FILE NAME: Pennsylvania Asbestos (PAA)

DATE: 1966-1969

DOC#: PAA005

DOCUMENT DESCRIPTION: Bendix Docs from York with BC Comments

Bendix York

1966 fibrous glass dust from
1969 electronic circuit boards

some dust counts recorded,
well within legal limits

nothing on asbestos

NIH-19002 REV. 5/68

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HEALTH
OCCUPATIONAL HEALTH

5534 file

PAGE 1 OF 1
REGION I
DATE COLLECTED 10/14/69
DATE SUBMITTED 10/17/69
DATE REC'D IN LAB. 10/21/69

SAMPLE AND LABORATORY REPORT

NAME OF COMPANY	ADDRESS
Bendex Inc.	2315 N. 11th St., Phila., Pa. 19133

PRODUCT MANUFACTURED OR SERVICE	MATERIAL SAMPLED	APPARATUS AND SUCTION SOURCE
bonded brake relining	abrasive shot	N.A.
COLLECTED BY	**COLLECTION MEDIUM**	**ANALYSIS DESIRED**
P. DeFao	bulk	% SiO_2, asbestos

OTHER SUBSTANCES PRESENT

COMMENTS

SAMPLE NUMBER	SAMPLING LOCATION AND OPERATION	AIR VOLUME	LABORATORY RESULTS % Free SiO_2
I-2371	Dust collector		< 1 *

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REPORT OF ANALYSIS

*No asbestos detected nor cristobalite and tridymite.

By x-ray diffraction.

ANALYSIS F. Vonder Heiden DATE 11/6/69 CHEMIST

DATE REC'D. 10/21/69 DATE TYPED 11/14/69 DATE SUBMITTED TO REQUESTING AGENCY 11/14/69

29 Chestnut Street
Lewistown, Pennsylvania
October 14, 1966

Bendix Corporation
Lincoln Highway East
York, Pennsylvania

Attention: Mr. W. D. Cowman
Director of Industrial Relations

Gentlemen:

Mr. Frederick Miller, industrial hygienist of this Division evaluated employees' exposure to fibrous glass dust in your printed circuit board department on 26 May and on 21 September 1966. The survey was conducted at the request of Mr. Lewis Wasro, superintendent of manufacturing.

Samples of the work atmosphere in the breathing zone of the workers were collected on pre-weighed membrane filters and the final weight was determined in terms of fibrous glass dust.

The results are given in the attached table. They indicate that employees' exposure to fibrous glass dust is less than the tentative threshold limit value of 5 milligrams per cubic meter of air.

We enclose a copy of dust exposures and a copy of Article 432, as amended.

Thank you for your cooperation in enabling this survey to be conducted.

Very truly yours,

H. L. Williams
Regional Industrial Hygienist

HLW:fw

Enclosures

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Commonwealth of Pennsylvania
Department of Health
DIVISION OF OCCUPATIONAL HEALTH

Fibrous Glass Dust Concentrations

Bendix Corporation
Lincoln Highway East
York, Pennsylvania

Location	Fibrous glass dust* (milligrams per cubic meter of air)	Remarks
Printed Circuit Board Department		
Single spindle drill press	0.71	Drilling fibrous glass board
Triple spindle drill press	0.57 0.89	Drilling paper board
Four spindle drill press	0.67 0.32	Drilling fibrous glass board

* Tentative threshold limit value: 5 milligrams per cubic meter of air, based on an eight-hour working day.

Survey by:

F. O. Miller
Industrial Hygienist II

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OA-501 7-62

COMMONWEALTH OF PENNSYLVANIA

October 14, 1966

SUBJECT: Bendix Corporation
Lincoln Highway East
York, Pennsylvania

Thru: Regional Industrial Hygienist

TO: E. J. Baier, Chief
Industrial Hygiene Section

FROM: F. C. Miller
Industrial Hygienist
Region V

This survey was conducted 26 May and 21 September 1966. It was originally requested by Mr. Lewis Wawro, superintendent of manufacturing.

Printed circuit boards reinforced with fibrous glass and impregnated with epoxy resin or reinforced with alpha cellulose-type paper and impregnated with epoxy resin were drilled on single spindle and on multiple spindle drill presses. One single spindle press was equipped with a dust collector but the operator did not use it. The other presses had an air jet which removed chips from the drill. These drills varied in size from 0.04 inch to 0.10 inch. Drilling was not continuous as it was necessary to remove boards and replace with other ones to be drilled and occasionally to sharpen drills.

Atmospheric samples were collected on pre-weighed membrane filters and final weight was determined in terms of fibrous glass dust.

The samples collected represent exposures less than the tentative threshold limit value of 5 milligrams per cubic meter of air.

This room is to be enclosed and an air conditioner installed probably during the early part of 1967. No difficulty has been experienced with dermatitis.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HEALTH
OCCUPATIONAL HEALTH

2576 File

SAMPLE AND LABORATORY REPORT

REGION V
DATE COLLECTED 9/21/66
DATE SUBMITTED 9/27/66
DATE REC'D IN LAB. 9/28/66

NAME OF COMPANY	ADDRESS
Bendix Corporation	Lincoln Highway East, York, Penna.

