

TO	Mike Guyer	FIELD POINT OR DEPT. & BLDG. NO.	DATE YOUR LETTER
FROM	Scott Johnson	FIELD POINT OR DEPT. & BLDG. NO.	DATE THIS LETTER
SUBJECT			May 4, 1993

First Quarter 1993 Industrial Hygiene Summary - Geon Plant

Henry Plant personnel monitoring results for January through March of 1993 are summarized as follows:

- I. NOISE (BFG Exposure Limit = 50% dose)
(OSHA PEL = 100% dose)

NOISE EXPOSURE BY AREA

<u>AREA</u>	<u>JOB CLASS</u>	<u>NO. OF MONITORINGS</u>	<u>NO. OF MONITORINGS >50% / >100%</u>	<u>EXPOSURE AVERAGE (% DOSE)</u>	<u>MAXIMUM EXPOSURE (% DOSE)</u>
Dryer Bldg. (732)	Bagger	1	1/0	78.4	78.4
	Dryer Operator	6	3/0	44.5	72.7
Poly Bldg. (731)	Leaderman	1	1/0	74.0	74.0
Compounding (741)	Relief Operator	1	1/0	81.8	81.8
	Mill Operator	1	0/1	195.9	195.9
	Laboratory Operator	3	0/0	14.6	27.8

- II. VINYL CHLORIDE (OSHA PEL = 1 ppm, 8-HR TWA)

During the first quarter of 1993 there were 63 monitorings completed for vinyl chloride exposure (35 poly/28 dryer). Of the total monitorings, eight exceeded 1 ppm and 50 (79%) were below 0.5 ppm. These exposures are summarized below:

VINYL CHLORIDE EXPOSURE BY JOB CLASSIFICATION

<u>JOB CLASS</u>	<u>NO. OF MONITORINGS</u>	<u>NO. ABOVE 1 ppm</u>	<u>AVERAGE EXPOSURE (ppm)</u>	<u>MAXIMUM EXPOSURE (ppm)</u>
Recovery Operator	12	4*	1.20	6.60
Resin Reclaim Operator	2	0	0.31	0.37
Dryer Operator	11	0	0.32	0.83
Paste/LoSope Charge	14	2	0.43	1.60
PVC Bagger	13	0	0.21	0.33
PVC Warehouseman	2	0	0.13	0.14
Pearl Charge Operator	2	0	0.28	0.32
Poly/Dryer Leaderman	7	2	8.29	56.0

* One exposure of greater than 1 ppm occurred without respirator and a B of I was held.

III. METHANOL (OSHA PEL = 200 ppm, 8-HR TWA)
(OSHA STEL = 250 ppm, 15-MIN. TWA)

One pearl charge operator was monitored for short-term exposure while pumping polyvic and methanol into a poly. The result was 153.0 ppm.

IV. TETRAHYDROFURAN (OSHA PEL = 200 ppm, 8-HR TWA)
(OSHA STEL = 250 ppm, 15-MIN. TWA)

One dryer operator was monitored for long-term exposure while cleaning ultrafiltration cabinets. The result was 500.00 ppm. The operator was wearing a respirator.

V. NUISANCE DUST (OSHA PEL TOTAL DUST = 15 mg/M³, 8-HR TWA)
(OSHA PEL RESPIRABLE DUST = 5 mg/M³, 8-HR TWA)

Operators in the Compounding building and Dryer building were monitored for total dust (PVC) and respirable dust (unspecified).

<u>TYPE</u>	<u>JOB CLASS</u>	<u>NO. OF MONITORINGS</u>	<u>AVERAGE EXPOSURE mg/M³</u>	<u>MAXIMUM EXPOSURE mg/M³</u>
Total - PVC	Dryer Operator	4	0.49	0.89
	Bagger	4	0.31	0.68
Respirable - Unspecified	Henschel Operator	2	0.76	0.97

VI. PEL EXCEEDANCE INVESTIGATIONS

Vinyl Chloride - On January 27, 1993 a recovery operator received a VCL exposure of 3.2 ppm without a respirator.

The recovery operator rinsed blend tanks, had an equipment opening on a compressor and removed strainer basket cleanings from the Poly Building. The operator assisted another operator on a leaking condenser flange gasket while standing near building ventilation system.

The cause of the exposure is unknown. Corrective actions may help to determine the cause.

Corrective Actions include:

- A. S&E operator will monitor area while rinsing blend tanks.
- B. Take area monitoring samples of dispersion strainer cleanings.
- C. Both of the above jobs will require respirator protection until monitoring results are complete.

NGC 14679

VII. MEDICAL SURVEILLANCE SUMMARY

Total number of Examinations - 21

Number of Examinations which showed:

a. Hearing loss - 0

Please call me at 9408 if you have any questions on this information.


Scott Johnson

SJ/bs/9515

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NGC 14680