Background Report Reference

AP-42 Section Number: 9.9.7

Background Chapter: 4

Reference Number: 2

Title: Assessment of Fugitive Particulate Emission Factors for Industrial Processes

J. Zoller et al.

U.S. EPA

September 1978

Sec. 4
Pg. 2

United States
Environmental Protection
Agency

Office of Air Quality
Planning and Standards
Research Triangle Park NC 27711

EPA-450/3-78-107
September 1978

Air

AP-42 Section 9.9.1
Reference
Report Sect. 4
Reference 2

EPA

Assessment of Fugitive Particulate Emission Factors for Industrial Processes

6.4 GRAIN ELEVATORS

8/17/98
#13

EPA-450/3-78-107

Assessment of Fugitive Particulate Emission Factors for Industrial Processes

by

John Zoller, Thomas Bertke, and Thomas Janszen

PEDCo Environmental
11499 Chester Road
Cincinnati, Ohio 45246

Contract No. 68-02-2585

EPA Project Officer: Charles C. Masser

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air, Noise, and Radiation
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

September 1978

This report is issued by the Environmental Protection Agency to report technical data of interest to a limited number of readers. Copies are available free of charge to Federal employees, current contractors and grantees, and nonprofit organizations - in limited quantities - from the Library Services Office (MD-35), U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711; or, for a fee, from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161.

This report was furnished to the Environmental Protection Agency by PEDCo Environmental, 11499 Chester Road, Cincinnati, Ohio 45246, in fulfillment of Contract No. 68-02-2585. The contents of this report are reproduced herein as received from PEDCo Environmental. The opinions, findings, and conclusions expressed are those of the author and not necessarily those of the Environmental Protection Agency. Mention of company or product names is not to be considered as an endorsement by the Environmental Protection Agency.

Publication No. EPA-450/3-78-107

TABLE OF CONTENTS

TABLE OF CONTENTS (continued)

LIST OF FIGURES

LIST OF FIGURES (Continued)

LIST OF FIGURES (Continued)

1.0 SUMMARY

1.1 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) has called for revisions of State Implementation Plans (SIP's) in areas where the total suspended particulate (TSP) standard is being exceeded. An integral part of the SIP's is the TSP emission inventory, which is necessary to identify areas requiring emission control. Deficiencies in some state inventories must be corrected before strategies can be developed. One of these deficiencies is the lack of reliable emission factor data for TSP resulting from fugitive emissions from industrial processes.

The purpose of this assessment is to develop a priority listing of fugitive industrial processes on which source sampling is needed and to provide EPA with recommendations and support documentation for the development of fugitive TSP emission factors for industrial processes.

The industries covered are those whose processes contribute to fugitive particulate emissions. This study also includes an update of data found in the manual, Technical Guidance for Control of Industrial Process Fugitive Particulate Emissions.[1] Fugitive dust sources such as storage piles, vehicular traffic, and windblown dust are not included in this study. NOTE

1.2 PRIORITY LISTING

Two criteria were used for the priority listing of industrial categories that require source sampling of fugitive process emissions: 1) adequacy of currently available fugitive emission factor data, and 2) total potential uncontrolled fugitive particulate emissions (industrywide). The priority listing is presented in Table 1-1.