

Via E-mail from jr@amanue.com
and US Mail from Jim Rosenberg
555 Davidson Road
Grindstone, PA 15442
December 22, 2016

Sara Rosiek
Director
Fayette County Office of Planning, Zoning and Community Development
Fayette County Courthouse
61 East Main Street
Uniontown, PA 15401

As residents of Springhill Twp who live nearby Compressor Station Springhill #2, and other concerned citizens of Fayette County, we are grateful that the Zoning Hearing Board has imposed conditions on Laurel Mountain Midstream under Resolution 10-20R granting a Special Exception for the operation of Springhill #2, and are extremely eager to see full compliance with all of these conditions. We are mindful that the ZHB's 6 month deadline for completion of the Emergency Response Plan under Condition 5 has not yet occurred, but would like to remind the Fayette County Office of Zoning, Planning, and Community Development of how important this is to nearby residents, and to indicate that, to our knowledge, no resident of Springhill Twp living near Springhill #2 has yet received a copy of the Evacuation Plan under Condition 5.

We would like to indicate our subjective opinion that the sound level from Springhill #2 has not been significantly mitigated by the asserted compliance with Condition 2; we would like to see photographic evidence concerning construction of the sound wall.

Finally, we have several issues with the report issued by LMM on 9/30/2016 under Condition 4 ("Report"). While we recognize that submission as an effort at compliance, we do not agree that compliance has in fact been achieved, and find the following deficiencies:

1. FLIR imagery (Condition 4d) was not submitted.

Report includes a "FLIR Camera Leak Detection Record" at page 19, giving useful metadata concerning FLIR imaging taken by LMM in compliance with its GP-5 permit. Condition 4d requires submission of copies of the actual imaging. We were expecting the Zoning Office would receive e.g. a DVD containing video files in .mp4 or some other video format. LMM is not in compliance with Condition 4 without such a submission.

2. Supplemental Spreadsheet data is missing.

Condition 4a specifically mentioned "Spreadsheet Reporting Guide for Conventional and Unconventional Midstream Natural Gas Compressor Station Emissions Reporting System" ("Guide" — here attached as Attachment 1). This document is available from DEP at:

http://files.dep.state.pa.us/Air/AirQuality/AQPortalFiles/Business%20Topics/Emission%20Inventory/marcellus/2015_Midstream_Air_Emissions_Spreadsheet_Guide.pdf

The data submitted by LMM in Report appears to include only the final calculations. For instance, Report on page 12 under Sub Facility 601, Venting/Blowdowns, includes emissions numbers, but not the material listed in Guide on page 11 under Venting/Blowdowns Worksheet, and similarly for the other worksheets.

Report at page 17 mentions two attachments:

LMM_2015_PADEP_AES_Sample_Emission_Calcs.pdf

Springhill_2015_Midstream_Air_Emissions_Worksheet.xlsx

However, *these attachments were not submitted to the Zoning Office*. These attachments must be submitted to the Zoning Office to achieve compliance with Condition 4.

3. Calculations resulting from GRI GlyCalc modeling appear to be missing.

There are comments from Rhonda Zawaski in Report indicating calculations are from GRI GlyCalc, but the emissions numbers for Sub Facility 401 and Sub Facility 402 do not seem to show this. Perhaps the most sensational issue at the ZHB 10-20R hearings was the astonishing number of 5.5 tons of emitted toluene submitted by LMM to DEP for the 2013 Air Emissions Inventory, which placed Springhill #2 at the top of all Oil & Gas infrastructure facilities in the entire state of Pennsylvania. LMM later testified that this number was off by a factor of 10 due to a data entry error entering numbers into GRI GlyCalc. One would think after this embarrassment, LMM would take some care with HAP calculations for its dehydrators. Instead, under Sub Facility 401 we see 0 and NO FACTOR AVAILABLE, and under Sub Facility 402, BTEX pollutants (listed separately from VOC) are unaccountably not listed at all. Perhaps the missing attachment showing GRI GlyCalc output (LMM_2015_PADEP_AES_Sample_Emission_Calcs.pdf, mentioned above) will cast light on this issue.

4. Data reporting is for the wrong period (we expected data covering operation times April – June 2016).

With the exception of the FLIR Camera Leak Detection Record on page 19, Report seems to contain data from just the last data set reported to DEP, covering calendar year 2015. DEP's emission inventory submissions are *yearly*. However, Condition 4 is clearly stated as requiring reporting *quarterly*. We therefore assume the reporting under Condition 4 should cover emissions and associated operation data for the previous quarter. The emissions data in Report seems to cover the period January – December 2015. We believe it should have covered April – June 2016.

