

### **Bethlehem Steel**

- Nothing asbestos specific
- 1972 evidence of abnormal chest x-rays, dust counts
- 1966 Operation/Hazard/Control Measure matrix

December 11, 1972

J. P. Robinson, M.D.  
Plant Medical Director  
Bethlehem Steel Corporation  
Bethlehem Plant  
Bethlehem, Pennsylvania 18016

Dr. Robinson:

The results of the x-ray examinations performed between August and September of 1972 have been received in this office and reviewed by the physicians in our Plant Health Services Section. In this report, 25 cases of "diffuse nodular opacities suggestive of pneumoconiosis or silicosis" were noted.

We would like to know the name, age, work history of these employees to learn whether or not these reported changes are of recent origin. We are also interested in knowing the results of their lung function studies, if such tests have been conducted.

I have asked Dr. Alexander B. Rakow, Industrial Hygiene Physician, to visit your office for the purpose of reviewing the above records. He will be contacting you shortly to set up a mutually agreeable date.

John W. Knauber, Director  
Bureau of Occupational Health

X *AKR*  
JWK:SF:ABR:sly

CC: Region II-WA  
"C" File ✓

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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
OCCUPATIONAL HEALTH

REPORT OF INDUSTRIAL MEDICAL EXAMINATIONS

Please prepare in duplicate and send original to the Division of Occupational Health, Department of Environmental Resources, P. O. Box 2351, Harrisburg, Pa. 17120. The copy may be given to the company. In lieu of this report, copies of laboratory result, x-ray reading, etc. may be submitted to the Division of Occupational Health.

This is to certify that I(we) conducted the following examinations or tests:

Name of Company Bethlehem Steel Corporation City Bethlehem

Type of Examination: ☐ Blood lead ☐ Urine mercury  
☐ Urine lead ☐ Blood mercury  
☐ Chest x-ray, 70 mm ☐ Other (specify) \_\_\_\_\_  
☒ Chest x-ray, 14" x 17" - Steel Foundry

Date of Examination: Month August-September Year 1972 Total examined 200

Total number of employees "within normal limits" 79 Range of Levels \_\_\_\_\_

Total number of employees with "abnormal results" 121 Range of Levels \_\_\_\_\_

If chest x-rays are reported, please give below the number of readings that are applicable:

1. Diffuse nodular opacities suggestive of pneumoconiosis or silicosis 25
2. Suspect neoplasm 0
3. Tuberculosis, all stages 2
4. Cardiac enlargement 0
5. Fibrosis and/or Emphysema 3
6. Other (including pneumonitis, calcifications, foreign bodies and abnormalities of  
of pleura, diaphragm, hilum, mediastinum, costa, vertebra, etc.) 91  
(includes Peritruncal Exaggeration - 80)

Original medical results of the individuals included in the above examinations are available

for review at: Medical Center - Bethlehem Steel Corporation - Bethlehem Plant  
(Indicate where the records are kept, e.g., physician's office, hospital, laboratory or company. Please include name and address.)

Date 11-03-72 Signature of Physician or Laboratory Director [Signature]  
Address Bethlehem Steel Corporation - Bethlehem, Penna

The authority to examine these records for the above purposes is set forth in Sections 1901-A(9) and 1917-A and other provisions of The Administrative Code of 1929, the Act of April 9, 1929, P. L. 177, as amended.

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Commonwealth of Pennsylvania  
Department of Environmental Resources  
OCCUPATIONAL HEALTH

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Aluminum Dust Concentrations

Allegheny Steel Corporation  
701 East Third Street  
Pittsburgh, Penn. 15214

| Time | Dust count<br>(million particles per cubic foot of air) | Threshold limit value <sup>1</sup> | Percent free<br>silica <sup>2</sup> | Remarks                                                                            |
|------|---------------------------------------------------------|------------------------------------|-------------------------------------|------------------------------------------------------------------------------------|
| 1.1  | 1.1                                                     | 8.8                                | 24                                  | Operator's exposure during<br>plate mill flask shakeout                            |
| 2.1  | 2.1                                                     |                                    |                                     | General air, no shakeout<br>occurring                                              |
| 2.0  | 2.0                                                     |                                    |                                     | Operator's exposure during<br>bullhead drag holds shakeout                         |
| 3.3  | 3.3                                                     | 3.4                                | 73                                  | Operator's exposure during<br>chill mold knockout, 1 hour<br>1 hour average weekly |
| 2.4  | 2.4                                                     |                                    |                                     | General air after chill mold<br>knockout completed                                 |

<sup>1</sup> OSHA 1910.1001 applicable to aluminum dust exposure for an 8-hour working day, as determined by the NIOSH 2540 method using a high-volume dust counting technique

<sup>2</sup>  $\frac{1.1}{2.0} = 0.55$   
20% silica = 10

100% silica = 100

Franklin Mills  
Johnstown 16001

Phone: 526-4351 (Mills - 16.0)

