(4) Beginning and end of year inventories for calcined lime byproducts or wastes sold, by type.

(5) Annual amount of calcined lime byproduct or waste sold, by type (tons).

(6) Annual amount of lime product sold, by type (tons).

(7) Annual amount of calcined lime byproduct or waste that is not sold, by type (tons).

(8) Annual amount of lime product not sold, by type (tons).

(b) If a CEMS is not used to measure CO\(_2\) emissions, then you must report the information listed in paragraphs (b)(1) through (17) of this section.

(1) Annual CO\(_2\) process emissions from all lime kilns combined (metric tons).

(2) Monthly emission factors (metric ton CO\(_2\)/ton lime product) for each lime product type produced.

(3) Monthly emission factors for each calcined byproduct or waste by lime type that is sold.

(4) Standard method used (ASTM or NLA testing method) to determine chemical compositions of each lime type produced and each calcined lime byproduct or waste type.

(5) Monthly results of chemical composition analysis of each type of lime product produced and calcined byproduct or waste sold.

(6) Annual results of chemical composition analysis of each type of lime byproduct or waste that is not sold.

(7) Method used to determine the quantity of lime produced and/or lime sold.

(8) Monthly amount of lime product sold, by type (tons).

(9) Method used to determine the quantity of calcined lime byproduct or waste sold.

(10) Monthly amount of calcined lime byproduct or waste sold, by type (tons).

(11) Annual amount of calcined lime byproduct or waste that is not sold, by type (tons).

(12) Monthly weight or mass of each lime type produced (tons).

(13) Beginning and end of year inventories for each lime product that is produced.

(14) Beginning and end of year inventories for calcined lime byproducts or wastes sold.

(b) If a CEMS is not used to measure CO\(_2\) emissions, then you must report the information listed in paragraphs (b)(1) through (17) of this section.

(i) The annual amount of CO\(_2\) captured for use in the on-site process.

(ii) The method used to determine the amount of CO\(_2\) captured.

§ 98.198 Definitions.

All terms used in this subpart have the same meaning given in the Clean Air Act and subpart A of this part.

TABLE S–1 TO SUBPART S OF PART 98—BASIC PARAMETERS FOR THE CALCULATION OF EMISSION FACTORS FOR LIME PRODUCTION

<table>
<thead>
<tr>
<th>Variable</th>
<th>Stoichiometric ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>(SR_{\text{CaO}})</td>
<td>0.7848</td>
</tr>
<tr>
<td>(SR_{\text{MgO}})</td>
<td>1.0918</td>
</tr>
</tbody>
</table>

Subpart T—Magnesium Production

SOURCE: 75 FR 39761, July 12, 2010, unless otherwise noted.

§ 98.200 Definition of source category.

The magnesium production and processing source category consists of the following processes:

(a) Any process in which magnesium metal is produced through smelting (including electrolytic smelting), refining, or remelting operations.
§ 98.203 Calculating GHG emissions.

(b) You must report under subpart C of this part (General Stationary Fuel Combustion Sources) the CO₂, N₂O, and CH₄ emissions from each combustion unit by following the requirements of subpart C.

§ 98.203 Calculating GHG emissions.

(a) Calculate the mass of each GHG emitted from magnesium production or processing over the calendar year using either Equation T–1 or Equation T–2 of this section, as appropriate. Both of these equations equate emissions of cover gases or carrier gases to consumption of cover gases or carrier gases.

(1) To estimate emissions of cover gases or carrier gases by monitoring changes in container masses and inventories, emissions of each cover gas or carrier gas shall be estimated using Equation T–1 of this section:

\[ E_x = (I_{b,x} - I_{e,x} + A_x - D_x) \times 0.001 \]  

Where:

- \( E_x \): Emissions of each cover gas or carrier gas, \( X \), in metric tons over the reporting year.
- \( I_{b,x} \): Inventory of each cover gas or carrier gas stored in cylinders or other containers at the beginning of the year, including heels, in kg.
- \( I_{e,x} \): Inventory of each cover gas or carrier gas stored in cylinders or other containers at the end of the year, including heels, in kg.
- \( A_x \): Acquisitions of each cover gas or carrier gas during the year through purchases or other transactions, including heels in cylinders or other containers returned to the magnesium production or processing facility, in kg.
- \( D_x \): Disbursements of each cover gas or carrier gas to sources and locations outside the facility through sales or other transactions during the year, including heels in cylinders or other containers returned by the magnesium production or processing facility to the gas supplier, in kg.
- 0.001: Conversion factor from kg to metric tons.
- \( X \): Each cover gas or carrier gas that is a GHG.

(2) To estimate emissions of cover gases or carrier gases by monitoring changes in the masses of individual containers as their contents are used, emissions of each cover gas or carrier gas shall be estimated using Equation T–2 of this section:

\[ E_{GHG} = 0.001 \sum_{p=1}^{n} Q_p \]  

Where:

- \( E_{GHG} \): Emissions of each cover gas or carrier gas, \( X \), over the reporting year (metric tons).
- \( Q_p \): The mass of the cover or carrier gas consumed (kg) over the container-use period \( p \), from Equation T–3 of this section.
- \( n \): The number of container-use periods in the year.
- 0.001: Conversion factor from kg to metric tons.
- \( X \): Each cover gas or carrier gas that is a GHG.

(b) For purposes of Equation T–2 of this section, the mass of the cover gas used over the period \( p \) for an individual container shall be estimated by using Equation T–3 of this section: