FILE NAME: Baldwin (BALD)

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DOCUMENT DESCRIPTION: Letter to B-L-H Corp. with Inspection Report from Nov 19, 1970 - Iron Fumes & Dust

March 10, 1971

Mr. Karl Dundore
Safety Director
Baldwin-Lima-Hamilton Corporation
Lima Division
1046 South Main Street
Lima, Ohio 45804

Dear Mr. Dundore;

Enclosed are two copies of a report on the visit to your company on November 19, 1970, relative to a request for an iron dust count in Building #5.

Thank you for the courtesy and attention during this visit.

If this Division can be of assistance to your company at any time on industrial hygiene or engineering problems relating to safety, please let us know.

Very truly yours,

MEH
Maurice E. Hatten, P.E.
Industrial Hygiene Engineer

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Enc:

March 10, 1971

Re: Baldwin-Lima-Hamilton Division
Baldwin-Lima-Hamilton Corporation
1046 South Main Street
Lima, Ohio 45804

1. On November 19, 1970, the above named company was visited to make an industrial hygiene investigation of iron-fumes and dust.

2. Those contacted include:

Mr. Earl Dandere
Safety Director

Mr. Marion Fisher
Shop Foreman

Mr. Richard Rahrig
Supervisor, Labor Relations

3. The company manufactures heavy construction equipment such as power shovels, stone crushers, and draglines.

4. Building #5 has a main section 580' long x 120' wide with the burning room adjoining having dimensions of 170' x 150'. The height is about 68', including a monitor of 19'.

5. The following samples were taken:

Time A.M.	Location	Operation	Type Analysis	Concentration in air
10:28	Building #5, N. end, W. side (burning room).	Cutting torch, manual.	15 min. air sample of approx. 150 liters, iron oxide fumes on filter paper.	9.3 mg/m^3*
10:45	Bldg. #5, N. end, middle of burning room.	Automatic cutting of steel plates, acetylene torch.	5 min. air sample, impinger dust count.	0.8 mppcf (BZ)**
10:57	Bldg. #5, midway in welding area, at Column 5 C-23.	General welding.	15 min. air sample of approx. 150 liters, iron oxide fumes on filter paper.	1.53 mg/m^3

* - mg/m^3 - milligrams per cubic meter.
** - mppcf (BZ) - million parts per cubic foot in breathing zone.

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6. The iron oxide fume concentration measured is less than the recommended limit of 10 mg/m³.

7. The impinger dust count of 0.8 mppcf is less than the recommended limit of 30 mppcf. The observed particles include both shop and iron dust.

8. This investigation was made in accordance with IC-5, Specific Safety Requirements of The Industrial Commission of Ohio Relating to All Workshops and Factories.

9. No recommendations are required at this time.

Respectfully submitted,

MEH

Maurice E. Hutton, P.E.
Industrial Hygiene Engineer

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Enc: Technical Bulletin - IRON-Fumes & Dust.

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