5. Throughput numbers are implausibly identical from one month to the next.

Throughout Report, we are seeing identical numbers (to two decimal places!) for throughput from one month to the next for the same sub facility. This is completely implausible, and is not accurate reporting. Totally apart from the issue of whether run-times actually achieved a full 24 x 7, the number of days per month is not constant. If throughput for February, March, and April are identical to two decimal places, something is wrong here. However, the amount of down-time should *not* be set aside, and is an extremely important part of the reporting. There was testimony at the ZHB 10-20R hearings concerning siren-like noises causing significant disturbance to nearby residents. Our current understanding of these sounds is that they were starter-gas emissions resulting from failed attempts to restart one of the gas-fired compression engines. We believe these sounds continued into the first half of 2015. An engine that is failing restart repeatedly is achieving a throughput of *zero* during the period when it was not running. And why was the engine not running? Repeated requirements for restart is a warning sign that there may be a maintenance issue; a maintenance issue in turn may indicate that emission amounts differ from the manufacturer's specification for normal operation, and are thus highly significant in tracking air emissions.

Also, it appears that Sub Facilities 103 and 104 replaced Sub Facilities 101 and 102. From the throughput data one would infer this replacement occurred exactly at the stroke of midnight on the last day of June, 2015. This is quite unlikely. One would expect that for some month at the time of cutover to the "new" engines, throughput numbers should be reported for all four sub facilities.

Accurate actual (not estimated!) run-time reporting is essential for compliance with Condition 4. Surely LMM does have exact data concerning run-times. We expect such data to be reflected in the reporting.

We eagerly await a corrected submission by LMM of *correct and complete* data which achieve full compliance with Condition 4.

Sincerely,

Nelma Burns
COL. 3:17

Stan Burns

John J. Pyper 12/19/16

Kenneth Rose

Leah Bell

David Bell

Dylan Bell

Kevin Bell

Michelle Walworth

William D. Frazier

Susan Frazier

Linda Heasley

Wendy Heasley

Jean Heasley

Jerry L. Yeager

Bonnie Yeager

Phyllis Carr

Jeaney Carr

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James E. Donahue

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William D. Frazee
Susan Frazee
Linda Headley
David Headley
Grant Headley
Jerry L. Yeager
Bonnie Yeager
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Attachment 1

Commonwealth of Pennsylvania



Department of Environmental Protection

Bureau of Information Technology

Bureau of Air Quality

**Spreadsheet Reporting Guide for Conventional and Unconventional
Midstream Natural Gas Compressor Station Emissions Reporting
System**

Karen Kathryn Gee, Chief, Air Information Management Section

January 29, 2016

Table of Contents

Table of Contents	2
Supplemental Spreadsheet Reporting Guide.....	3
Contacts	3
Basic Steps	4
IMPORTANT CHANGE TO 2015 EMISSIONS INVENTORY	4
Workbook Structure	5
Summary worksheet	5
Source ID-Name worksheet	6
Pigging Operations Worksheet	6
Stationary Engines Worksheet.....	7
Heaters-Reboilers Worksheet.....	8
Tanks/Vessels Worksheet	8
Dehys (dehydration) Worksheet.....	9
Pneumatic Pumps Worksheet.....	10
Venting/Blowdowns Worksheet	11
Fugitives Worksheet	11
Do's and Don'ts.....	14

Supplemental Spreadsheet Reporting Guide

Using the steps and procedures specified in this document, you are reporting supplemental Midstream Natural Gas Compressor Station air data by filling out a spreadsheet and attaching it to your AES*Online or AES*XML submittal through the GreenPort. To do so, you must use Microsoft Excel 2007 or a more recent version.

The owners or operators of midstream facilities must submit emissions through the Department of Environmental Protection's AES*Online or AES*XML emission inventory system no later than March 1, 2016. This supplemental spreadsheet and other documents, including emissions factors and actual calculations, must be attached to the submittal. Facility owners or operators must request access to the Greenport by contacting Robert Bihl at rbihl@pa.gov or 717-772-3950 as soon as possible but no later than two weeks prior to accessing the system. Subsequent source reports and annual emissions inventories will be due to the Department by March 1 each year for operations during the preceding calendar year.

