Magnesium Production Facilities

Subpart T, Greenhouse Gas Reporting Program

Measure these parameters for each magnesium (Mg) production facility that meets the requirements of 40 CFR 98.200 and 98.201:

What Must Be Monitored?

Each Mg production facility must monitor the following:

- ☐ Type of Mg production process (e.g., primary, secondary, die casting).
- ☐ Average cover gas flow rate (standard cubic feet per minute (scfm)).
- ☐ Overall cover gas usage rate for the facility (kilograms (kg) of greenhouse gas (GHG)/metric tons of Mg).
- ☐ New melt protection technologies adopted during the reporting year that account for changes in emissions from the previous year.
- ☐ Amount of Mg produced or processed over the reporting period for each process type (metric tons).
- ☐ Composition of the cover/carrier gas during the reporting period (% by volume).
- ☐ For missing data, the length of time data are missing, the method used to estimate cover and carrier gas usage, and the quantity of emissions estimated for the missing data period.
- ☐ Changes in facility cover gas usage rate greater than 30% compared to the prior year. If applicable, facilities must provide an explanation.

Each Mg production facility must monitor the following based on the gas consumption tracking method used:

Inventory method (Equation T-1):

- ☐ Inventory of each cover gas or carrier gas stored in cylinders or other containers at the beginning of the year, including residual gas amounts (heels) (kg).
- ☐ Acquisitions of each cover gas or carrier gas during the year through purchases or other transactions (kg).
- ☐ Inventory of each cover gas or carrier gas stored in cylinders or other containers at the end of the year, including heels (kg).
- ☐ 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 Mg production or processing facility to the gas supplier, including heels (kg).

Cylinder tracking method (Equations T-2 and T-3):

- ☐ Mass of each container's contents (kg) at the beginning of the container-use period.
- ☐ Mass of each container's contents (kg) at the end of the container-use period.

Mass flow controller method:

- ☐ Mass of each cover gas or carrier gas measured using a mass flow controller during the period of use.

For More Information

For additional information and resources on Subpart T, please visit the Subpart T webpage.

This monitoring checklist is provided solely for informational purposes. It does not replace the need to read and comply with the regulatory text contained in the rule. Rather, it is intended to help reporting facilities and suppliers understand key provisions of the GHGRP. It does not provide legal advice; have a legally binding effect; or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits with regard to any person or entity.