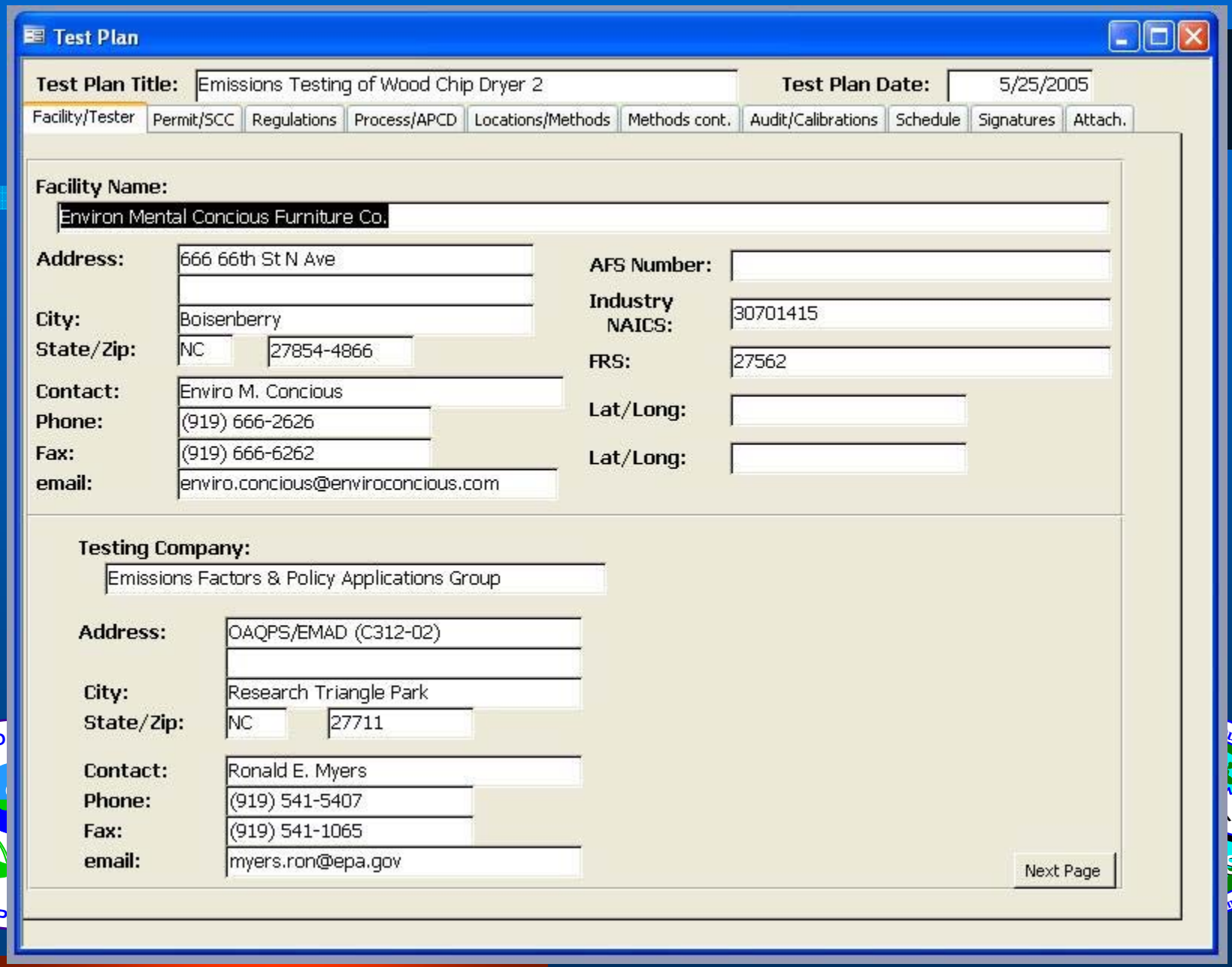
- **http://www.epa.gov/ttn/chief/ert/ert_tool.html**
- **Version 3.1 Methods**
  - **Methods 1 through 4, 3A, 5, 6C, 7E, 10, 17, 23, 25A, 26A, 29, 101, 101A, 201A, 202, OTM-27, OTM-28 & CTM-039**
- **Version 3.1 Pollutants**
  - **Filterable PM, Condensable PM, PM10, PM2.5, CO, Chlorine, Chloride, HCl, Total Chloride, NOx, SO2, Metals (Sb, As, B, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, P, Se, Ag, Th and Zn), TOC (as C, CH_4, C_2H_6, C_3H_8), dioxin/furans, PCB's, PAH (19)**

