PLAINTIFF'S
EXHIBIT
BRK-162

March 14, 1962

N. L. Stiff, Personnel Director
Chevrolet Cleveland Division
General Motors Corporation
Brookpark & Stumpf Roads
Cleveland, Ohio

Dear Mr. Stiff:

Enclosed is a report concerning your company which I have the pleasure of submitting.

If this Division can be of service to you at any time, please let me know.

Sincerely yours,

DEWITT HUFFMAN
Industrial Hygiene Engineer

DWH/ee
Enclosure

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AAAA 0183

THE INDUSTRIAL COMMISSION OF OHIO
DIVISION OF SAFETY AND HYGIENE

March 14, 1962

Chevrolet Cleveland Division
General Motors Corporation
Cleveland, Ohio

1. On March 8, 1962 a visit was made to the above named company to check dust conditions at various cast iron machining operations. The visit was made at the request of the Department of Industrial Relations.

2. Contact was made with F. L. Stiff, Personnel Director; D. E. Winger, Supervisor of Safety; Dr. S. R. Meister, Medical Director; and A. W. Leach, District Inspector with the Department of Industrial Relations.

3. The company manufactures Powerglide automatic transmissions and various other automotive components at this plant.

4. Complaints were made about dust conditions at various cast iron machining operations. These operations are milling, drilling and chamfering operations and consist of metal-cutting rather than grinding. Most of the operations are temporary. In December, 1961 the machines were moved to the present location. Since the present machining operations on transmission housings will be eliminated some time prior to June 30, 1962 and the dusts at these operations were not considered to be injurious to the health of the employees; the exhaustive ventilation system used on these machines was not transferred to the present location. In the 1963 models the two cast iron pieces of which the present transmission housings consist will be replaced by a single piece aluminum housing which will not require the present machining operations.

5. A total of five air samples were taken to determine dust conditions at the various machining operations. Results of these air samples are as follows:

Sample No.	Remarks	Count (MPPCF*)
1.	Dept. 50, Bay V-33. At Bullard multiple head milling machine No. MS 230; breathing zone of operator. Milling cast iron automatic transmission housings.	0.67
2.	Dept. 50, Bay V-33. Between Bullard No. M7996 and Barnes multiple head drilling machine No. M9396. At turnover man's position on roller conveyor.	0.72
3.	Dept. 50, Bay V-31. At Bullard No. M8531; breathing zone of operator. Milling cast iron housings.	0.96
4.	Dept. 54, Bay R-35. Breathing zone of operator at Ingersoll milling machine M10306; milling cast iron valve body for automatic transmission.	1.80
5.	Dept. 54, Bay R-35. Breathing zone of operator at Kingsbury multiple drill No. M10685. Drilling reaming and chamfering holes in cast iron valve body.	0.83

* Million particles of dust per cubic foot of air.

6. The dust from the cast iron machining operations is classed as a nuisance type dust. The [illegible] Conference of Governmental Industrial Hygienists lists the [illegible] value for this type of dust as 50 million particles per cubic foot of air. This value represents conditions under which it is believed that nearly all workers may be repeatedly exposed, day after day, without adverse effect. From the above air analysis it is seen that dust concentrations at these cast iron machining operations are well below the threshold limit value. Dust conditions at these machining operations do not appear to constitute a health hazard.

Respectfully submitted,

DONALD W. [illegible]
Industrial Hygienist

DEWITT MURPHY
Industrial Hygiene Engineer

DWM/pc

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2. Contact was made with M. L. Shiff, Personnel Director; D. E. Winger, Supervisor of Safety; Dr. E. E. Dempsey, Medical Director; and A. W. Leach, District Inspector with the Department of Industrial Relations.

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Sample No.	Remarks	Count (Million*)
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2.	Dept. 50, Bay V-33. Between Ballard No. M7996 and Barnes multiple head drilling machine No. M0396. At turnover man's position on roller conveyor.	0.72
3.	Dept. 50, Bay V-31. At Ballard No. M6531; breathing zone of operator. Milling cast iron housings.	0.96
4.	Dept. 54, Bay R-35. Breathing zone of operator at Ingersoll milling machine M10306; milling cast iron valve body for automatic transmission.	1.30
5.	Dept. 54, Bay R-36. Breathing zone of operator at Kingsbury multiple drill No. M10685. Drilling reaming and chamfering holes in cast iron valve body.	0.83

* Million particles of dust per cubic foot of air.

6. The dust from the cast iron machining operations is classed as a nuisance type dust. [illegible] reference of Governmental Industrial Hygienists lists the [illegible] for this type of dust as 50 million particles per cubic foot [illegible] conditions under which it is believed that nearly all [illegible] repeatedly imposed, day after day, without adverse effect. From the above [illegible] it is seen that dust concentrations at these cast iron machining [illegible] will below the threshold limit value. Dust conditions at these machining [illegible] appear to constitute a health hazard.

Respectfully submitted,

DONALD W. KUSSY
Industrial Hygienist

DWK/ww

LEWITT HOFFMAN
Industrial Hygiene Engineer

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