

PPG INDUSTRIES, INC.
INDUSTRIAL CHEMICAL DIVISION
LAKE CHARLES, LOUISIANA

LD-1121A

CONTINUING PROGRAM OF MONITORING ATMOSPHERIC CONTAMINANTS
WITHIN THE LAKE CHARLES PLANT

by

Mark Wood

March 11, 1970

Distribution

W. Graybill
H. J. Hoenes, Jr.
H. B. Lovejoy
D. Duncan
M. Davis
C. A. Burns
J. Jackson
T. Taylor
Technical Files (5)
Author
Laboratory File

| BB 0013959 |

February 4, 1974

Zeb G. Bell, Jr.

19 East

Asbestos

Mr. F. J. Seeba

All of our diaphragm cell plants are being audited to assure that they are in compliance with the OSHA asbestos standard. In many instances, we are taking extraordinary measures to minimize exposures. I feel that this area development is coming along nicely.

As for our practices in insulation, I was just getting around to this when the vinyl chloride news broke. There are certain programs that should be completed at Lake Charles, Barberton, Natrium, and Corpus Christi.

Zeb G. Bell, Jr.

ZGB:mal

cc: D. D. Dupre

| BB 0013961 |

CC: C. H. / M. W.
INTER-OFFICE CORRESPONDENCE

Date: September 16, 1975

From: Z. G. Bell, Jr.

Location: 10 West

Subject: Amorphous Silicas TLV

To: H. J. Hoenes
W. G. Krochta

There has been considerable discussions concerning the appropriate Threshold Limit Values for synthetic amorphous silicas among producers, users, NIOSH, OSHA, etc. To clarify the present status, the following information is provided.

The present OSHA standard for amorphous silicas is 20 mppcf. The 80% SiO_2 has been misused by OSHA, and PPG has a letter from OSHA stating that this standard (80% SiO_2) is not applicable. It is possible for OSHA under the general duty clause to apply the latest consensus standards from such sources as the ACGIH. The ACGIH TLV is 10 mg/m^3 for total inert dust. The ACGIH TLV committee has proposed a notice of intended change for amorphous silicas and diatomaceous earth of 3 mg/m^3 total dust and 1 mg/m^3 respirable fraction. This is being contested by the industry as being unnecessarily restrictive since it is documented on only diatomaceous earth data.

It is recommended at this time that we use 10 mg/m^3 dust and 5 mg/m^3 respirable fraction for our synthetic amorphous silicas. If you have any questions, please contact me.

Zeb G. Bell, Jr.

/zak

cc: J. M. Davis
F. C. Dehn
L. B. Grant, M. D.
L. A. Kuryla
D. D. Redle

| BB 0013962 |

LABORATORY
RECEIVED

SEP 19 1975

PPG INDUSTRIES
Chemical Division
Lake Charles, La



LAKE CHARLES PLANT
INDUSTRIAL CHEMICAL DIVISION

REQUEST R ENGINEERING SERVICES

M. L. BATH

file 14 71-7522

DATE May 18, 1972 DEPT. NO. 45A PROJECT NO. P-372

REQUESTED BY C. A. Burns DATE REQUIRED June 1972 PROJECT CHARGE _____

PROJECT NAME Stack Sampling and Testing Particulate Material from Silica Pigments Stacks at Silica Pigments Plant *no BIN*

PROJECT DESCRIPTION (DESCRIBE ADEQUATELY IN DETAIL WHAT IS WANTED AND WHAT IT IS THAT YOU WANT ACCOMPLISHED)

Barberton Technical Center will allow K. A. Kuryla to come to Lake Charles with proper stack sampling equipment and sample train for making particulate measurements being emitted from each of the pigment plant stacks.

REASON FOR EXPENDITURE

State of Louisiana has indicated to us that Lake Charles area has high particulate in ambient air. PPG will, from this study, determine particulate stack emissions.

ENGINEER ASSIGNED

C. A. Burns

APPROVED (INITIALS & DATE)	DISAPPROVED	INVESTIGATE & ESTIMATE	ESTIMATE APPROVED	ENGINEERING ONLY	ENGINEERING & CONSTRUCTION
AREA SUPT. <i>(Pigments)</i>					
ASST. PLANT SUPT.					
PLANT SUPT.					
ENGR. & MAINT. SUPT.					
<i>PLANT</i> ELEC. ENGR.					
TECH. MGR.					
WORKS MGR.					
PLANT ENGR.					<i>7/25-72</i>

EST. COST: LABOR _____ MATL. _____ O. H. _____ CONT. _____ TOTAL _____

REV. EST. COST: _____

AMOUNT OF TOTAL TO BE EXPENDED _____

REMARKS: The Silica Pigments plant stacks have been scaffolded and sampling ports prepared for Mr. Kuryla to go ahead with the test work. This project is in progress and is requested for accounting purposes.

posted

BB 0013963

CLOSING DATE & REASON:

5-10-73 - Complete

CONTINUING PROGRAM OF MONITORING ATMOSPHERIC CONTAMINANTS
WITHIN THE LAKE CHARLES PLANT
LD-1121A

INTRODUCTION

This report is an addendum to answer questions that have arisen concerning LD-1121.

DISCUSSION

The Threshold Limit Values stated in LD-1121 are recommended by the American Conference of Governmental Industrial Hygienists and are expressed as "parts of vapor or gas per million parts of air by volume" or "milligrams particulates or aerosols per cubic meter of air" at 25°C and 760 mm Hg. The reported values in this report are expressed in the same units.

Sampling time varies greatly, depending on the method of detection and the concentration of contaminant present, but listed below are approximate sampling periods for given contaminants:

Ammonia	- 4 hours
Chlorine	- 4 hours
Chlorine-Chlorine Dioxide	- 4 hours
1,2-Dichloroethane	- 3 to 6 minutes
Ethylene	- 3 to 6 minutes
Hydrogen Chloride	- 4 hours
Lead	- 6 to 48 minutes
Mercury	- Lemaire Sniffer: Instantaneous Unico Tubes: 3 minutes Monitaire Tubes: 4 hours
Methyl Chloroform	- 3 to 6 minutes
Particulates	- Electrostatic Precipitation: 5 to 30 minutes Monitaire Samplers: 1 to 4 hours
Perchloroethylene	- 3 to 6 minutes
Phosgene	- 3 to 6 minutes
NaOH Mist	- 6 hours
Trichloroethylene	- 3 to 6 minutes
Vinyl Chloride	- 3 to 6 minutes

Author:

Mark Wood

Date

Approved:

C. P. LeBlanc

Date

MW:rw

BB 0013960