The *Basic Steps* section of this document outlines the typical procedures that must be followed to download your spreadsheet. Training for submittal through the GreenPort was provided during the week of December 1, 2015. If you need further assistance, please contact Robert Bihl at rbihl@pa.gov.

The *Workbook Structure* section of this document provides the procedures and data needed to validate and accept your data.

The *Do's and Don'ts* section provides guidelines that are essential for you to understand as you enter your Air Emissions data into the spreadsheet.

Contacts

Questions related to the emission inventory may be directed to the following:

Karen Gee, Chief
Air Information Section
Bureau of Air Quality
P.O. Box 8468
Harrisburg, PA 17105-8468
Telephone: 717-783-9241
E-mail: kgee@pa.gov

or

Sherry Bogart, Air Quality Program Specialist
Air Information Section
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P.O. Box 8468
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Telephone: 717-783-5974
E-mail: sbogart@pa.gov

Basic Steps

1. Begin by navigating to the following link and download the blank spreadsheet:

<http://www.dep.pa.gov/Business/Air/BAQ/BusinessTopics/Emission>

2. Your browser should present you with a dialog box from which you can save the workbook to the location of your choice on your computer. If your browser allows you to open the workbook directly without saving it to your local computer, **do not open it** since you would then only be opening a temporary copy. It is also a safe browsing practice to not open such files directly in your web browser. Always save the file to your local computer.
3. Open your local copy of the file using Microsoft Excel 2007 or a more recent version. Other spreadsheet products are not compatible with regards to dropdown lists inside the workbook.
4. Add data to your workbook according to the rules listed in the section titled *Workbook Structure* and in the *Tool Tips* located in each cell of the workbook. Save your workbook file locally on your computer.
5. Attach the spreadsheet and a second spreadsheet containing emissions calculations and emissions factors to the AES submittal through the GreenPort.
6. Pigging operations that are not included in the single-source determination for midstream compressor station must have their data submitted via e-mail, using the pigging spreadsheet located at <http://www.dep.pa.gov/Business/Air/BAQ/BusinessTopics/Emission>.
7. All data must be submitted by a Responsible Official, as defined in 25 Pa. Code §121.1 (definitions).

IMPORTANT CHANGE TO 2015 EMISSIONS INVENTORY

Beginning in the 2015 emissions inventory year, pigging operations must be included in inventory reporting to the DEP. The owner or operator of the pigging operation has the option of including it in either the compressor station closest to the pig launching station or the compressor station closest to the pig catcher. A separate tab is included for pigging operations this year. **The owners or operators of pigging operations that are not included in the single-source determination for midstream compressor station must submit their data via e-mail.** Separate instructions are available at the above website for these submittals.

Workbook Structure

The workbook that is downloaded consists of nine worksheets on which you must supply data. All items are required, unless otherwise noted. These worksheets are called *Summary*, *Source ID - Name*, *Pigging Operations*, *Stationary Engines*, *Heaters-Reboilers*, *Tanks-Vessels*, *Dehydrators*, *Pneumatic Pumps*, *Venting-Blowdowns*, and *Fugitives*.

Summary worksheet

The Summary worksheet is where all comments related to Air Emissions reporting will be entered by the operator.

The following fields are present in the Summary worksheet and their meanings are described:

Column Name	Description
PF ID	The DEP Primary Facility ID must be entered. This number is in the AES GreenPort data. If you are uncertain of what this number is, please contact the appropriate DEP Regional Office.
Primary Facility Name	The DEP Primary Facility Name, as it appears on the air permit application or general permit authorization application, must be entered. This entry is required and must be reported.
AQ Reporting Year	The AQ Reporting Year is pre-loaded at time of download of the Air Emissions workbook and set to the reporting period being submitted. This entry cannot be modified by the user.
Start Date	The Start Date is pre-loaded at time of download and determined by the AQ Reporting Year being submitted. This entry cannot be modified by the user.
End Date	The End Date is pre-loaded at time of download and determined by the AQ Reporting Year being submitted. This entry cannot be modified by the user.
Contact Name, address, phone number, and email address	The name of the person preparing the data for submittal. This does not have to be the responsible official.
Report Comments	Other comments the operator may have on the data submission for any of the worksheets are to be entered here.

Source ID-Name worksheet

The Source ID - Name Inventory Worksheet is where operators/owners will enter source (subfacility) name and ID.