PRODUCT MANUFACTURED OR SERVICE	MATERIAL SAMPLED	APPARATUS & SUCTION SOURCE
Electronics	Work atmosphere	Membrane filter & Little Giant* Pump

COLLECTED BY	COLLECTION MEDIUM	ANALYSIS DESIRED
F. Miller	Silver membrane	Fibrous glass

SUBSTANCES LIKELY TO INTERFERE AND LIKELY TO BE PRESENT

Epoxy resin, alpha cellulose type paper, copper metal

COMMENTS These are printed circuit boards plated with a very thin layer of copper and composed of epoxy resin reinforced with fibrous glass or epoxy resin reinforced with paper.

REGION SAMPLE NUMBER	LAB. SAMPLE NUMBER	SAMPLING LOCATION AND OPERATION	AIR VOLUME cu. ft.	LABORATORY RESULTS Fibrous glass mg/m^3
2761	FF868	Single drill press - fibrous glass and epoxy resin	30	0.71
2762	FF869	Triple spindle drill press epoxy resin and paper	29	0.57
2763	FF870	Triple spindle drill press epoxy resin and paper	29	0.49
2764	FF871	Four spindle drill press - fibrous glass and epoxy resin	30	0.67
2765	FF872	Four spindle drill press - fibrous glass and epoxy resin	30	0.32
2766	FF873	Field monitor and membrane filter for blank	--	Blank*

REPORT OF ANALYSIS

*Blank lost 0.13 mg in field

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ANALYSIS BY J. R. Hall DATE 9/29/66 CHEMIST J. Donovan

DATE REC'D. 9/29/66 DATE TYPED 9/29/66 sk DATE SUBMITTED TO REQUESTING AGENCY

HIH-18 03 REV. 3/65

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HEALTH
OCCUPATIONAL HEALTH

FIELD ACTIVITY REPORT

REGION V

PROD. MFG. OR SERVICE Electronics

DATE 9/21/66

EMPLOYEES
MALE 100
FEMALE 185
TOTAL 285

COUNTY 67

IND. CODE 36

PLANT Bendix Corporation

ADDRESS Lincoln Highway East, York

PERSON INTERVIEWED Frank Schroeder

TITLE Maintenance Foreman

PURPOSE: INVEST.; SURVEY; INSPECT.; PRELIM.; F.U.; CONF.; VISIT:

REASON: SELF-INIT.; O.D. REP.; COMPL.; REQUEST; SOURCE Lewis Wawro, Superintendent of Manufacturing

SPECIFIC HAZARD OR CONDITION	WORKERS EXPOSED	RECOMMENDATIONS WRITTEN — VERBAL	ACCOMPLISHED YES	NO	IN PROG.
Fibrous glass dust	3	None pending laboratory analysis of samples submitted for reweighing.			

SAMPLES COLLECTED (NO. & KIND) work atmosphere (5). TOTAL 5

DETERM. MADE (NO. & KIND) TOTAL

MEDICAL O.D. REPORTED, NO. & KIND

REMARKS Preweighed membrane filters submitted for analysis of fibrous glass. This is a resurvey conducted to obtain a larger sample for analysis. (8 points)

BY F. Miller

PUNCH CARD [X] YES [ ] NO FOLDER [X] YES [ ] NO

HIH-19002 REV. 7/65

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HEALTH
OCCUPATIONAL HEALTH

2226

SAMPLE AND LABORATORY REPORT

REGION V
DATE COLLECTED 5/26/66
DATE SUBMITTED 5/27/66
DATE REC'D IN LAB. 5/27/66

NAME OF COMPANY: Bendix Corporation
ADDRESS: York, Pennsylvania

PRODUCT MANUFACTURED OR SERVICE:
MATERIAL SAMPLED: Fiberglass dust
APPARATUS & SUCTION SOURCE:

COLLECTED BY: F. Miller
COLLECTION MEDIUM: Membrane filter
ANALYSIS DESIRED: Fiberglass dust

SUBSTANCES LIKELY TO INTERFERE AND LIKELY TO BE PRESENT:

COMMENTS: Only first 3 membrane filters used. Fiberglass dust and epoxy resin. Copper is negligible.

REGION SAMPLE NUMBER	LAB. SAMPLE NUMBER	SAMPLING LOCATION AND OPERATION	AIR VOLUME	LABORATORY RESULTS Dust Milligrams/Sample
1	EE927	#1 Drill Press	—	0.2
2	EE928	#2 Drill Press	—	0.1
3	EE929	#4 spindle drill press	—	0.2

REPORT OF ANALYSIS

Note: Membrane filters weighed in lab before and after sampling.

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ANALYSIS BY T. Donovan DATE 6/27/66 CHEMIST T. Donovan

DATE REC'D. 6/28/66 DATE TYPED 6/28/66 BK DATE SUBMITTED TO REQUESTING AGENCY