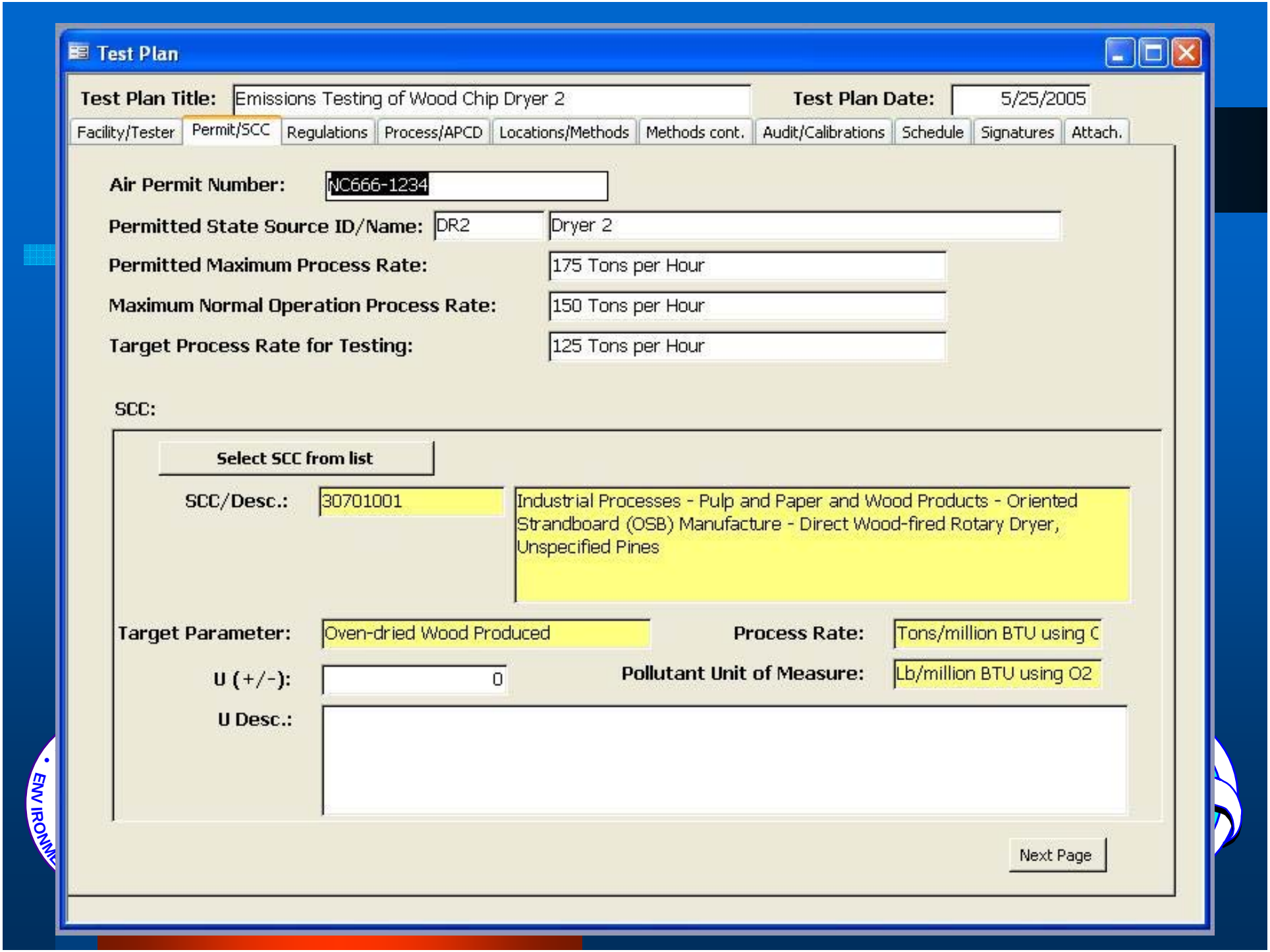
New Unpopulated Project Data Set

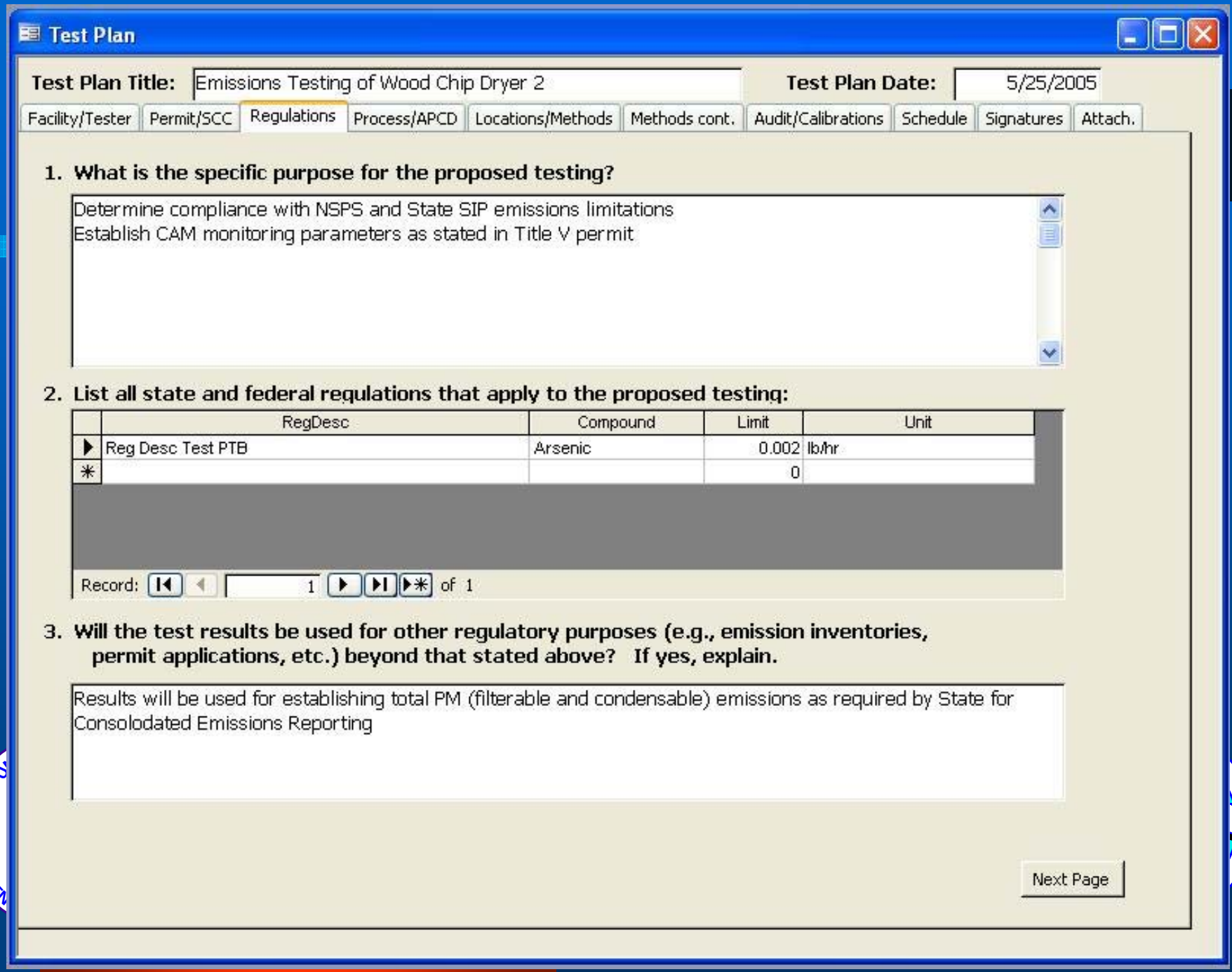


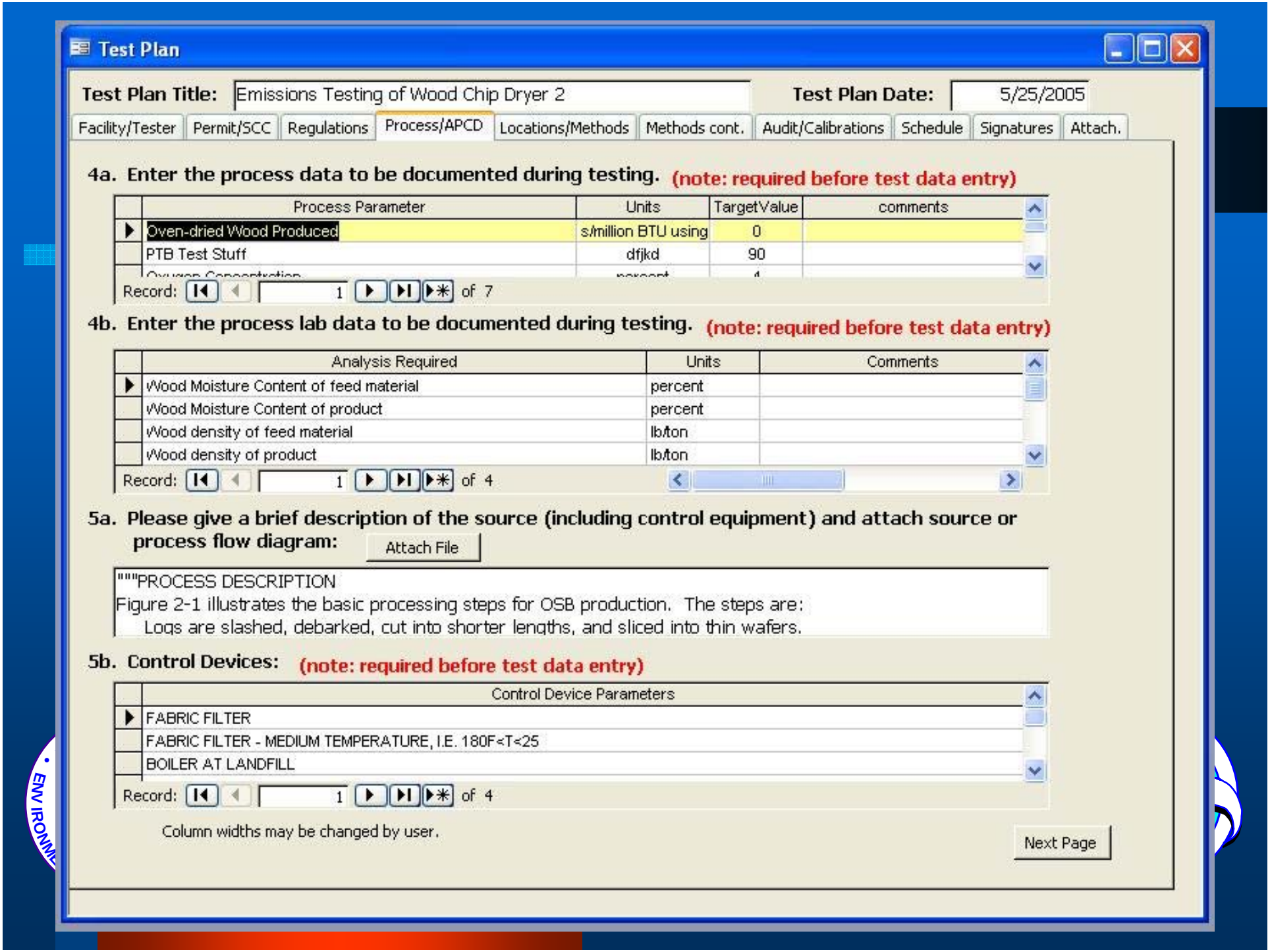
Blank Test Plan Entry Screen

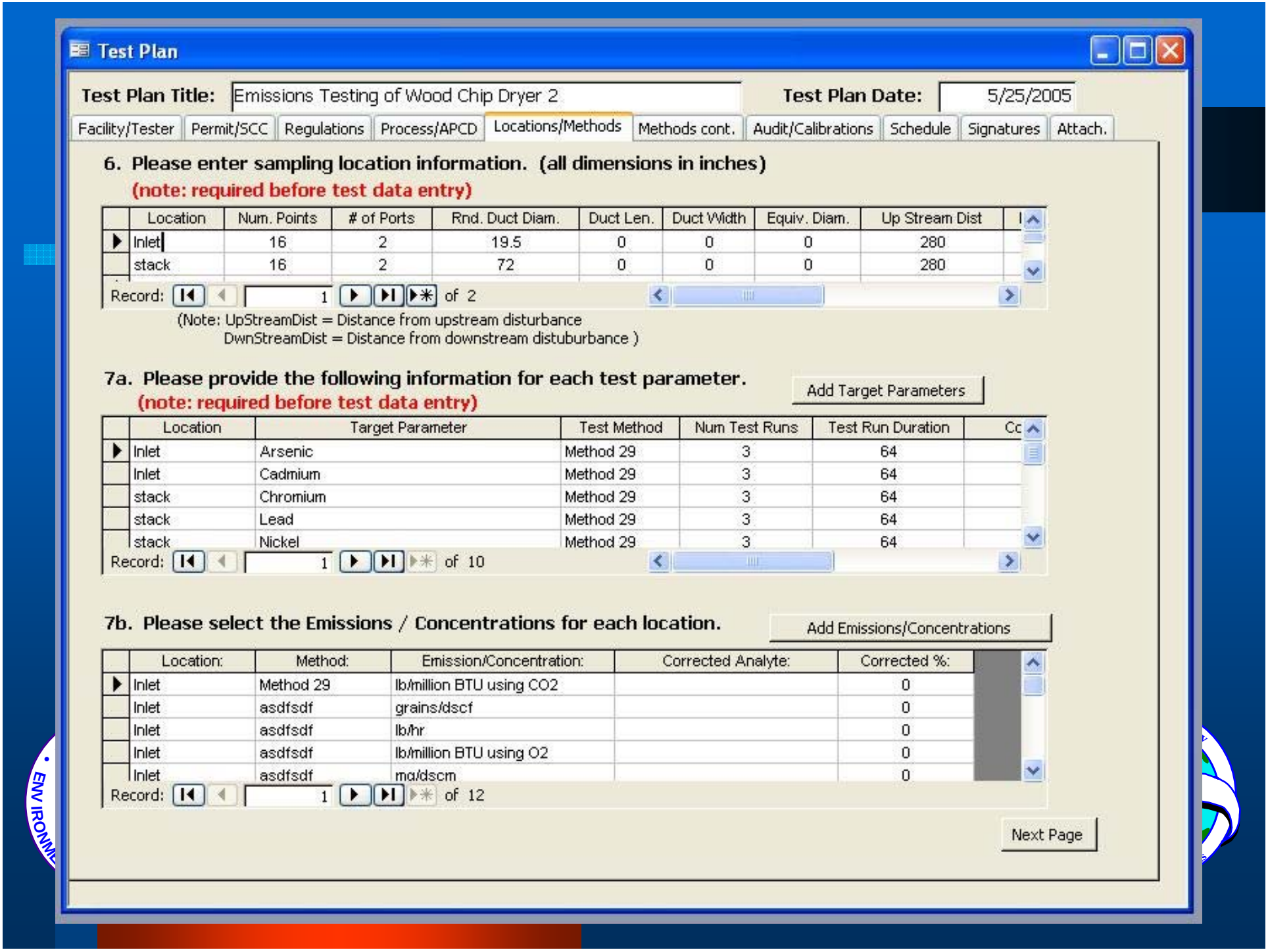



Test Plan
Test Plan Title: Emissions Testing of Wood Chip Dryer 2
Test Plan Date: 5/25/2005
Facility/Tester
Permit/SCC
Regulations
Process/APCD
Locations/Methods
Methods cont.
Audit/Calibrations
Schedule
Signatures
Attach.
Facility Name:
Environ Mental Concious Furniture Co.
Address: 666 66th St N Ave
City: Boisenberry
State/Zip: NC 27854-4866
Contact: Enviro M. Concious
Phone: (919) 666-2626
Fax: (919) 666-6262
email: enviro.concious@enviroconcious.com
AFS Number:
Industry NAICS: 30701415
FRS: 27562
Lat/Long:
Lat/Long:
Testing Company:
Emissions Factors & Policy Applications Group
Address: OAQPS/EMAD (C312-02)
City: Research Triangle Park
State/Zip: NC 27711
Contact: Ronald E. Myers
Phone: (919) 541-5407
Fax: (919) 541-1065
email: myers.ron@epa.gov
Next Page


Test Plan
Test Plan Title:
Emissions Testing of Wood Chip Dryer 2
Test Plan Date:
5/25/2005
Facility/Tester
Permit/SCC
Regulations
Process/APCD
Locations/Methods
Methods cont.
Audit/Calibrations
Schedule
Signatures
Attach.
Air Permit Number:
NC666-1234
Permitted State Source ID/Name:
DR2
Dryer 2
Permitted Maximum Process Rate:
175 Tons per Hour
Maximum Normal Operation Process Rate:
150 Tons per Hour
Target Process Rate for Testing:
125 Tons per Hour
SCC:
Select SCC from list
SCC/Desc.:
30701001
Industrial Processes - Pulp and Paper and Wood Products - Oriented Strandboard (OSB) Manufacture - Direct Wood-fired Rotary Dryer, Unspecified Pines
Target Parameter:
Oven-dried Wood Produced
Process Rate:
Tons/million BTU using C
U (+/-):
0
Pollutant Unit of Measure:
Lb/million BTU using O2
U Desc.:
Next Page


Test Plan
Test Plan Title: Emissions Testing of Wood Chip Dryer 2
Test Plan Date: 5/25/2005
Facility/Tester
Permit/SCC
Regulations
Process/APCD
Locations/Methods
Methods cont.
Audit/Calibrations
Schedule
Signatures
Attach.
1. What is the specific purpose for the proposed testing?
Determine compliance with NSPS and State SIP emissions limitations
Establish CAM monitoring parameters as stated in Title V permit
2. List all state and federal regulations that apply to the proposed testing:
RegDesc
Compound
Limit
Unit
Reg Desc Test PTB
Arsenic
0.002
lb/hr
0
Record: 1 of 1
3. Will the test results be used for other regulatory purposes (e.g., emission inventories, permit applications, etc.) beyond that stated above? If yes, explain.
Results will be used for establishing total PM (filterable and condensable) emissions as required by State for Consolodated Emissions Reporting
Next Page


Test Plan
Test Plan Title: Emissions Testing of Wood Chip Dryer 2
Test Plan Date: 5/25/2005
Facility/Tester
Permit/SCC
Regulations
Process/APCD
Locations/Methods
Methods cont.
Audit/Calibrations
Schedule
Signatures
Attach.
4a. Enter the process data to be documented during testing. (note: required before test data entry)
Process Parameter
Units
TargetValue
comments
Oven-dried Wood Produced
s/million BTU using
0
PTB Test Stuff
dfjkd
90
Record: 1 of 7
4b. Enter the process lab data to be documented during testing. (note: required before test data entry)
Analysis Required
Units
Comments
Wood Moisture Content of feed material
percent
Wood Moisture Content of product
percent
Wood density of feed material
lb/ton
Wood density of product
lb/ton
Record: 1 of 4
5a. Please give a brief description of the source (including control equipment) and attach source or process flow diagram:
Attach File
"""PROCESS DESCRIPTION
Figure 2-1 illustrates the basic processing steps for OSB production. The steps are:
Logs are slashed, debarked, cut into shorter lengths, and sliced into thin wafers.
5b. Control Devices: (note: required before test data entry)
Control Device Parameters
FABRIC FILTER
FABRIC FILTER - MEDIUM TEMPERATURE, I.E. 180F<T<25
BOILER AT LANDFILL
Record: 1 of 4
Column widths may be changed by user.
Next Page


