

Appendix 3 Air Quality

Air Quality Emission Calculations

Construction

The URBEMIS model air quality emission calculations provided by the applicant for the construction emissions were reviewed and were revised to incorporate two specific changes.

- The applicant assumed the URBEMIS default fugitive dust emission category for site grading and used the average conditions emission factor of 10 lbs/day/acre. However, the project is located in a very windy area as is clearly indicated by it being adjacent to a wind power farm. Therefore, the use of the worst-case condition emission factor of 38.2 lbs/day/acre is more appropriate given the windy conditions of the project site area.
- The fugitive dust mitigation for watering, 3 times per day giving a 68% emission reduction, was added.

The revision of these two factors was conducted for the metering station pipeline construction URBEMIS model run conducted by the applicant. The applicant did not provide URBEMIS model runs for the construction activities within BAAQMD's jurisdiction (flowline construction, grading and well pad construction, well drilling, and compressor station construction), so the results from the URBEMIS model runs conducted for the similar construction activities for Phase I of the project were used again as previously modified for the Phase I IS/MND.

Operations

The emission calculations for the two compressor engines and the glycol dehydration system heater were reviewed and were revised to incorporate two specific changes.

- The annual emissions were revised to reflect the assumption that the annual operation of the engines and heater would be 60% load.
- A review of the engine SO_x and PM₁₀ emissions found that they were not properly calculated using the basis stated, so were recalculated using AP-42 Section 3.2 emission factors for 4-stroke lean-burn engines.