

# Guidance on the Records Needed to Support Emissions Estimation for Area and Mobile Sources to Generate Emission Credits September 6, 2017

Type of Area Source Facility/Activity	Examples of Records Needed for Emissions Estimation
Solvent use and surface coating	<p>Solvent/coating quantity and type by paint booth/application area on a daily basis</p> <p>Material Safety Data Sheet (MSDS), specification sheet, or other data on Volatile Organic Compound (VOC) content, composition, and solids content</p> <p>Work practices for coating, cleanup, storage, etc.</p>
Storage tanks	<p>Storage start and end dates for the two historical adjusted emissions years and the State Implementation Plan year</p> <p>Liquid throughput and average amount in tank</p> <p>Storage temperature</p> <p>Liquid identity (product stored)</p> <p>Emission factor</p> <p>Tank type, size and configuration</p> <p>Tank working and breathing emission estimation program inputs and results (full report)</p> <p>Site-specific gas and liquid analysis reports*</p> <p>Notation if product characterization values are site specific</p> <p>API gravity and Reid Vapor Pressure (RVP) for produced or refined petroleum products</p> <p>Gas/oil ratio (GOR) value and source of GOR value (measured, simulator, other) for produced oil and condensate</p> <p>Method used for determining working, breathing and flash emissions (Tanks 4.0, E&amp;P Tanks, AP-42 Section 7.1, etc.) and full report or calculations from method</p> <p>Crude oil/Condensate tanks: monthly oil/condensate throughput, lease numbers supplying the tank, uncontrolled emission estimation method, and measurement or computer simulation results (full report)</p> <p>Landing events, control method and efficiency, if applicable</p> <p>Control device type and percent efficiency, if applicable</p>
Tank truck/railcar loading	<p>Liquid annual throughput</p> <p>Temperature of liquid at the time of loading</p> <p>VOC molecular weight</p> <p>Liquid vapor pressure</p> <p>Type of loading for each loading operation</p> <p>Vapor capture/control systems type and capture/control efficiency</p>
Fugitives	<p>Gas and liquid analysis reports*</p> <p>Number of components by type (note that pneumatics should be separated out from other components)</p> <p>Emissions factors, by component type and source of the emission factor (e.g., AP-42, monitoring data)</p> <p>Inspection, monitoring, and repair (LDAR) information and correlation equations used to determine emissions</p>

Type of Area Source Facility/Activity	Examples of Records Needed for Emissions Estimation
Glycol dehydrators	Wet gas analysis* Lab analysis of enriched/lean glycol samples* Glycol recirculation rate Hours of operation, temperature, and pressure settings Design documents GRI-GlyCalc full report or other process simulator results Control on still vent and whether captured materials are kept as product or burned Flash tank pressure, temperature, and control device type and efficiency (if applicable)
Oil well heaters	Fuel consumption Fuel heating value Emission test full report Emission factors Operating hours Design capacity
Natural gas fired engines	Engine make, model, rating, manufacturer's specifications Typical operating horsepower Engine emission full test report Emission factors Actual Fuel consumption and fuel heating value Brake horsepower specific fuel consumption Fuel type Operating hours Emissions monitoring data Control device type (e.g., catalytic converter) and efficiency
Turbines	Fuel type, actual fuel usage, heating value Operating hours Emissions testing full report Emissions factors Emissions monitoring data or operating parameter monitoring data Design capacity
Vapor controls	Vapor capture system/control device type and capture and destruction efficiencies Control device design calculations Operating parameters, conditions (including flow rate and stream's speciated VOC content) Monitoring, maintenance information Flares: design verification testing records, hours when site is manned

\*Analysis must include speciated VOC data for individual compounds and all Hazardous Air Pollutants (C10+ may be grouped). If site-specific analysis is not available, see TCEQ guidance on criteria for determining a representative analysis.

Mobile Source Activities	Examples of Records Needed for Emissions Estimation
Repowering Technologies Replacing Older Vehicles Marine Vessel Repowering	Vehicle category, description, make, model, model year Vehicle Identification Number (VIN) Engine identification number, make, model, manufacture year Gross Vehicle Weight Rating Fuel type Usage range Engine family or test group name/code Fuel usage, mileage, hours Load factors Route data
On-road or Off-road Fuel Switching	Vehicle category, description, make, model, model year Fuel type Engine family or test group name/code Fuel capacity in gallons equivalent Certified emissions (grams per brake horsepower-hour or grams per mile) Fuel usage, mileage, hours Load factors Route data
Marine Vessel Clean Fuels	Engine make, model, manufacture year Fuel type Engine family or test group name/code Fuel capacity in gallons equivalent Certified NOx emissions Fuel usage, hours Load factors
Upgrade/Retro-fit Auxiliary Motors/Units	Engine make, model, manufacture year Engine Horsepower/AMP Engine family or test group name/code Certified NOx emissions Actual Fuel usage, actual mileage, actual hours of operation Load factors Route data
Idling Reduction - Auxiliary Power Units	Engine make, model, manufacture year Engine Horsepower/AMP Engine family or test group name/code Certified NOx emissions Actual Fuel usage, actual hours of operation Load factors