

Oil and Gas Emissions Spreadsheet Changes Made From May 2013 to November 2013 Version

General/Major Changes

Included new sheet tabs for MSS activities listed in §106.395 (b)(1)-(b)(6) and paint and blast operations to aid applicants from oil and gas industries to comply with the future MSS application compliance date (January 5, 2014).

- The facility information sheet is updated to include MSS default emissions and MSS emissions from paint and blast operations. .
- Included the following sheet tabs into the spreadsheet:
 - ***MSS_Defaults*** - This section will populate default emissions for MSS activities listed in §106.395 (b)(1)-(b)(6). Default numbers are included for convenience but may be edited.
 - ***MSS_Paint_Blast*** - This section will provide default emissions for painting and blasting. Default numbers are included for convenience but may be edited
- Updated the final emissions summary sheet tab to reflect the changes made.
- Instructions and explanations are added throughout the spreadsheet, both as text and comments in order to guide the user and make the spreadsheet as easy as possible to use.

Specific/Minor Changes

- Updated formulas for the following parameters in the ***MSS FLR Tank Landing Loss-1*** tab:
 - Corrected boundary conditions for K_S (Standing Idle Saturation Factor) to match AP-42 Section 7.1, Equation 1-20.
 - Corrected boundary conditions for L_{SL} (Standing Idle Loss) to match AP-42 Section 7.1, Equation 2-13.
 - Corrected boundary conditions for L_{SL} (Drain Dry Standing Idle Loss) to match AP-42, Section 7.1, Equation 2-23.
 - Updated formula for product of filling saturation factor, S , and filling saturation correction factor, C_{SF} to match AP-42 Section 7.1.
- Updated the ***MSS Blowdowns*** tab to account for the H_2S control efficiency.
- Updated ***MSS Tank non-forced Vent*** tab to revise the maximum and average hourly emission calculations.
- Used $PI()$ function in MSS sheet tabs instead of approximating PI as 3.14.

- ***Emissions summary*** sheet tab is updated to retrieve the uncaptured emissions from the ***Loading*** sheet tab when option “B” is selected under control device.
- Total emissions heading in ***Vapor Recovery Units*** sheet tab is changed to “Vapor Combustor Total Emissions.”