Inspection by - Williams/Majer  
December 12, 1966

Employees - 3500 male

| Operation                                              | Hazard                                                                                                                                                           | Control Measure                                                                                                                                                                                          |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Franklin Mills<br>Car Shops                            |                                                                                                                                                                  |                                                                                                                                                                                                          |
| Tank Car Section ("Sissyback" railroad cars)           |                                                                                                                                                                  |                                                                                                                                                                                                          |
| welding (manual)<br>(center beam)<br>(mild steel rods) | heat, smoke, silica dust,<br>carbon monoxide, ozone<br>oxides of nitrogen<br>iron oxide fumes, fluorides                                                         | local exhaust ventilation<br>ceiling & wall fans<br>high ceilings & windows open<br>approved respirators<br>ear protection devices                                                                       |
| Flat-bed welding)                                      | noise in area<br>ultra violet light<br>infra red rays                                                                                                            | safety clothing, shields,<br>glasses<br>separate welding areas &<br>booths                                                                                                                               |
| side seam welding)                                     |                                                                                                                                                                  |                                                                                                                                                                                                          |
| (end section welding)                                  |                                                                                                                                                                  |                                                                                                                                                                                                          |
| welding (machine)<br>(semi-automatic units)            | heat, smoke, silica dust<br>carbon monoxide, ozone<br>iron oxide fumes, fluorides<br>oxides of nitrogen<br>noise in area<br>ultra violet light<br>infra-red rays | local exhaust ventilation<br>ceiling & wall fans<br>isolated area & enclosures<br>high ceilings & windows open<br>approved respirators<br>ear protection devices<br>safety clothing, shields,<br>glasses |
| welding<br>(steel metal plates<br>and beams)           | heat, smoke, silica dust<br>carbon monoxide<br>infra-red rays<br>natural gas<br>iron oxide fumes<br>noise in area                                                | local exhaust ventilation<br>ceiling & wall fans<br>approved respirators<br>high ceilings & windows open<br>ear protection devices<br>protective clothing, shields,<br>glasses                           |
| transfer (load)                                        | silica dust, carbon monoxide<br>heat; steel metal dust &<br>particles; noise; vibration                                                                          | general ventilation<br>ceiling & wall fans<br>approved respirators<br>safety clothing, shields,<br>glasses                                                                                               |

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12/17/66

| Operation                                                       | Hazard                                                                                                                                         | Control Measure                                                                                                                                                     |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| overhead crane (C)<br>(in pits from all of<br>above operations) | silica dust, smoke<br>iron oxide fumes, ozone<br>noise, oxides of nitrogen<br>fluorides, U.V. light<br>infra red rays, heat<br>carbon monoxide | great distance from floor<br>operations<br>enclosed cab; limited eye and<br>wall & ceiling fans<br>open windows, respirators avail-<br>able, protective ear devices |

"Saw-Tooth" Building (car shops - Franklin Mills)  
(2-erection lines; does spot welding as needed and inspection)

|                                                                |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                          |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| welding (spot)<br>(mild steel rods)<br>inspection and grinding | coated and uncoated rods<br>silica dust, heat, smoke<br>oxides of nitrogen, ozone<br>iron oxide fumes, noise<br>fluorides, U.V. light<br>infra red rays, illumination<br>carborundum dust & particles<br>steel metal particles & dust | local exhaust ventilation<br>(6) large exhaust fans<br>high ceilings and windows<br>protective ear devices<br>approved respirators, safety<br>glasses, helmets, clothing<br>limited exposure<br>local lighting as needed |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Note: Cranes are hand operated as needed from floor near operation. Exposure to hazards and controls are the same as for the above operations.

(Attach this to previous large punch card)

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WALTER J. BURKE  
SECRETARY TREASURER

I. W. ABEL  
PRESIDENT

JOSEPH P. MOLONY  
VICE PRESIDENT

# United Steelworkers of America

AFL-CIO-CLC

1500 COMMONWEALTH BUILDING

PITTSBURGH, PA. 15222

PHONE 471-5254  
CABLE ADDRESS USWA

November 21, 1966

Jan Lieben, M. D., Director  
Division of Occupational Health  
Pennsylvania Department of Health  
Health and Welfare Building  
Harrisburg, Pennsylvania 17120

Dear Dr. Lieben:

I respectfully request that chest X-rays be taken of welders and other employees in the car shop at the Bethlehem Steel Company, Franklin Division, Johnstown, Pennsylvania. My reason for this request is that there is evidence of emphysema to a large degree. I also sincerely request that your findings be held confidential between the State and the individual's doctor.

The next problem concerns the locker rooms in the blast furnace department. I have met with Mr. R. E. Taylor, Management Representative in Johnstown, and I made personal inspection of these locker rooms and washing facilities, and I will tell you the same thing I have told Mr. Taylor. These locker rooms, toilet, and washing facilities are below sub-standard. I would say they are much below your 1964 edition of "Regulations for Industrial Sanitation".

Therefore, I urge you to make inspection of these areas while the employees are changing turns. I could elaborate further on these conditions, but I would rather you or members of your staff observe for themselves, and not be influenced by any description I may submit.

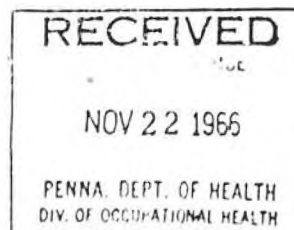
Thanks for your prompt attention.

Sincerely yours,

*Frank Burke*

FRANK BURKE  
Director  
Safety and Health Department

FB/jad  
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