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Research and Development

LIME AND CEMENT INDUSTRY

PARTICULATE EMISSIONS:

SOURCE CATEGORY REPORT

Volume II. Cement Industry

Prepared for

Office of Air Quality Planning and Standards

Prepared by

Air and Energy Engineering Research
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LIME AND CEMENT INDUSTRY PARTICULATE EMISSIONS:
SOURCE CATEGORY REPORT

Volume II. Cement Industry

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ABSTRACT

The objective of this study was to develop particulate emission factors based on cutoff size for inhalable particles for the cement industry. After a review of available information characterizing particulate emissions from cement plants, the data were summarized and rated in terms of reliability. Size specific emission factors were developed from these data for the major processes used in the manufacture of cement. A detailed process description was presented with emphasis on factors affecting the generation of emissions. A replacement for Sections 8.6 (Portland Cement Manufacturing) of EPA report AP-42, A Compilation of Air Pollutant Emissions Factors, was prepared, containing the size specific emission factors developed during this program.

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