Column Name	Description
AIMS Source ID –Name	This is the source or subfacility name and ID. A source or subfacility is defined as a piece of equipment within the primary facility. These entries are used by other worksheets as drop-down items.

Pigging Operations Worksheet

The following columns are present in the Pigging Operations Worksheet and their meanings are described:

Column Name	Description
AIMS Source ID –Name	This is the source or subfacility name and ID. A source or subfacility is defined as a piece of equipment within the primary facility. These entries are used by other worksheets as drop-down items.
Type	Pick either Launch or Receiving from the drop-down menu.
Chamber Length (Ft.)	Enter the length of the chamber in feet.
Chamber Diam. (Ft.)	Enter the diameter of the chamber in feet.
Volume of Chamber (Ft³)	The volume (cubic feet) of the chamber is calculated for you in the spreadsheet.
PSIG of Chamber	Enter the pounds per square inch, gage (PSIG).
Volume of Pressurized Gas (Ft³)	The volume of pressure gas (cubic feet) is calculated for you in the spreadsheet, using the formula for the Ideal Gas Law.
Temp. of Chamber	Enter the average yearly temperature of the chamber.
Molecular Weight of gas mixture (lb/lb-mole)	Enter the molecular weight of the gas mixture in pounds per pound-mole.
Compressibility Factor	Enter the compressibility factor.
Pressurized Density (lb/ft³)	The pressurized density is calculated for you in the spreadsheet.

Column Name	Description
Atmospheric Density (lb/ft³)	The atmospheric density is calculated for you in the spreadsheet.
Delta Density (lb/ft³)	The delta density is calculated for you in the spreadsheet.
Amount Gas Vented (lbs) Per Event	The amount of gas vented is calculated for you.
# of Events	Enter the number of gas venting event during the calendar year.
# of Purges Per Event	Enter the average number of purges for each gas venting event.
Total Amount Gas Vented (lbs)	The total amount of gas vented is calculated for you in the spreadsheet.

Stationary Engines Worksheet

The following columns are present in the Stationary Engines Worksheet, and their meanings are described.

Column Name	Description
AIMS Source ID –Name	This is a drop-down menu item related to the Station ID – Name Worksheet.
Engine Make	Enter the Make of Engine(s) air emissions are being reported on. Data in format of 1-25 characters.
Engine Model	Enter the Model of Engine(s) air emissions are being reported on. Data in format of 1-25 characters.
Engine Model Year	Enter the Model year of Engine(s) air emissions are being reported on. Data in format of 4 characters.
Engine Type	Select either Rich Burn or Lean Burn from Dropdown
Number of Engines	Enter a number of similar engines combined. Data in format of 1-99.
Fuel Type	Select one option from Dropdown.
Total Fuel Quantity	Enter Fuel Quantity number for similar engines combined between .01 and 999,999.99
Fuel % Sulfur	Enter percentage between 0 and 99.99 in the following format ##.##.

Column Name	Description
Total hp (hp)	Enter total horsepower for all engines combined between 0 and 999,999.99.
Average Load (%)	Enter average load for all engines combined between 0.01 and 100.00.
Total Hours (hrs)	Enter the total number of hours for all engines <u>combined</u> . Enter as whole number.
Emissions Factor Basis	Enter up to 50 characters (Manufacturer Spec./AP-42/Source Test/etc.).
Type of Control	Optional data entry: Enter up to 50 characters.

Heaters-Reboilers Worksheet

The following columns are present in the Heaters-Reboilers Worksheet and their meanings are described below:

Column Name	Description
AIMS Source ID –Name	This is a drop-down menu item related to the Station ID – Name Worksheet.
Heater/ Reboiler Hours	Enter total hours as whole number.
Total MMBTU/hr	Enter number between .01 and 99,999.99.
Number of Units	Enter how many heaters and how many reboilers are on site.

Tanks/Vessels Worksheet

The following columns are present in the Tanks/Vessels Worksheet and their meanings are described below:

Column Name	Description
AIMS Source ID –Name	This is a drop-down menu item related to the Station ID – Name Worksheet.
Unit Type	Select either Tank, Impoundments, or Pressurized Vessels from Dropdown.
Number of Units	Enter number between 1 and 999.

Column Name	Description
Total Hours Operated (hrs)	Enter Hours as whole number.
Controlled	Select either Y or N from Dropdown.
Control Type	If you chose "Y" for Controlled, then you must select an option from list of options. Select either VRU, Flared, or Other from Dropdown. If Other, please explain in comments on Summary sheet.
Total Hours of Controlled Operations (hrs)	If you choose "Y" for Controlled then enter Hours as whole number.

