CYANAMID

To: Mr. G. P. Bywater

Date: September 19, 1979

Location: Wayne

Copy to: Dr. E. W. C[illegible]

From: Mr. G. A. Forlenza

RECEIVED
AMERICAN CYANAMID CO.
4500 W 15th ST.
CHICAGO, ILL. 60023

Location: Wayne

Subject: CHICAGO LEAD
HEALTH AND SAFETY COMMENTS -

Reference: ESD MONTHLY HIGHLIGHTS

SEP 24 1979

~~The ESD comments present an out-of-context picture.~~

In the fall of 1978, with Mr. Caporossi's active participation, we negotiated a settlement agreement on engineering changes and administrative methods with OSHA for the Chicago Plant, which was received, signed, in January 1979.

In January 1979, the plant manager requested monitoring assistance from Mr. Caporossi, who promised surveys two times a year, with any other surveys to be performed by OCD.

The new OSHA lead standard, effective March 31, 1979, calls for an initial sampling within 90 days or the use of prior data to establish if employee exposures exceed the permissible exposure level. Our data shows we do; thus, the initial sampling wasn't needed. Thereafter, monitoring is required every quarter.

In May, the plant manager requested regular monitoring assistance as called for in the lead standard. On June 18, the Corporate Industrial Hygiene section withdrew the previous promise due to a lack of manpower and stated it could provide guidance only, not do actual monitoring. Prices were obtained for outside consultants, but no action was taken because a Corporate Industrial Hygiene audit was planned for July 24 thru 27 which was enlarged to include monitoring. The new OCD Division Safety Manager, Mr. Jaraszewski, participated in the monitoring survey and also the fitting of respirators. When the analyses were made, air levels had risen over the prior year from 2 to a maximum of 10 times.

Mr. Caporossi and Mr. Jaraszewski returned on August 15 thru-17 to sample further and determine what type of problem we had. They confirmed the earlier higher air level results. Mr. Caporossi's report is attached. Mr. Jaraszewski will perform the regular monitoring called for in the lead standard the week of September 24 and further determine corrective action.

The plant had been conscientiously monitoring the ventilation equipment weekly with velometer measurements of the ventilation hoods. Mr. Caporossi instructed them to use pitot tube in the ducts, a preferred method, each month instead.

Independently, the blood lead determinations jumped about 30% in the August 17 readings. The plant shut down for vacation on August 20. The blood lead readings have shown erratic excursions in the past. The lead standard calls for a recheck because of this variability. A blood lead recheck taken after the employees returned from vacation is due September 20, when we will know if we have a test problem or a real blood lead problem.

On July 10, at the request of the plant manager, Dr. Tobin of Central Medical gave a talk to employees on levels of lead in the blood, as part of our campaign to reverse a gradual upward trend in blood lead levels in 1979.

Our plant manager has discussed the latest monitoring results with his employees and taken corrective actions as indicated. Further analysis is continuing.

Control of lead exposure is an ongoing function at this plant. We have been working cooperatively with Corporate Industrial Hygiene to monitor and resolve problems.

G. A. Fordenza

GAF:mll

CYWI 3-000967

CYANAMID

Date: September 10, 1979

To: Mr. H. C. Gaffney

Location: Chicago Plant

From: Mr. J. C. Caporossi - Wayne
Location:

Subject: Lead Exposure

Reference:

Copy to:

J. C. Burns	NA
E. W. Cantrall	NA
F. B. Dorf	NA
W. A. Fead	NA
G. R. Koehler	NA
S. A. Jaraczewski	NA

9-14-79

The results of air sampling performed by S. Jaraczewski and the writer are attached. These results confirm the exposures determined by Messrs. Shotwell and Jaraczewski on 7/24 - 25/79.

Lead exposures have generally risen since last year, as have employee blood leads.

Several actions are recommended to correct this situation and prevent its recurrence. These actions include:

1. Clean and balance ventilation system. Several dampers were missing or readjusted. As previously recommended, tack weld dampers after balancing.

2. Check efficiency of ventilation system on monthly basis, as per Industrial Hygiene Standard. Checks were being made but improperly with the wrong type of equipment. The writer discussed the proper procedures and equipment with Mr. Johnson.

3. Correct deficiencies noted in Vacumax system. It was being operated without shroud during this visit. Also, the operator complained that the unit was not operating as efficiently as it had in the past.

4. The P&S Drier was running with doors open under positive pressure. Assure proper operating procedures.

5. The Raymond Mill appeared to generate much higher dust concentrations than noted in past years. This may be an operating problem associated with overloading the manual feeding system.

RECEIVED

SEP 14 1979

J. C. BURNS

NA 439 REV. 6-78 6-78

CYWI 3-000968

N14731.01

Until airborne exposures are reduced to 500 ug/M^3 or less, respirators with higher protection factors must be used. A full face piece respirator with high efficiency filters (p.f. = 50) is adequate for all jobs except the 712 Process Operators. For this job an even more efficient unit, e.g., air supplied full-face unit, is required for part of the shift.

Once exposures are reduced to previous levels, air sampling should be done regularly, per the OSHA regulation, to assure continued control.

All of the above recommendations should be acted on immediately to stop blood leads from rising, to correct violations of the OSHA regulation, and to preserve our settlement with OSHA.

J. C. Caporossi

JCC:kn

TIME-WEIGHTED LEAD EXPOSURES, UG/M^3

Job Function	7/24	7/25	8/16	8/17	Average
Bag Packer 712	263	349	1014	345	493
Process Operator 810	3230	2088	2628	841	2197
Foreman	553	3678	601	---	1611
Maintenance Mechanic	1176	1005	356	1648	1046
Litharge Operator	1984	---	825	1550	1453
Bag Packer (S. Tate)	---	495	284	345	375
Process Operator 712	581	21,580	---	4537	2559
Warehouse Operator	18	196	---	---	107