

## For Emission Calculations

Emission calculations for turbines are too case specific for generic calculation methods. Emissions calculations should be based on emission guarantees from the turbine manufacturer. These emission guarantees are normally represented in parts per million (ppm) and possibly in lb/MMBtu. The emissions should also be given in lb/hr and tpy based upon turbine load, ambient temperature for the proposed site elevation.

Short term or hourly emission rates should be based on representative worst case conditions for each air contaminant. Normally a cold day and full load are representative conditions for NO<sub>x</sub> but for CO it could be low load conditions on a hot day, for example.

Annual rates should be based on the hours of operation proposed at a more reasonable hourly rate based on average conditions.

Most applications contain a spread sheet that shows multiple loads that cover the proposed operating range of the units and temperatures that are representative of the temperature range at the location.

Please contact a member of the Combustion Team at (512) 239-1250 for additional guidance.