Dehys (dehydration) Worksheet

The following columns are present in the Dehys Worksheet and their meanings are described below:

Column Name	Description
AIMS Source ID –Name	This is a drop-down menu item related to the Station ID – Name Worksheet.
Gas Processed (mcf)	Enter thousand cubic feet as a whole number between 1 and 99,999,999.
Dehydration Unit design Rating (MMSCFD)	Enter million standard cubic feet per day as a whole number between 1 and 99,999,999.
Actual Operating Hours (hrs)	Enter Hours as whole number between 1 and (days between Start Date and End Date) * 24.
Actual Lean Glycol Circulation Rate (gpm)	Enter gallons per minute as a whole number between 1 and 99,999,999.
Controlled	Data Entry Required: Select either Y or N from Dropdown.
Control Type	If you chose "Y" for Controlled, then you must select an option from list of options. Select either VRU, Flared, or Other from Dropdown list. If you choose Other, please explain in the Summary sheet.
Total Hours of Controlled Operations (hrs)	If you choose "Y" for Controlled then enter Hours as whole number.

Pneumatic Pumps Worksheet

The following columns are present in the Pneumatic Pumps Worksheet and their meanings are described below:

Column Name	Description
AIMS Source ID –Name	This is a drop-down menu item related to the Station ID – Name Worksheet.
Gas Processed (mcf)	Enter thousand cubic feet as a whole number between 1 and 99,999,999
Condensate Processed (bbls)	Enter barrels as a whole number between 0 and 99,999,999.
Unit Type	Choose the unit type from the drop-down list. Pumps, Controllers, and Valves are the options.
Number of Devices	Enter the number between 1 and 999.
Total Operated Hours	Enter Hours as whole number between 1 and ((days between Start Date and End Date)* Number of Pumps) * 24.
Controlled	Select either Y or N from Dropdown list.
Control Type	If you chose "Y" for Controlled, then you must select an option from list of options. Select either VRU, Flared or Other from Dropdown list. If you choose Other, please explain in the Summary sheet.
Total Hours of Controlled Operations (hrs)	If you choose "Y" for Controlled then enter Hours as whole number.

Venting/Blowdowns Worksheet

The following columns are present in the Venting/Blowdowns Worksheet and their meanings are described below:

Column Name	Description
AIMS Source ID –Name	This is a drop-down menu item related to the Station ID – Name Worksheet.
Number of Blowdowns	Enter the number between 1 and 999.
Average Blowdown rate (scf/hr)	Enter standard cubic feet per hour as a whole number between 1 and 99,999,999.
Average Blowdown Length (hrs)	Enter Hours as whole number between 1 and (days between Start Date and End Date) * 24.
Controlled	Select either Y or N from Dropdown list.
Control Type	If you choose "Y" for Controlled then you must select an option from list of options. Select either VRU or Flared from Dropdown.
Total Hours of Controlled Operations (hrs)	If you chose "Y" for Controlled, then enter Hours as whole number.

Fugitives Worksheet

The following columns are present in the Fugitives worksheet and their meaning is described:

Column Name	Description
AIMS Source ID –Name	This is a drop-down menu item related to the Station ID – Name Worksheet.
Component Type	Select a component type from dropdown list.
Product	Select a product from dropdown list.
Component Count	Enter the number of this type of component as a whole number between 1 and 999,999.
Operating Days per year	Enter days as whole number between 1 and (days between Start Date and End Date).
See Emissions Calculations	Follow this link to see how DEP will calculate the emissions for these components.

Column Name	Description
	NOTE: If you disagree with these calculations, you may enter your own calculations. If you choose to enter your own values, then you must enter values for all of the remaining fields. Please include these calculations on your calculation spreadsheet that is submitted to DEP with this supplementary sheet in AES.

When user clicks the **See Emissions Calculations** link within the spreadsheet the following screen is shown with the DEP Calculation results. Below is just an example of what the screen could look like.

The screenshot displays the Pennsylvania Department of Environmental Protection (DEP) website interface for the DEP Oil and Gas Reporting - Electronic system. The header includes the Pennsylvania logo and the text "DEPARTMENT OF ENVIRONMENTAL PROTECTION". Navigation links for "PA STATE AGENCIES" and "ONLINE SERVICES" are visible, along with the name of the Governor, Michael Krancer. The main title of the page is "DEP Oil and Gas Reporting - Electronic".