Test Plan
Test Plan Title: Emissions Testing of Wood Chip Dryer 2
Test Plan Date: 5/25/2005
Facility/Tester
Permit/SCC
Regulations
Process/APCD
Locations/Methods
Methods cont.
Audit/Calibrations
Schedule
Signatures
Attach.
6. Please enter sampling location information. (all dimensions in inches)
(note: required before test data entry)
Location | Num. Points | # of Ports | Rnd. Duct Diam. | Duct Len. | Duct Width | Equiv. Diam. | Up Stream Dist
Inlet | 16 | 2 | 19.5 | 0 | 0 | 0 | 280
stack | 16 | 2 | 72 | 0 | 0 | 0 | 280
Record: 1 of 2
(Note: UpStreamDist = Distance from upstream disturbance
DwnStreamDist = Distance from downstream distuburbance)
7a. Please provide the following information for each test parameter.
(note: required before test data entry)
Add Target Parameters
Location | Target Parameter | Test Method | Num Test Runs | Test Run Duration
Inlet | Arsenic | Method 29 | 3 | 64
Inlet | Cadmium | Method 29 | 3 | 64
stack | Chromium | Method 29 | 3 | 64
stack | Lead | Method 29 | 3 | 64
stack | Nickel | Method 29 | 3 | 64
Record: 1 of 10
7b. Please select the Emissions / Concentrations for each location.
Add Emissions/Concentrations
Location: | Method: | Emission/Concentration: | Corrected Analyte: | Corrected %:
Inlet | Method 29 | lb/million BTU using CO2 | | 0
Inlet | asdfsdf | grains/dscf | | 0
Inlet | asdfsdf | lb/hr | | 0
Inlet | asdfsdf | lb/million BTU using O2 | | 0
Inlet | asdfsdf | mg/dscm | | 0
Record: 1 of 12
Next Page

Test Plan

Test Plan Title: Emissions Testing of Wood Chip Dryer 2 **Test Plan Date:** 5/25/2005

Facility/Tester | Permit/SCC | Regulations | Process/APCD | Locations/Methods | Methods cont. | Audit/Calibrations | Schedule | Signatures | Attach.

8. Describe below or attach complete documentation of all modifications and/or deviations to the applicable test methods. If major modification and/or alternative methods requested, attach documentation of request AND approval, including dates. Attach File

Instead of using the procedures prescribed in NC rule 25NC7725-3, we propose using a combination of Method 202 and Method 315 procedures. These include purging with Nitrogen and the use of Methelene Chloride as the extracant. In addition, we propose to use acetone as a finish solvent following the Methelene

9. Does the proposed sampling location meet the minimum EPA Method 1 criteria for acceptable measurement sites? Please list below or attach the supporting documentation. Attach File

☐ Yes ☑ No

10. Has absence of cyclonic flow been verified per EPA Method 1 (Section 2.4)? If no, absence of cyclonic flow must be verified prior to testing. If yes, please attach supporting documentation. Attach File

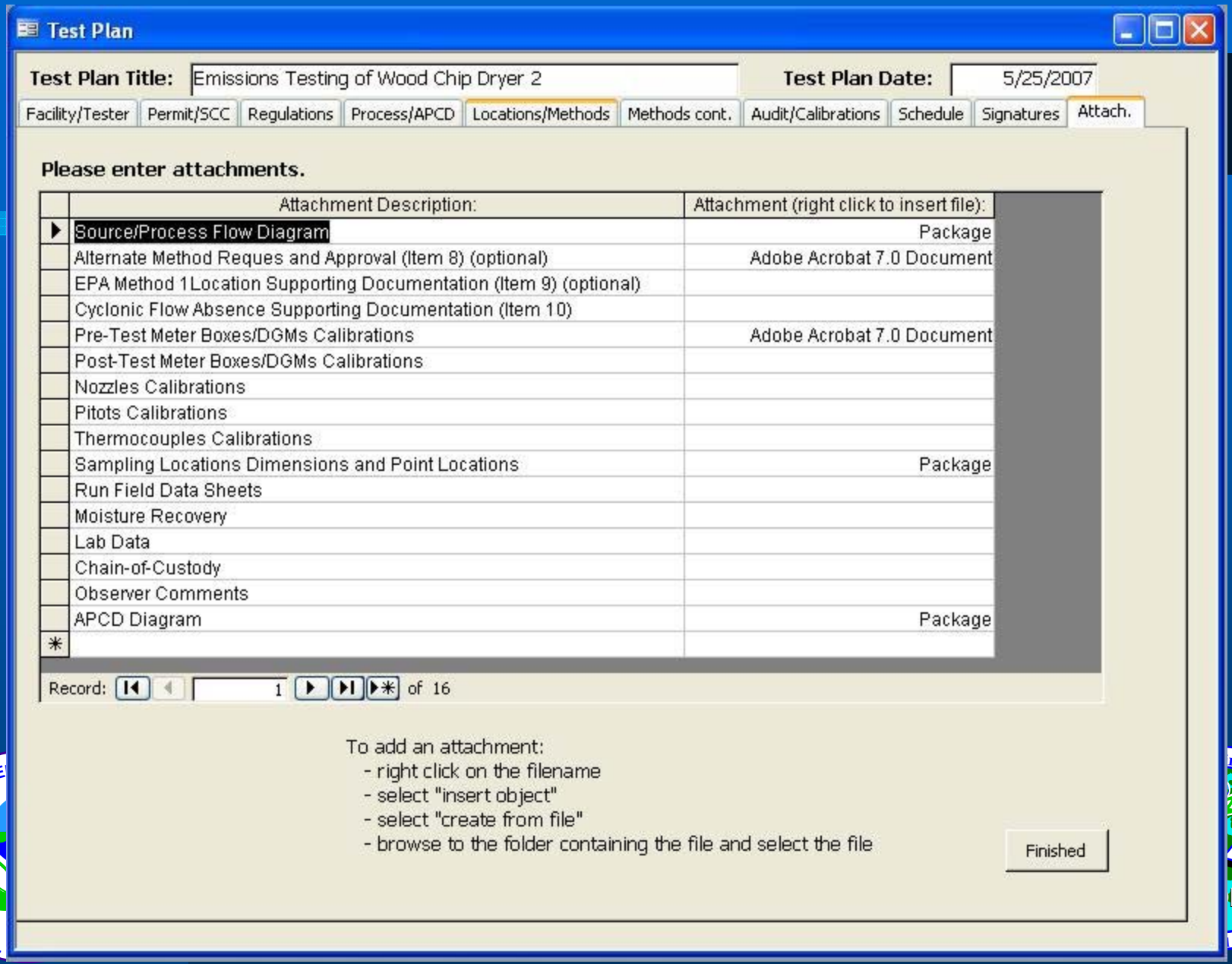
☐ Yes ☑ No

Cyclonic flow will be determined as part of the initial velocity traverse

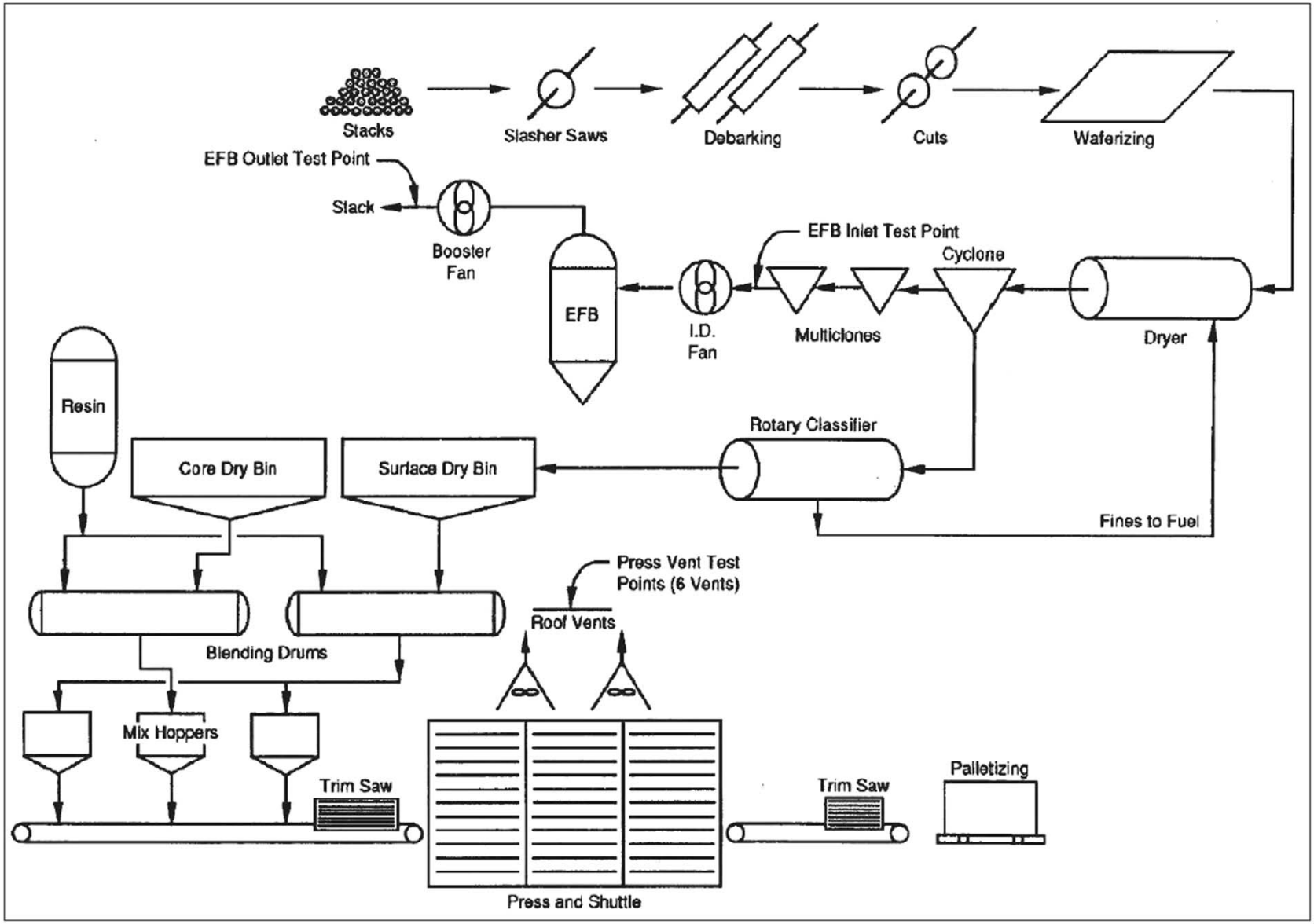
11. Select the method that will determine the oxygen concentration :

