(g) A process that solely distills or recycles waste solvent that contains a petrochemical is not part of the petrochemical production source category.

§ 98.241 Reporting threshold.
You must report GHG emissions under this subpart if your facility contains a petrochemical process as specified in § 98.240, and the facility meets the requirements of either § 98.2(a)(1) or (2).

§ 98.242 GHGs to report.
You must report the information in paragraphs (a) through (c) of this section:

(a) CO$_2$, CH$_4$, and N$_2$O process emissions from each petrochemical process unit. Process emissions include CO$_2$ generated by reaction in the process and by combustion of process off-gas in stationary combustion units and flares.

(1) If you comply with § 98.243(b) or (d), report under this subpart the calculated CO$_2$, CH$_4$, and N$_2$O emissions for each stationary combustion source and flare that burns any amount of petrochemical process off-gas. If you comply with § 98.243(b), also report under this subpart the measured CO$_2$ emissions from process vents routed to stacks that are not associated with stationary combustion units.

(2) If you comply with § 98.243(c), report under this subpart the calculated CO$_2$ emissions for each petrochemical process unit.

(b) CO$_2$, CH$_4$, and N$_2$O combustion emissions from stationary combustion units.

(1) If you comply with § 98.243(b) or (d), report these emissions from stationary combustion units that are associated with petrochemical process units and burn only supplemental fuel under subpart C of this part (General Stationary Fuel Combustion Sources) by following the requirements of subpart C.

(2) If you comply with § 98.243(c), report CO$_2$, CH$_4$, and N$_2$O combustion emissions under subpart C of this part (General Stationary Fuel Combustion Sources) by following the requirements of subpart C for all fuels, except emissions from burning petrochemical process off-gas in any combustion unit, including units that are not part of the petrochemical process unit, are not to be reported under subpart C of this part. Determine the applicable Tier in subpart C of this part (General Stationary Fuel Combustion Sources) based on the maximum rated heat input capacity of the stationary combustion source.

(c) CO$_2$ captured. You must report the mass of CO$_2$ captured under subpart PP of this part (Suppliers of Carbon Dioxide (CO$_2$)) by following the requirements of subpart PP.

§ 98.243 Calculating GHG emissions.

(a) If you route all process vent emissions and emissions from combustion of process off-gas to one or more stacks and use CEMS on each stack to measure CO$_2$ emissions (except flare stacks), then you must determine process-based GHG emissions in accordance with paragraph (b) of this section. Otherwise, determine process-based GHG emissions in accordance with the procedures specified in paragraph (c) or (d) of this section.

(b) Continuous emission monitoring system (CEMS). Route all process vent emissions and emissions from stationary combustion units that burn any amount of process off-gas to one or more stacks and determine GHG emissions as specified in paragraphs (b)(1) through (3) of this section.

(1) Determine CO$_2$ emissions from each stack (except flare stacks) according to the Tier 4 Calculation Methodology requirements in subpart C of this part.

(2) For each stack (except flare stacks) that includes emissions from combustion of petrochemical process off-gas, calculate CH$_4$ and N$_2$O emissions in accordance with subpart C of this part (use Equation C–10 and the “fuel gas” emission factors in Table C–2 of subpart C of this part).

(3) For each flare, calculate CO$_2$, CH$_4$, and N$_2$O emissions using the methodology specified in § 98.253(b)(1) through (3).