The primary section is titled "DEP FUGITIVES AIR EMISSION CALCULATION". A yellow highlighted box contains a note: "NOTE: The values shown below are the values DEP will calculate after the spreadsheet is submitted. If the user does not accept the calculated values, the user must:" followed by two bullet points:

- Manually enter their calculated values for every emission column on the fugitives tab.
- Describe how the emissions were calculated in the comments field on the Summary tab.

Below the note is the "Input Values" section, which shows:

- Component Type: Connector
- Component Count: 365
- Product Type: Gas
- Operating (day / year): 100

The "THC Leak Factor" section provides the formula: <http://www.epa.gov/ttn/chief/efdocs/equiplks.pdf> and the calculated value: "THC Leak Factor (lb/day/component): 0.011000".


The "Emissions" section explains the formula used: "The formula used to calculate the emissions for each pollutant is as follows. (((Component Count * THC leak Factor) * Weight Fraction) * Operating Days)/2000 = Tons". It then lists the results:

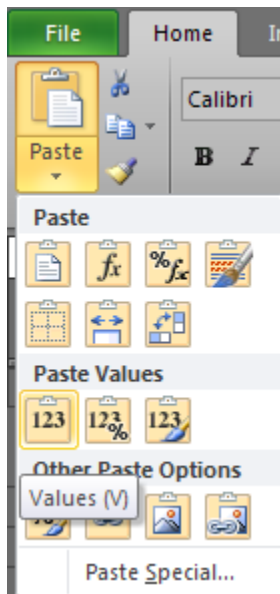
- VOCs Weight Fraction: 0.083800
- VOCs Tons: 0.01682
- Methane Weight Fraction: 0.813200
- Methane Tons: 0.16325

Ethane Weight Fraction: 0.086400	Ethane Tons: 0.01734
Propane Weight Fraction: 0.037500	Propane Tons: 0.00753
i-Butane Weight Fraction: 0.011600	i-Butane Tons: 0.00233
n-Butane Weight Fraction: 0.010200	n-Butane Tons: 0.00205
Pentane Weight Fraction: 0.009400	Pentane Tons: 0.00189
Methyl- & Cyclo- Hexanes Weight Fraction: 0.002500	Methyl- & Cyclo- Hexanes Tons: 0.00050
n-Hexane Weight Fraction: 0.002000	n-Hexane Tons: 0.00040
Benzene Weight Fraction: 0.000600	Benzene Tons: 0.00012
Toluene Weight Fraction: 0.001400	Toluene Tons: 0.00028
Ethyl-Benzene Weight Fraction: 0.000000	Ethyl-Benzene Tons: 0.00000
Xylene Weight Fraction: 0.000900	Xylene Tons: 0.00018
Heptane Weight Fraction: 0.005200	Heptane Tons: 0.00104
Octane Weight Fraction: 0.001200	Octane Tons: 0.00024
Nonane Weight Fraction: 0.000400	Nonane Tons: 0.00008
2,2,4-Trimethylpentane Weight Fraction: 0.000200	2,2,4-Trimethylpentane Tons: 0.00004
Decane + Weight Fraction: 0.000700	Decane + Tons: 0.00014

Do's and Don'ts

- **Do not** add columns or modify column headers in any worksheet.
- **Do not** add data anywhere outside the provided columns. It will be ignored.
- **Do not** expect Microsoft Excel to validate your data when you copy and paste cell values from one worksheet to another. The product does not support data validations on copy/paste operations.
- **Do not** use Microsoft Excel standard copy/paste. If you do so, you will lose all local validations and dropdown list values. Instead, **do** use copy/paste values. This is represented (in Microsoft

Excel 2010) as the paste icon with a simple 123 symbol on a clipboard, as in:  See the Paste Values section:



- **Do not** edit your workbook using multiple versions of Microsoft Excel. If you begin editing using Excel 2010, for instance, do not later try to use it in an earlier version such as Excel 2007. The versions are not compatible.
- **Do** use either Microsoft Excel 2010 for Windows (recommended) or Microsoft Excel 2007 for Windows. Those are the only versions for which the workbook export/import has been tested. Earlier versions will not work. Versions for other operating systems and spreadsheet products other than Microsoft Excel are not supported as they are not compatible with the data validations that have been built into your workbook.