M3A-instrumental

Next Page

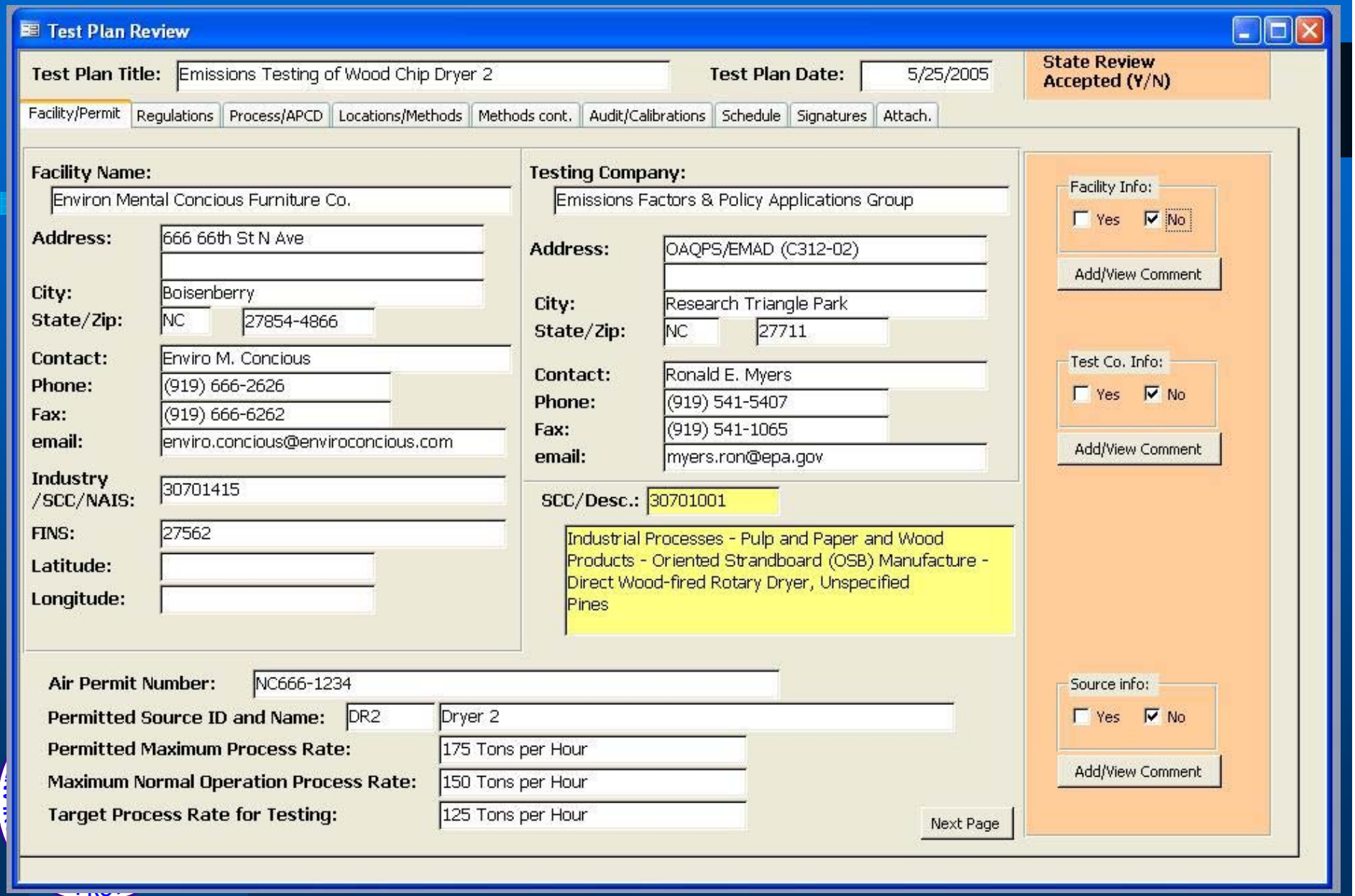

Test Plan
Test Plan Title: Emissions Testing of Wood Chip Dryer 2
Test Plan Date: 5/25/2007
Facility/Tester
Permit/SCC
Regulations
Process/APCD
Locations/Methods
Methods cont.
Audit/Calibrations
Schedule
Signatures
Attach.
Please enter attachments.
Attachment Description:
Attachment (right click to insert file):
Source/Process Flow Diagram
Package
Alternate Method Reques and Approval (Item 8) (optional)
Adobe Acrobat 7.0 Document
EPA Method 1Location Supporting Documentation (Item 9) (optional)
Cyclonic Flow Absence Supporting Documentation (Item 10)
Pre-Test Meter Boxes/DGMs Calibrations
Adobe Acrobat 7.0 Document
Post-Test Meter Boxes/DGMs Calibrations
Nozzles Calibrations
Pitots Calibrations
Thermocouples Calibrations
Sampling Locations Dimensions and Point Locations
Package
Run Field Data Sheets
Moisture Recovery
Lab Data
Chain-of-Custody
Observer Comments
APCD Diagram
Package
Record: 1 of 16
To add an attachment:
- right click on the filename
- select "insert object"
- select "create from file"
- browse to the folder containing the file and select the file
Finished

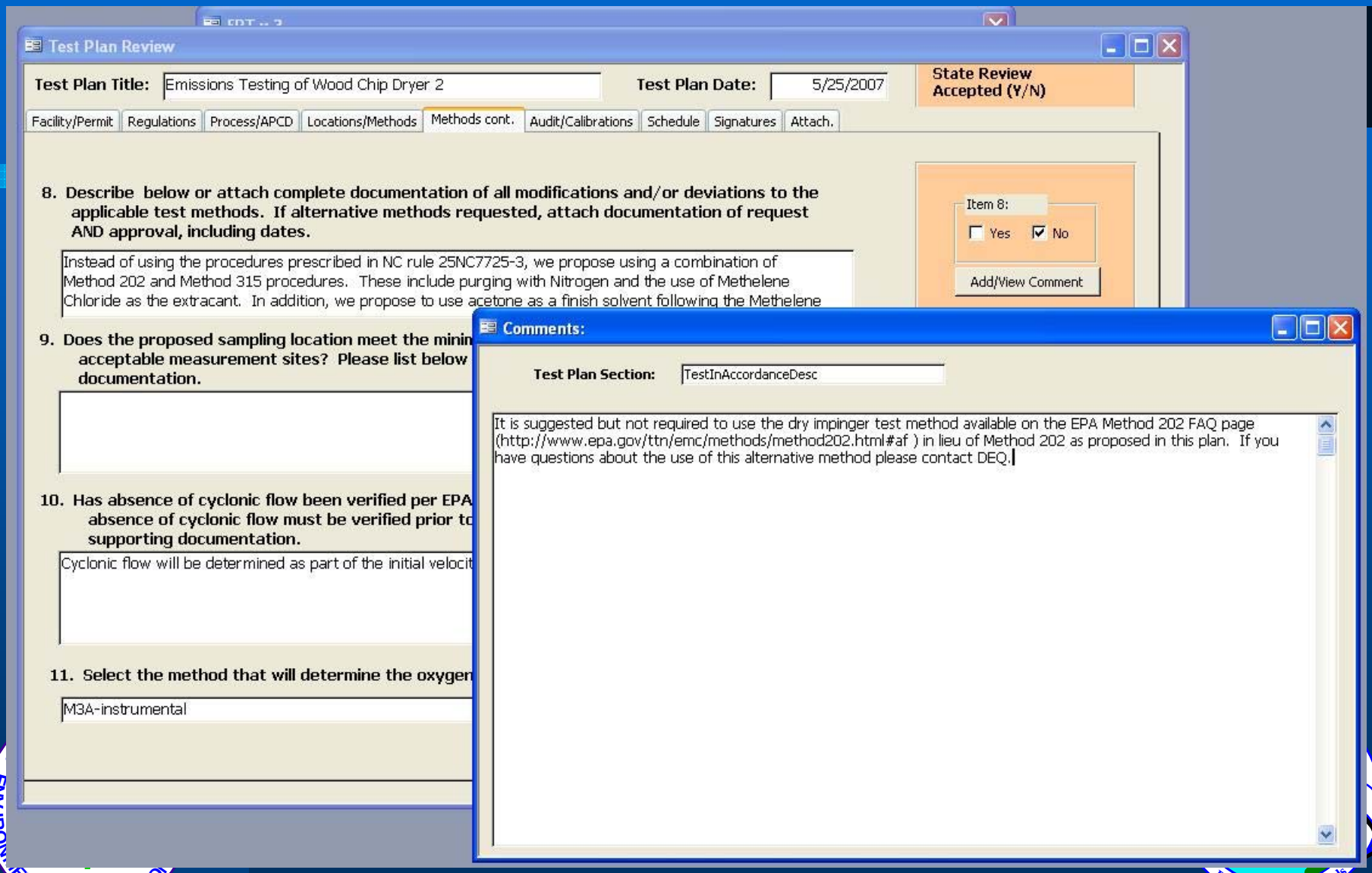
D__EFREDI~1_ELECTR~1_ERT_VE~1_PROJEC~1_OSBPRO~1[1].JPG - Windows Picture and Fax Viewer



Test Plan Review

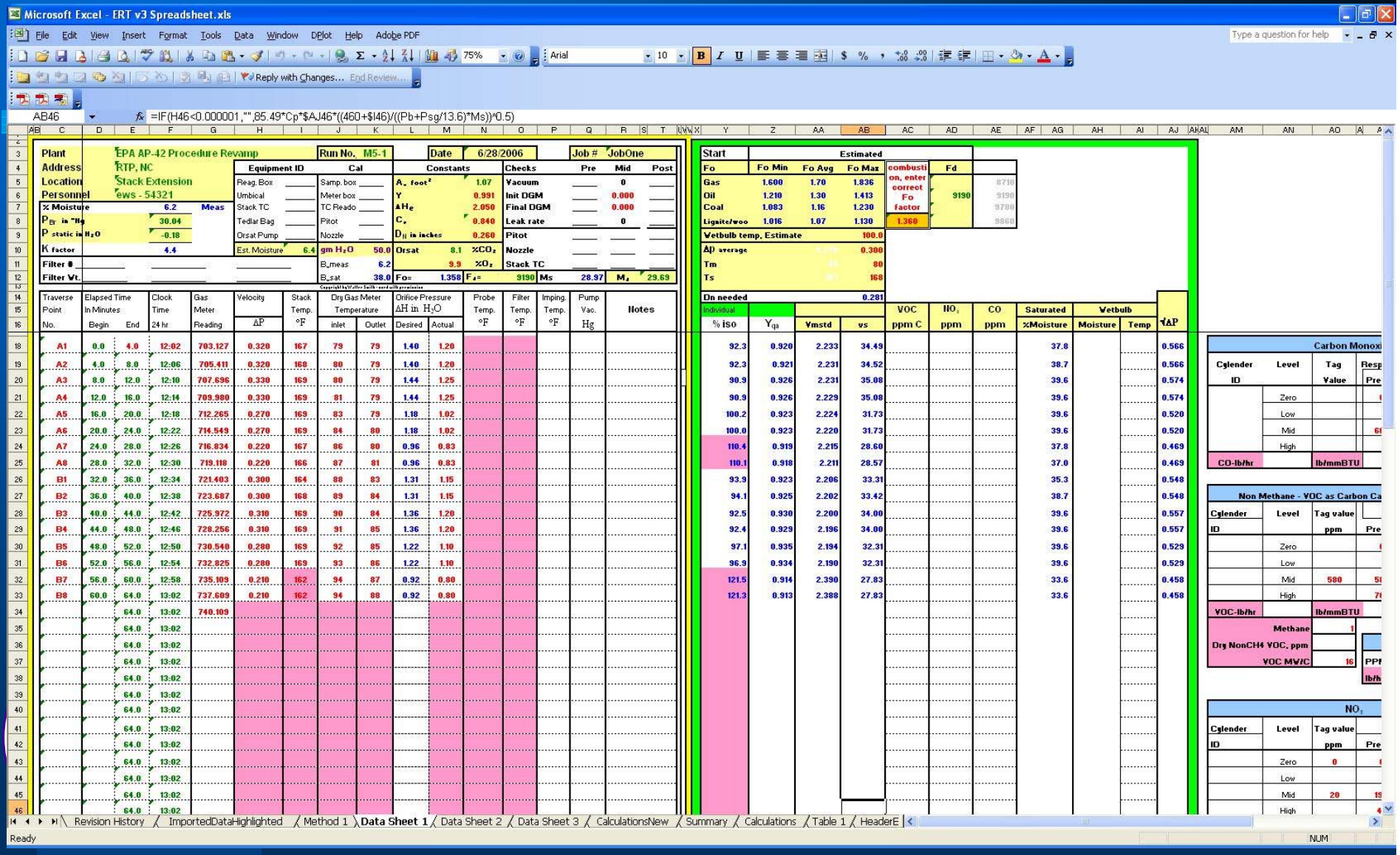
- **Provides test contractor feed back on information needed prior to test**
- **Allows State/local agency evaluation of proposed test program.**
- **Notifies State/local agency of test date and special access requirements.**
- **Allows for linked and improved documentation of acceptance or comments.**

