

Oil and Gas Emissions Spreadsheet Changes Made From January 2012 to April 2012 Version

- On the **Facility Information tab**, the revision date is updated.
- On the **IC Engines tab**:
 - The AP-42 emission factors for PM₁₀ and PM_{2.5} are updated to include condensable PM and a comment is added to each of the six cells with the factors listed explaining this.
 - Before the change, the PM₁₀(filterable) and PM_{2.5}(filterable) factors were used (which are equal) for each engine type. The change is adding the PM Condensable factors to each of the filterable factors.
 - For 2 stroke, lean-burn engines, the PM₁₀ and PM_{2.5} factors are changed from 0.0384 to 0.04831 lb/MMBtu.
 - For 4 stroke, lean-burn engines, the PM₁₀ and PM_{2.5} factors are changed from 0.0000771 to 0.0099871 lb/MMBtu.
 - For 4 stroke, rich-burn engines, the PM₁₀ and PM_{2.5} factors are changed from 0.0095 to 0.01941 lb/MMBtu.
 - A comment is added to the PM₁₀ and PM_{2.5} cells which says:
 - “If using AP-42 factors and calculating PM₁₀ and/or PM_{2.5} emissions results in overly conservative emission rates, you may want to consider the following options for establishing more representative PM₁₀/PM_{2.5} emission factors.
 - Use manufacturer-specific sampled PM₁₀/PM_{2.5} factors which include condensables.
 - Sample engine PM₁₀/PM_{2.5} emissions by performing a stack test.
 - Contact the TCEQ Air Permits Division to establish an appropriate PM₁₀/PM_{2.5} control efficiency when an engine is equipped with catalyst control.”
 - The formula is fixed in the “appropriate AP-42 factor” column.
 - The 2-stroke, lean-burn factor was not being pulled in correctly because written in the formula was “2 Stroke” where it should have been “2 Stroke, Lean-Burn.” The wording “, Lean-Burn” is now added into the formula after “2 Stroke.”
 - On the **Is Full Impacts Review Required Tab**, the NO₂ formula for part (3) of the review (which is based on project maximum predicted concentrations) is corrected. Before the change, the formula incorrectly referenced a blank cell when it should have been referencing the cell with the 1-hr NO₂ NAAQS value in it.