

THE **GEON** COMPANY

INTER-ORGANIZATION CORRESPONDENCE

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			January 28, 1994

Fourth Quarter 1993 Industrial Hygiene Summary - Geon Plant

Henry Plant personnel monitoring results for October through December of 1993 are summarized as follows:

- I. NOISE (Geon 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>MAXIMU EXPOSU (% DOS)</u>
Dryer Bldg. (732)	PVC Bagger	2	0/2	164.5	174.0
	Dryer Operator	3	1/2	131.1	158.2
	Maintenance Man	1	0/0	39.0	39.0
	Leaderman	1	0/0	3.50	3.50
Poly Bldg. (731)	Recovery Operator	2	1/0	33.0	59.2
	Maintenance Man	2	0/0	29.9	34.5
Compounding (741)	Mill operator	4	1/3	142.5	215.0
	Packager	2	2/0	62.1	70.5
	Relief Operator	2	2/0	88.6	90.1
	Henschel Operator	1	1/0	89.7	89.7
	Lab Operator	1	0/0	4.00	4.00

NGC 15537

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

During the fourth quarter of 1993 there were 10 monitorings completed for vinyl chloride exposure (3 poly/7 dryer). Of the total monitorings, none exceeded 1 ppm and 8 (80%) 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 (p</u>
Tank Farm Operator	1	0	0.25	0.25
PVC Bagger	4	0	0.26	0.36
Dryer Operator	3	0	0.38	0.77
Paste/Losope Charge	1	0	0.28	0.28
HRC Polycleaner/Helper	1	0	0.69	0.69

III. Nuisance Dust (OSHA Pel total dust =15mg/m³,8-HR TWA)
(OSHA Pel respirable dust =5mg/m³,8-HR TWA)

Operators in the Compound building & dryer building were monitered for total dust (unspecified) and Respirable dust (unspecified and PVC)

<u>TYPE</u>	<u>JOB CLASS</u>	<u>No of MONITERINGS</u>	<u>AVERAGE EXPOSE mg/m³</u>	<u>MAXIMUM explosive mg/m³</u>
Respirable	Leaderman	1	0.18	0.18
PVC	Dryer Operator	1	0.15	0.15
	Resin Reclaim Oper.	1	0.41	0.41
	PVC Bagger	1	0.92	0.92
Total-	Compound Packager	3	0.29	0.43
Unspecified	Compound Henschel Operator	2	0.17	0.28
Respirable	Compound Henschel			
Unspecified	Operator	2	0.14	0.20

IV. HEAVY METALS

Compound Henschel operators, and compound relief operators were monitored for heavy metal exposure.

There were no exposures exceeding the permissible exposure limits. The PEL'S are shown in parenthesis next to the metal name. The number of samples taken is shown in parenthesis next to the average exposure.

<u>Heavy Metal</u>	<u>Henschel Oper.</u>	<u>Relief Oper.</u>
Antimony (500ug/m ³)	0.39ug/m ³ (2)	0.45ug/m ³ (2)
Barium (0.5mg/m ³)	0.00mg/m ³ (1)	0.00mg/m ³ (1)
Cadmium (5ug/m ³)	0.06ug/m ³ (2)	0.05ug/m ³ (2)
Chromium (500ug/m ³)	0.47ug/m ³ (1)	0.47ug/m ³ (1)
Lead (50ug/m ³)	0.24ug/m ³ (1)	0.24ug/m ³ (1)
Nickel (1mg/m ³)	0.00mg/m ³ (2)	0.00mg/m ³ (2)
Zinc (10ug/m ³)	0.55ug/m ³ (1)	0.57ug/m ³ (1)

V. MEDICAL SURVEILLANCE SUMMARY

Total number of Examinations - 32

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/sm/9324

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File

NGC 15539