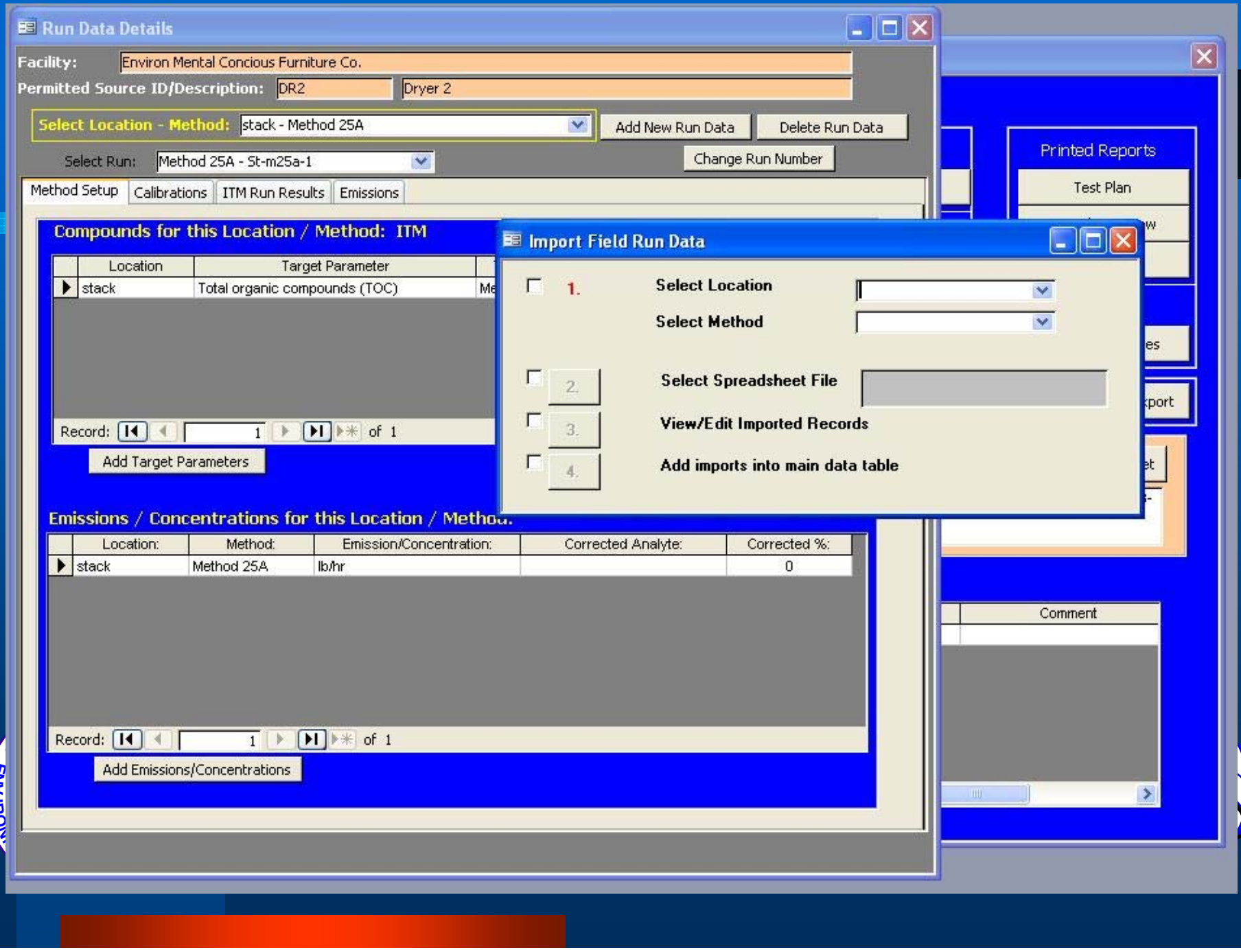

Test Plan Review
Test Plan Title: Emissions Testing of Wood Chip Dryer 2
Test Plan Date: 5/25/2005
State Review Accepted (Y/N)
Facility/Permit
Regulations
Process/APCD
Locations/Methods
Methods cont.
Audit/Calibrations
Schedule
Signatures
Attach.
Facility Name:
Environ Mental Concious Furniture Co.
Address: 666 66th St N Ave
City: Boisenberry
State/Zip: NC 27854-4866
Contact: Enviro M. Concious
Phone: (919) 666-2626
Fax: (919) 666-6262
email: enviro.concious@enviroconcious.com
Industry /SCC/NAIS: 30701415
FINS: 27562
Latitude:
Longitude:
Testing Company:
Emissions Factors & Policy Applications Group
Address: OAQPS/EMAD (C312-02)
City: Research Triangle Park
State/Zip: NC 27711
Contact: Ronald E. Myers
Phone: (919) 541-5407
Fax: (919) 541-1065
email: myers.ron@epa.gov
SCC/Desc.: 30701001
Industrial Processes - Pulp and Paper and Wood Products - Oriented Strandboard (OSB) Manufacture - Direct Wood-fired Rotary Dryer, Unspecified Pines
Air Permit Number: NC666-1234
Permitted Source ID and Name: DR2 Dryer 2
Permitted Maximum Process Rate: 175 Tons per Hour
Maximum Normal Operation Process Rate: 150 Tons per Hour
Target Process Rate for Testing: 125 Tons per Hour
Next Page
Facility Info:
Yes
No
Add/View Comment
Test Co. Info:
Yes
No
Add/View Comment
Source info:
Yes
No
Add/View Comment

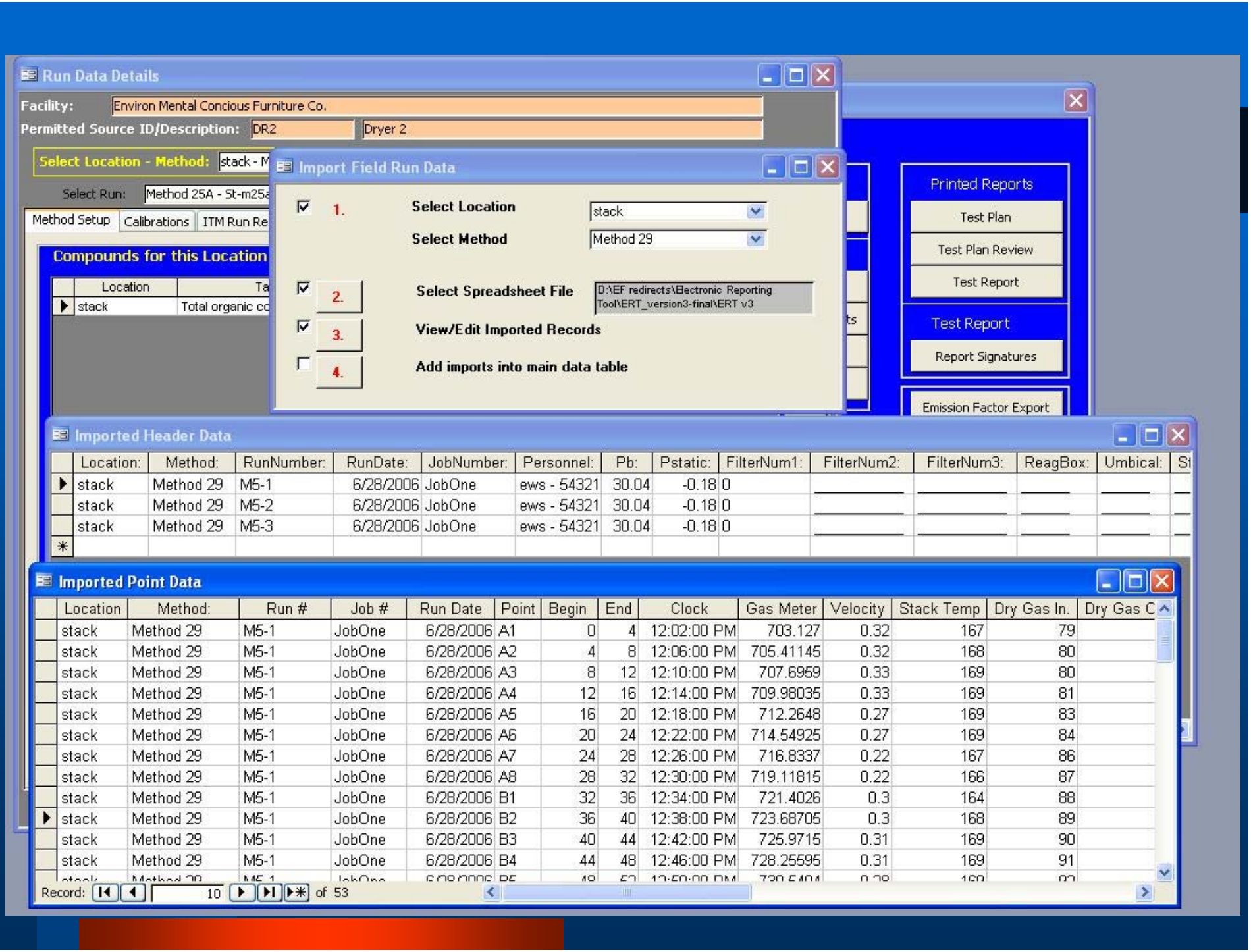

Test Plan Review
Test Plan Title: Emissions Testing of Wood Chip Dryer 2
Test Plan Date: 5/25/2007
State Review Accepted (Y/N)
Facility/Permit
Regulations
Process/APCD
Locations/Methods
Methods cont.
Audit/Calibrations
Schedule
Signatures
Attach.
8. Describe below or attach complete documentation of all modifications and/or deviations to the applicable test methods. If alternative methods requested, attach documentation of request AND approval, including dates.
Instead of using the procedures prescribed in NC rule 25NC7725-3, we propose using a combination of Method 202 and Method 315 procedures. These include purging with Nitrogen and the use of Methelene Chloride as the extracant. In addition, we propose to use acetone as a finish solvent following the Methelene
Item 8:
Yes
No
Add/View Comment
9. Does the proposed sampling location meet the minin
acceptable measurement sites? Please list below
documentation.
10. Has absence of cyclonic flow been verified per EPA
absence of cyclonic flow must be verified prior to
supporting documentation.
Cyclonic flow will be determined as part of the initial velocit
11. Select the method that will determine the oxygen
M3A-instrumental
Comments:
Test Plan Section: TestInAccordanceDesc
It is suggested but not required to use the dry impinger test method available on the EPA Method 202 FAQ page (http://www.epa.gov/ttn/emc/methods/method202.html#af) in lieu of Method 202 as proposed in this plan. If you have questions about the use of this alternative method please contact DEQ.

