## Lime Manufacturing Monitoring Checklist

Final Rule: Mandatory Reporting of Greenhouse Gases



What Must Be Monitored for Kilns?

### If NOT using a CEMS, measure these parameters...

#### For determining the monthly emission factor for each type of lime produced:

- Calcium oxide content for each lime type (metric tons CaO/metric ton lime), analyzed monthly.
- ☐ Magnesium oxide content for each lime type (metric tons MgO/metric ton lime), analyzed monthly.

# For determining the monthly emission factor for each type of byproduct/waste sold (including lime kiln dust):

 □ Calcium oxide content for each solid lime byproduct/waste type (metric tons CaO/metric ton lime), analyzed monthly.
□ Magnesium oxide content for each solid lime byproduct/waste type (metric tons MgO/metric ton lime), analyzed monthly.

## For determining annual CO<sub>2</sub> emissions from each type of byproduct/waste that is not sold (including lime kiln dust and scrubber sludge):

- Calcium oxide content for each unsold lime byproduct/waste type (metric tons CaO/metric ton lime), analyzed annually.
  - ☐ Magnesium oxide content for each unsold lime byproduct/waste type (metric tons MgO/metric ton lime), analyzed annually.

#### For determining annual CO<sub>2</sub> process emissions for all kilns:

- Monthly weight or mass of each lime type produced (tons)
- Monthly weight or mass of byproducts/waste sold (such as lime kiln dust) for each lime type (tons)

#### For all kilns combined (i.e., for the whole facility):

Monthly amount of lime product sold, Beginning and end of year inventories П by type (tons) for each lime product Monthly amount of lime Beginning and end of year inventories byproduct/waste sold, by type (tons) for lime byproducts/wastes Annual amount of CO<sub>2</sub> captured for use П Annual operating hours in the onsite process (if applicable)

### If using a CEMS:

# In addition to the monitoring requirements under 40 CFR subpart C for the Tier 4 Calculation Methodology, measure these parameters for each kiln...

Annual amount of lime product sold, by Annual amount of lime product not sold, type (tons) by type (tons) Annual amount of lime byproduct/waste Beginning and end of year inventories П sold, by type (tons) for each lime product Beginning and end of year inventories П Annual amount of lime byproduct/waste not sold, by type (tons) for lime byproducts/wastes

See also the information sheet for Lime Manufacturing (EPA-430-F-09-038R) at: www.epa.gov/ghgreporting/documents/pdf/infosheets/limemanufacturing.pdf.

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