

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 January 30, 1995
SUBJECT			

1994 INDUSTRIAL HYGIENE SUMMARY - GEON PLANT

Henry Plant personell monitoring results for January through December of 1994 are summarized as follows:

- I. NOISE (Geon Exposure Limit = 50% dose)
(OSHA PEL = 100% dose)
No exposure without hearing protection occurred in 1994.

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)	PVC Bagger	11	2/7	105.6	164.0
	Dryer Oper.	11	1/7	122.8	240.8
	Maint. Mech.	2	0/0	18.8	23.1
	Maint. Welder	1	0/0	69.0	69.0
	Maint. Elect.	2	0/0	17.4	22.6
	Maint. Instr. Man	1	0/0	14.1	14.1
Poly Bldg. (731)	Foreman	5	1/10	57.3	87.4
	Recovery Oper.	5	0/0	47.5	72.2
	Pearl Charge Operator	1	0/0	35.8	35.8
	HRC				
	Polycleaner/Helper	4	0/2	89.8	140.9
	Paste/Losope				
	Charge/Oper.	13	0/2	52.3	131.6
	Maint. Mech.	4	0/0	37.3	69.0
Compounding (741)	Relief Oper.	4	0/4	138.7	195.2
	Mill Operator	3	0/2	142.9	208.9
	Lab. Operator	4	0/0	11.1	34.3
	Packager	2	0/0	66.1	76.2
	Henschel Oper.	3	0/1	88.3	121.6
	Maint. Mech.	2	0/1	130.2	190.6
Boiler House (719)	Maint.				
	Instrument man	1	0/0	38.7	38.7

NGC 14708

I. VINYL CHLORIDE (OSHA PEL = 1 PPM, 8-HR TWA)

During 1994 there were 82 monitorings completed for vinyl chloride exposure (38 poly/44 dryer). Of the total monitorings, four (4) exceeded 1 ppm and 55 (67%) were below 0.5 ppm. No Exposures of greater than 1 ppm without a respirator occurred in 1994. 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	7	0	0.45	0.78
Resin Reclaim oper.	8	1	0.64	1.20
Dryer operator	16	1	0.47	1.10
Paste/Losope Charge	16	2	0.44	1.30
PVC Bagger	16	0	0.36	0.72
Poly/Dryer Leaderman	4	0	0.29	0.56
Poly/ Dryer Foreman	4	0	0.20	0.46
Catalyst Make-up Man	1	0	0.15	0.15
Safety & Environ. Oper.	1	0	0.07	0.07
Tank Farm Operator	1	0	0.10	0.10
HRC Poly Cleaner/Helper	8	0	0.42	0.86

NGC 14709

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

During 1994 Operators in the Compound building & dryer building were monitored for total dust (unspecified and PVC) and respirable dust (PVC and unspecified). No exposures occurred in 1994. The summary is as follows:

<u>TYPE</u>	<u>JOB CLASS</u>	<u>No of MONITORINGS</u>	<u>AVERAGE EXPOSURE mc/m³</u>	<u>MAXIMUM EXPOSURE mc/m³</u>
Total -PVC	Dryer Operator	3	3.48	7.48
	PVC Bagger	4	1.80	4.36
	Leaderman	1	1.02	1.02
Total - Unspecified	Compound Mill	1	0.65	0.65
	Operator			
	Compound Henschel	1	0.51	0.51
	Packager			
	Compound Packager	1	0.29	0.29
Respirable PVC	Dryer Operator	1	0.09	0.09
	PVC Bagger	2	0.68	0.96
Respirable Unspecified	Compound Henschel Operator	1	0.00	0.00

NGC 14710

IV. HEAVY METALS

Compound Henschel operators, and compound relief operators were monitored for heavy metal exposure during 1994.

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)	0.04ug/m ³ (4)	0.04ug/m ³ (4)
Nickel (1mg/m ³)	0.00mg/m ³ (4)	0.00mg/m ³ (4)
Zinc (10ug/m ³)	0.13ug/m ³ (2)	0.15ug/m ³ (2)

NGC 14711

V. MEDICAL SURVEILLANCE SUMMARY

Total number of Examinations in 1994 = 102
Number of examinations which showed;

a. Hearing loss - 0

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



Scott D. Johnson

CC. R.D. Moore
R.D. Webber
S.J. Mathers
K.W. Frather
M.G. Guyer
T. Grabenstetter

D.L. Piccinelli
J. Gressler - Cleveland
E.L. Beeler - Cleveland
S&E Operator (1)
PVC Foreman (4)
File

SJ/Hygiene/sm

NGC 14712