Field data collection

- **Use Excel spreadsheet application used by many contractors**
  - **Modified to extract critical information into the ERT Access application**
- **ERT application duplicates calculations in spreadsheet program using equations from FR methods**

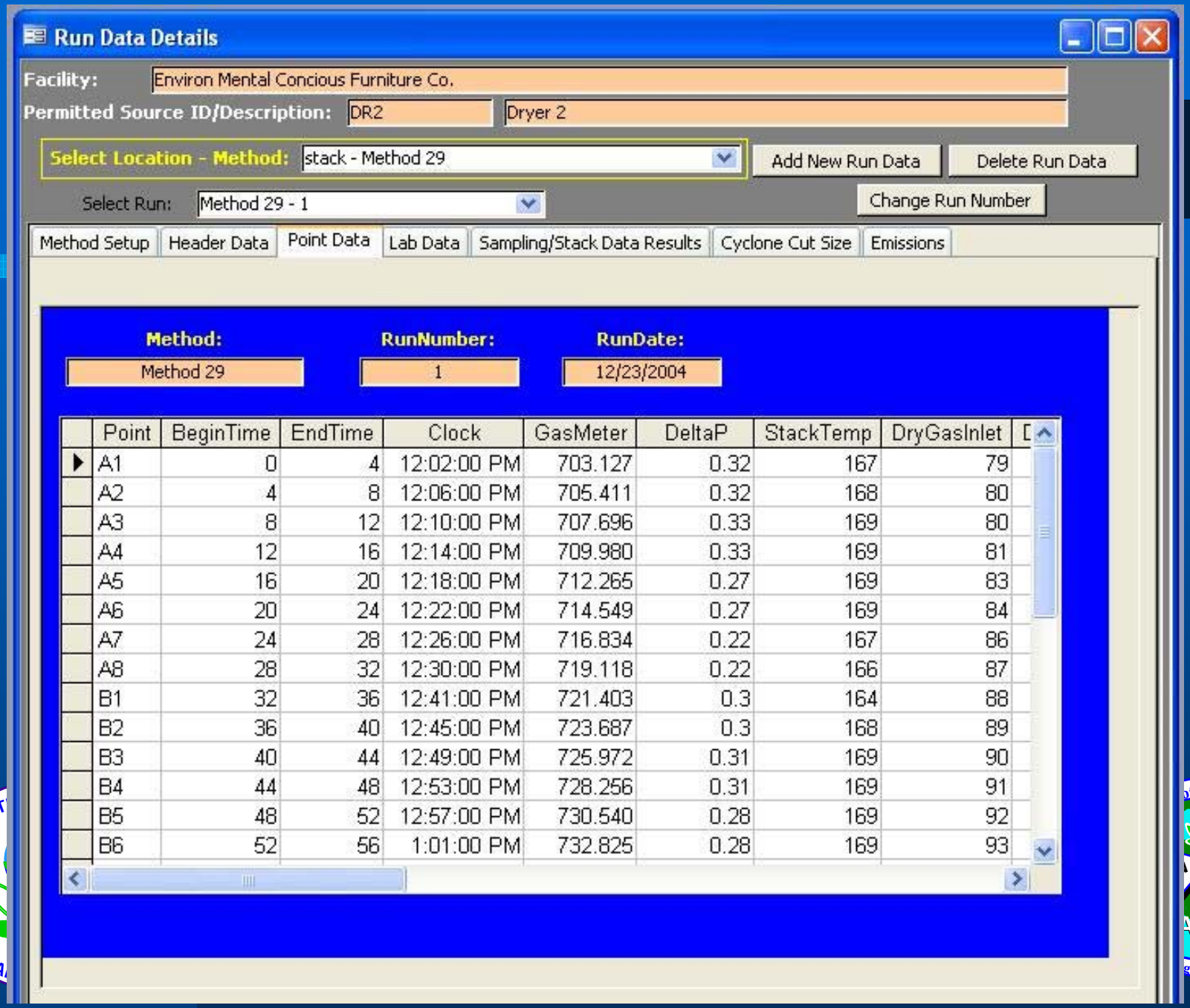

Microsoft Excel - ERT v3 Spreadsheet.xls
File Edit View Insert Format Tools Data Window DPlot Help Adobe PDF
Reply with Changes... End Review...
AB46
=IF(H46<0.000001,"",85.49*Cp*$AJ46*((460+$I46)/((Pb+Psg/13.6)*Ms))^0.5)
Plant EPA AP-42 Procedure Revamp
Address RTP, NC
Location Stack Extension
Personnel ews - 54321
Run No. M5-1
Date 6/28/2006
Job # JobOne
% Moisture 6.2 Meas
P Br in "Hg 30.04
P static in H2O -0.18
K factor 4.4
Filter #
Filter Wt.
Equipment ID
Reag. Box
Umbical
Stack TC
Tedlar Bag
Orsat Pump
Est. Moisture 6.4
Cal
Samp. box
Meter box
TC Reado
Pitot
Nozzle
B_meas 6.2
B_sat 38.0
Constants
A_s foot²
Y
ΔHe
C_p
D_N in inches
Orsat 8.1 %CO2
9.9 %O2
Fo= 1.358 Fd= 9190 Ms 28.97 Ms 29.69
Checks Pre Mid Post
Vacuum 0
Init DGM 0.000
Final DGM 0.000
Leak rate 0
Pitot
Nozzle
Stack TC
Traverse Point No.
Elapsed Time In Minutes Begin End
Clock Time 24 hr
Gas Meter Reading
Velocity ΔP
Stack Temp. °F
Dry Gas Meter Temperature inlet Outlet
Orifice Pressure ΔH in H2O Desired Actual
Probe Temp. °F
Filter Temp. °F
Imping. Temp. °F
Pump Vac. Hg
Notes
A1 0.0 4.0 12:02 703.127 0.320 167 79 79 1.40 1.20
A2 4.0 8.0 12:06 705.411 0.320 168 80 79 1.40 1.20
A3 8.0 12.0 12:10 707.696 0.330 169 80 79 1.44 1.25
A4 12.0 16.0 12:14 709.980 0.330 169 81 79 1.44 1.25
A5 16.0 20.0 12:18 712.265 0.270 169 83 79 1.18 1.02
A6 20.0 24.0 12:22 714.549 0.270 169 84 80 1.18 1.02
A7 24.0 28.0 12:26 716.834 0.220 167 86 80 0.96 0.83
A8 28.0 32.0 12:30 719.118 0.220 166 87 81 0.96 0.83
B1 32.0 36.0 12:34 721.403 0.300 164 88 83 1.31 1.15
B2 36.0 40.0 12:38 723.687 0.300 168 89 84 1.31 1.15
B3 40.0 44.0 12:42 725.972 0.310 169 90 84 1.36 1.20
B4 44.0 48.0 12:46 728.256 0.310 169 91 85 1.36 1.20
B5 48.0 52.0 12:50 730.540 0.280 169 92 85 1.22 1.10
B6 52.0 56.0 12:54 732.825 0.280 169 93 86 1.22 1.10
B7 56.0 60.0 12:58 735.109 0.210 162 94 87 0.92 0.80
B8 60.0 64.0 13:02 737.609 0.210 162 94 88 0.92 0.80
64.0 13:02 740.109
Start
Estimated
Fo Fo Min Fo Avg Fo Max
Gas 1.600 1.70 1.836
Oil 1.210 1.30 1.413
Coal 1.083 1.16 1.230
Lignite/woo 1.016 1.07 1.130
combustion, enter correct Fo factor 1.360
Fd 9190
Wetbulb temp, Estimate 100.0
ΔP average 0.300
Tm 80
Ts 168
Dn needed 0.281
Individual % iso
Yqa
Vmstd vs
VOC ppm C
NOx ppm
CO ppm
Saturated %Moisture
Wetbulb Moisture Temp
√ΔP
92.3 0.920 2.233 34.49 37.8 0.566
92.3 0.921 2.231 34.52 38.7 0.566
90.9 0.926 2.231 35.08 39.6 0.574
90.9 0.926 2.229 35.08 39.6 0.574
100.2 0.923 2.224 31.73 39.6 0.520
100.0 0.923 2.220 31.73 39.6 0.520
110.4 0.919 2.215 28.60 37.8 0.469
110.1 0.918 2.211 28.57 37.0 0.469
93.9 0.923 2.206 33.31 35.3 0.548
94.1 0.925 2.202 33.42 38.7 0.548
92.5 0.930 2.200 34.00 39.6 0.557
92.4 0.929 2.196 34.00 39.6 0.557
97.1 0.935 2.194 32.31 39.6 0.529
96.9 0.934 2.190 32.31 39.6 0.529
121.5 0.914 2.390 27.83 33.6 0.458
121.3 0.913 2.388 27.83 33.6 0.458
Carbon Monox
Cylender ID Level Tag Value Resp Pre
Zero
Low
Mid 6
High
CO-lb/hr lb/mmBTU
Non Methane - VOC as Carbon Ca
Cylender ID Level Tag value ppm Pre
Zero
Low
Mid 580 5
High 7
VOC-lb/hr lb/mmBTU
Methane 1
Dry NonCH4 VOC, ppm
VOC MW/C 16
PPI
lb/h
NOx
Cylender ID Level Tag value ppm Pre
Zero 0
Low
Mid 20 19
High 4
Revision History ImportedDataHighlighted Method 1 Data Sheet 1 Data Sheet 2 Data Sheet 3 CalculationsNew Summary Calculations Table 1 HeaderE
Ready
NUM


Run Data Details
Facility:
Environ Mental Concious Furniture Co.
Permitted Source ID/Description:
DR2
Dryer 2
Select Location - Method:
stack - Method 25A
Add New Run Data
Delete Run Data
Select Run:
Method 25A - St-m25a-1
Change Run Number
Method Setup
Calibrations
ITM Run Results
Emissions
Compounds for this Location / Method: ITM
Location
Target Parameter
stack
Total organic compounds (TOC)
Record:
1
of 1
Add Target Parameters
Emissions / Concentrations for this Location / Metho
Location:
Method:
Emission/Concentration:
Corrected Analyte:
Corrected %:
stack
Method 25A
lb/hr
0
Record:
1
of 1
Add Emissions/Concentrations
Import Field Run Data
1.
Select Location
Select Method
2.
Select Spreadsheet File
3.
View/Edit Imported Records
4.
Add imports into main data table
Printed Reports
Test Plan
Comment

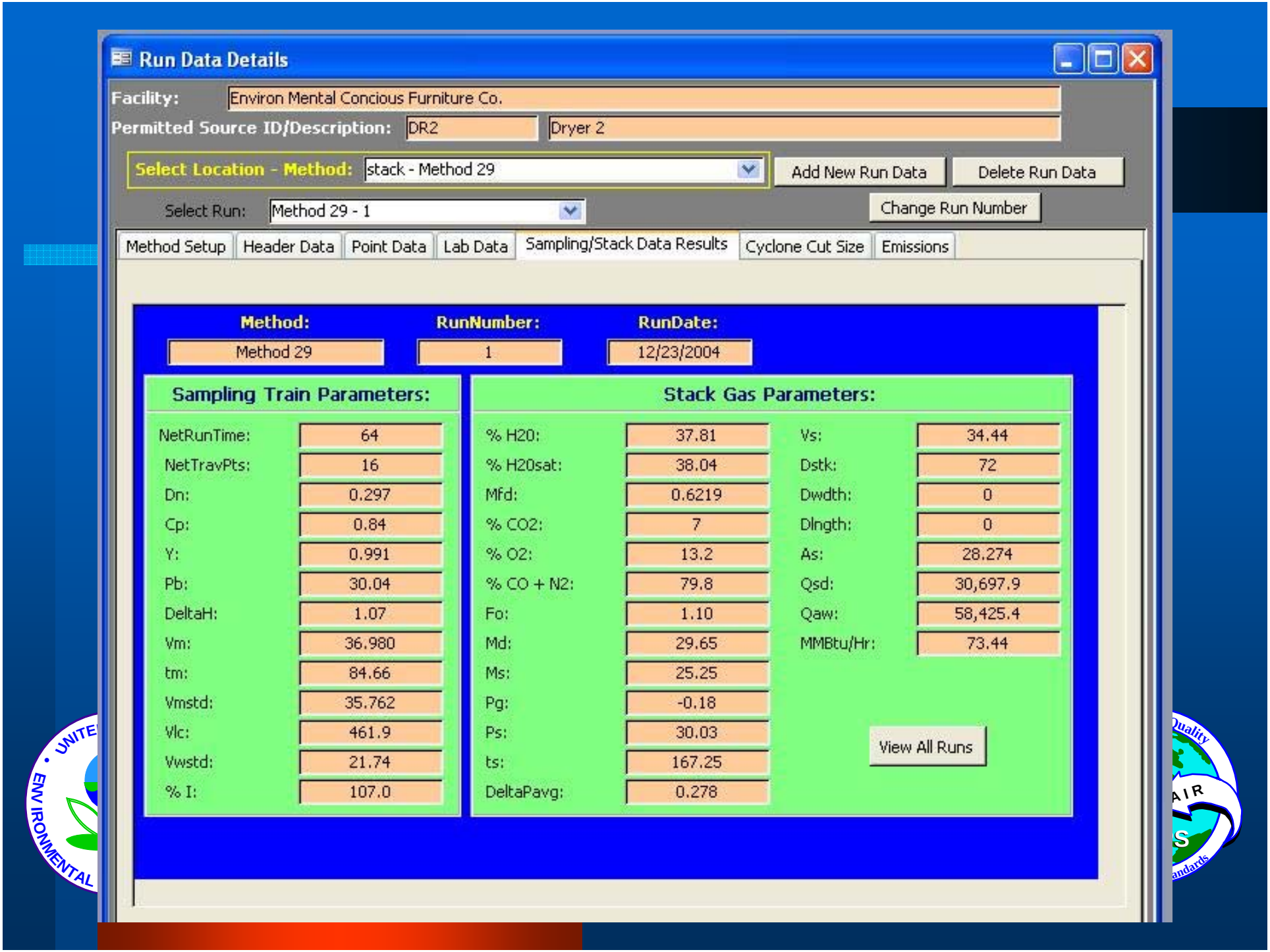

Run Data Details
Facility:
Environ Mental Concious Furniture Co.
Permitted Source ID/Description:
DR2
Dryer 2
Select Location - Method:
Select Run:
Method 25A - St-m25a
Method Setup
Calibrations
ITM Run Re
Compounds for this Location
Location
stack
Total organic co
Import Field Run Data
1.
Select Location
stack
Select Method
Method 29
2.
Select Spreadsheet File
D:\EF redirects\Electronic Reporting Tool\ERT_version3-final\ERT v3
3.
View/Edit Imported Records
4.
Add imports into main data table
Printed Reports
Test Plan
Test Plan Review
Test Report
Test Report
Report Signatures
Emission Factor Export
Imported Header Data
Location: Method: RunNumber: RunDate: JobNumber: Personnel: Pb: Pstatic: FilterNum1: FilterNum2: FilterNum3: ReagBox: Umbical:
stack Method 29 M5-1 6/28/2006 JobOne ews - 54321 30.04 -0.18 0
stack Method 29 M5-2 6/28/2006 JobOne ews - 54321 30.04 -0.18 0
stack Method 29 M5-3 6/28/2006 JobOne ews - 54321 30.04 -0.18 0
Imported Point Data
Location Method: Run # Job # Run Date Point Begin End Clock Gas Meter Velocity Stack Temp Dry Gas In. Dry Gas C
stack Method 29 M5-1 JobOne 6/28/2006 A1 0 4 12:02:00 PM 703.127 0.32 167 79
stack Method 29 M5-1 JobOne 6/28/2006 A2 4 8 12:06:00 PM 705.41145 0.32 168 80
stack Method 29 M5-1 JobOne 6/28/2006 A3 8 12 12:10:00 PM 707.6959 0.33 169 80
stack Method 29 M5-1 JobOne 6/28/2006 A4 12 16 12:14:00 PM 709.98035 0.33 169 81
stack Method 29 M5-1 JobOne 6/28/2006 A5 16 20 12:18:00 PM 712.2648 0.27 169 83
stack Method 29 M5-1 JobOne 6/28/2006 A6 20 24 12:22:00 PM 714.54925 0.27 169 84
stack Method 29 M5-1 JobOne 6/28/2006 A7 24 28 12:26:00 PM 716.8337 0.22 167 86
stack Method 29 M5-1 JobOne 6/28/2006 A8 28 32 12:30:00 PM 719.11815 0.22 166 87
stack Method 29 M5-1 JobOne 6/28/2006 B1 32 36 12:34:00 PM 721.4026 0.3 164 88
stack Method 29 M5-1 JobOne 6/28/2006 B2 36 40 12:38:00 PM 723.68705 0.3 168 89
stack Method 29 M5-1 JobOne 6/28/2006 B3 40 44 12:42:00 PM 725.9715 0.31 169 90
stack Method 29 M5-1 JobOne 6/28/2006 B4 44 48 12:46:00 PM 728.25595 0.31 169 91
Record: 10 of 53

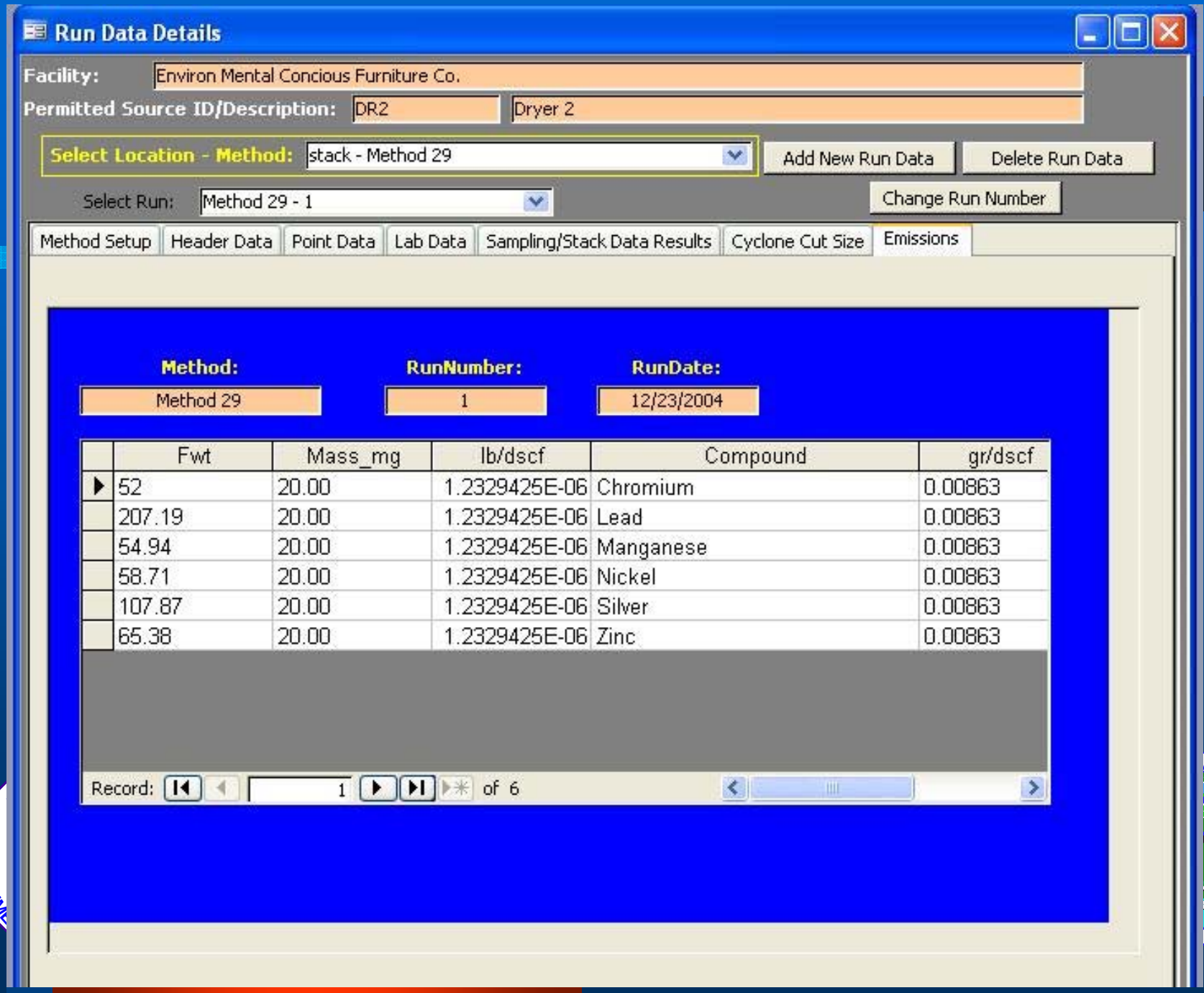
Test Report Data in ERT

- **Field test information is only stack gas information**
- **Laboratory data added to report**
- **Process data added to report**
- **Control device data added to report**



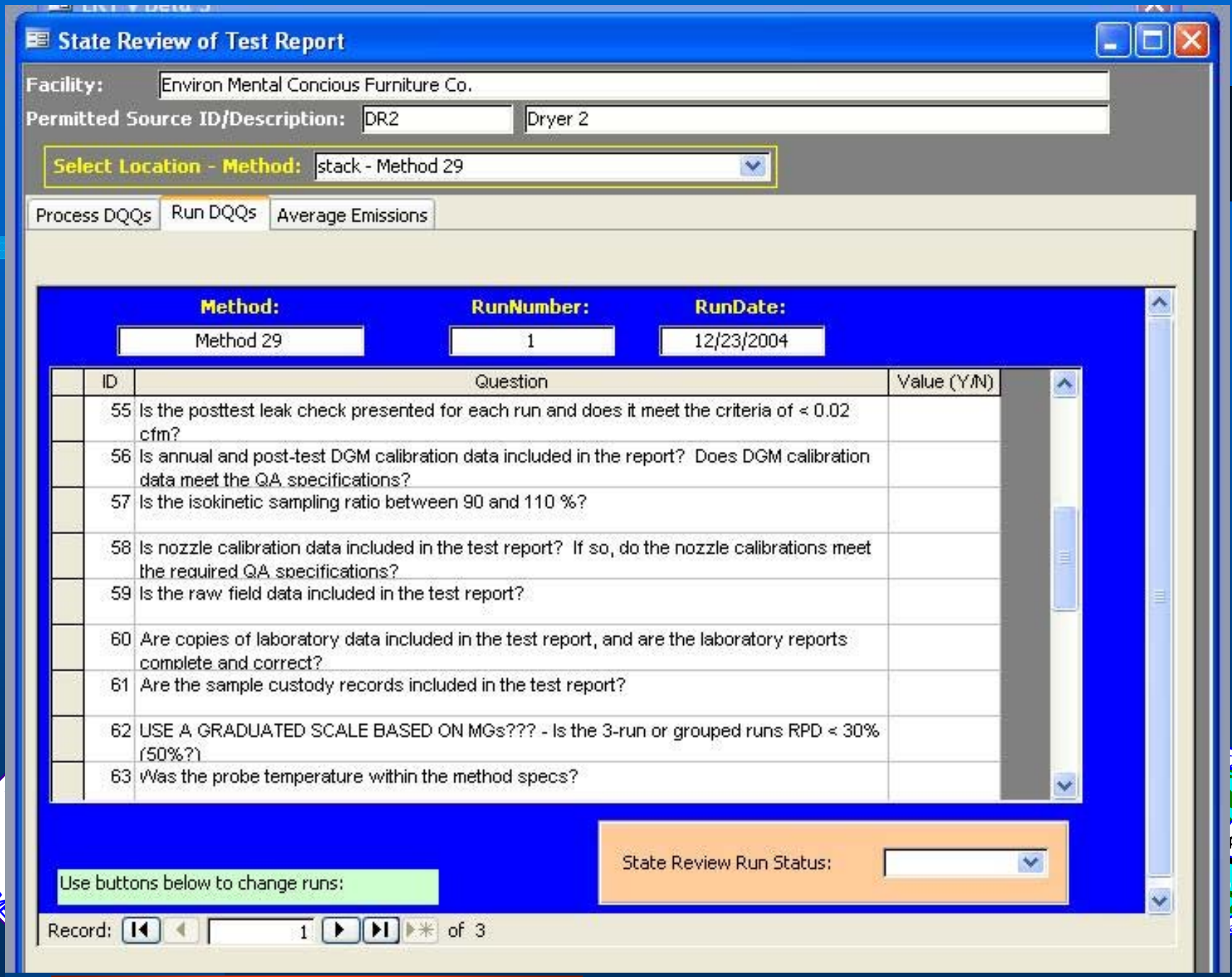
Point	BeginTime	EndTime	Clock	GasMeter	DeltaP	StackTemp	DryGasInlet
A1	0	4	12:02:00 PM	703.127	0.32	167	79
A2	4	8	12:06:00 PM	705.411	0.32	168	80
A3	8	12	12:10:00 PM	707.696	0.33	169	80
A4	12	16	12:14:00 PM	709.980	0.33	169	81
A5	16	20	12:18:00 PM	712.265	0.27	169	83
A6	20	24	12:22:00 PM	714.549	0.27	169	84
A7	24	28	12:26:00 PM	716.834	0.22	167	86
A8	28	32	12:30:00 PM	719.118	0.22	166	87
B1	32	36	12:41:00 PM	721.403	0.3	164	88
B2	36	40	12:45:00 PM	723.687	0.3	168	89
B3	40	44	12:49:00 PM	725.972	0.31	169	90
B4	44	48	12:53:00 PM	728.256	0.31	169	91
B5	48	52	12:57:00 PM	730.540	0.28	169	92
B6	52	56	1:01:00 PM	732.825	0.28	169	93


Run Data Details
Facility: Environ Mental Concious Furniture Co.
Permitted Source ID/Description: DR2 Dryer 2
Select Location - Method: stack - Method 29
Add New Run Data
Delete Run Data
Select Run: Method 29 - 1
Change Run Number
Method Setup
Header Data
Point Data
Lab Data
Sampling/Stack Data Results
Cyclone Cut Size
Emissions
Method: Method 29
RunNumber: 1
RunDate: 12/23/2004
Sampling Train Parameters:
NetRunTime: 64
NetTravPts: 16
Dn: 0.297
Cp: 0.84
Y: 0.991
Pb: 30.04
DeltaH: 1.07
Vm: 36.980
tm: 84.66
Vmstd: 35.762
Vlc: 461.9
Vwstd: 21.74
% I: 107.0
Stack Gas Parameters:
% H20: 37.81
% H20sat: 38.04
Mfd: 0.6219
% CO2: 7
% O2: 13.2
% CO + N2: 79.8
Fo: 1.10
Md: 29.65
Ms: 25.25
Pg: -0.18
Ps: 30.03
ts: 167.25
DeltaPavg: 0.278
Vs: 34.44
Dstk: 72
Dwdth: 0
Dlngth: 0
As: 28.274
Qsd: 30,697.9
Qaw: 58,425.4
MMBtu/Hr: 73.44
View All Runs


Run Data Details
Facility: Environ Mental Concious Furniture Co.
Permitted Source ID/Description: DR2 Dryer 2
Select Location - Method: stack - Method 29
Add New Run Data
Delete Run Data
Select Run: Method 29 - 1
Change Run Number
Method Setup
Header Data
Point Data
Lab Data
Sampling/Stack Data Results
Cyclone Cut Size
Emissions
Method: Method 29
RunNumber: 1
RunDate: 12/23/2004
Fwt | Mass_mg | lb/dscf | Compound | gr/dscf
52 | 20.00 | 1.2329425E-06 | Chromium | 0.00863
207.19 | 20.00 | 1.2329425E-06 | Lead | 0.00863
54.94 | 20.00 | 1.2329425E-06 | Manganese | 0.00863
58.71 | 20.00 | 1.2329425E-06 | Nickel | 0.00863
107.87 | 20.00 | 1.2329425E-06 | Silver | 0.00863
65.38 | 20.00 | 1.2329425E-06 | Zinc | 0.00863
Record: 1 of 6

Test Report Data Quality Evaluation

- **Evaluates primarily the availability of documentation of critical instrument calibration and field data elements**
- **Evaluates compliance with published FR test method requirements**

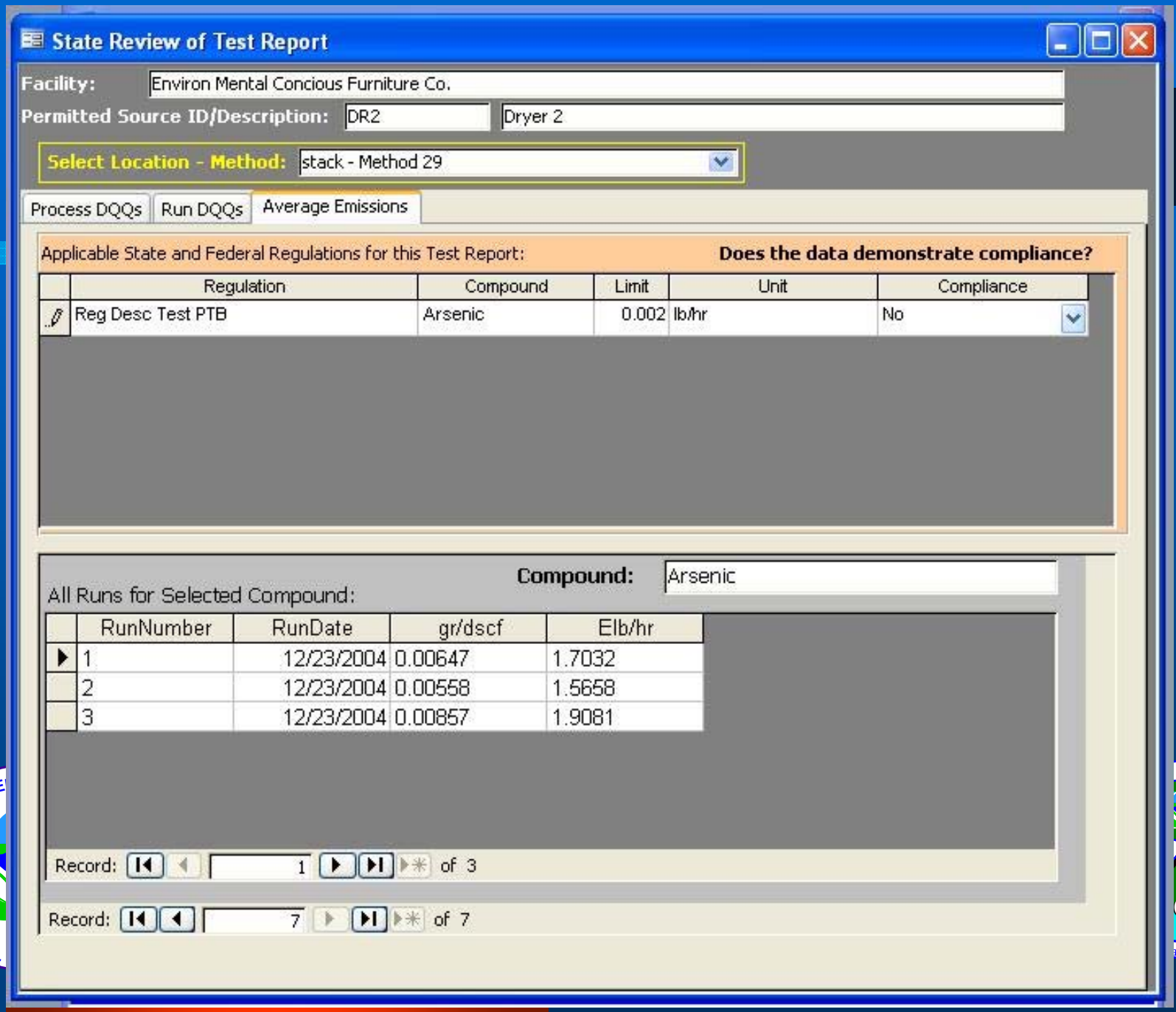

State Review of Test Report
Facility:
Environ Mental Concious Furniture Co.
Permitted Source ID/Description:
DR2
Dryer 2
Select Location - Method:
stack - Method 29
Process DQQs
Run DQQs
Average Emissions
Method:
RunNumber:
RunDate:
Method 29
1
12/23/2004
ID
Question
Value (Y/N)
55 Is the posttest leak check presented for each run and does it meet the criteria of < 0.02 cfm?
56 Is annual and post-test DGM calibration data included in the report? Does DGM calibration data meet the QA specifications?
57 Is the isokinetic sampling ratio between 90 and 110 %?
58 Is nozzle calibration data included in the test report? If so, do the nozzle calibrations meet the required QA specifications?
59 Is the raw field data included in the test report?
60 Are copies of laboratory data included in the test report, and are the laboratory reports complete and correct?
61 Are the sample custody records included in the test report?
62 USE A GRADUATED SCALE BASED ON MGs??? - Is the 3-run or grouped runs RPD < 30% (50%?)
63 Was the probe temperature within the method specs?
State Review Run Status:
Use buttons below to change runs:
Record:
1
of 3

Expanded QA Checklist?

Criteria Area	Review Questions
Completeness Review	Is a description of test location provided?
	Is a drawing of the test locations provided?
	Has a description of test methods used, including deviations from standard procedures, been provided?
	Has a detailed discussion of sampling conditions been provided?
	Is a schematic of each sampling train attached?
	Is a full description of the facility provided?
	Were the operating parameters for the process being tested reported?
	Are the parameters monitored by the facility to assess the performance of the control device described?
	Have all emissions tests specified in the test plan been performed?
Calibration Reports	Are the following reports attached?
	Manual Test Methods
	Dry gas meter pre-test calibration
	Dry gas meter post-test calibration
	Thermocouple and display calibration
	Pitot inspection records
	Nozzle inspection records
	Flow meter calibrations
	Instrumental Test Methods
	Instrumental method analyzer interference tests
	Response time tests
	System bias tests
	Converter efficiency tests

Expanded QA Checklist (cont)

Raw Data Reports	Are the following reports attached?
	Manual Test Methods
	Method 1 sample point evaluation
	Cyclonic flow checks
	Exhaust gas conditions
	Raw sampling data
	Field notes
	Description of the recovery procedures
	Complete laboratory report
	Chain of custody forms
	Flow diagram of sample analysis
	Instrumental Test Methods
	Stratification checks
	Raw data
	Sampling system flow and temperature logs
	Calibration gas certifications
	Calibration reports
	Complete description of the sampling system
	Process & Facility Operation
	Process operating parameter data
	Control device operating and monitoring parameter data
	A detailed discussion of the process and control device operation


State Review of Test Report
Facility: Environ Mental Concious Furniture Co.
Permitted Source ID/Description: DR2 Dryer 2
Select Location - Method: stack - Method 29
Process DQQs
Run DQQs
Average Emissions
Applicable State and Federal Regulations for this Test Report:
Does the data demonstrate compliance?
Regulation
Compound
Limit
Unit
Compliance
Reg Desc Test PTB
Arsenic
0.002
lb/hr
No
Compound: Arsenic
All Runs for Selected Compound:
RunNumber
RunDate
gr/dscf
Elb/hr
1 12/23/2004 0.00647 1.7032
2 12/23/2004 0.00558 1.5658
3 12/23/2004 0.00857 1.9081
Record: 1 of 3
Record: 7 of 7

ERT Availability & Future

- **On the CHIEF web site at**
  - **http://www.epa.gov/ttn/chief/ert/ert_tool.html**
- **Test Methods Addition**
  - **Method 18, 320, 321, 0010, 0031, ?**
- **Improved QA (automation and guidance)**
- **Submission capabilities**
  - **Through EPA's CDX by January 2012**
- **Legal signature capabilities**
  - **CROMERR compliance**

Open Discussion

- **QUESTIONS?**

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(919) 541-5407