

From: R&D Center - 401-3X9B
WIN: 236-1362
Date: September 10, 1987
Subject: AIR SAMPLING RECORD - SHARON PLANT

To: F. G. Grigsby - Gateway

As requested, I reviewed all of the air sampling records for the Sharon Plant from 1970. Attached is a summary of the results and the corresponding OSHA permissible exposure limit. From 1970 to 1987 there were 111 air samples taken for (W) Sharon employees for various materials and only (3) results exceeded any OSHA limit, i.e., samples Nos. 4645, 5708 and 5710. The rest of the results were well below the OSHA limits and in some cases the employees were also wearing a respirator which would have further reduced any air contaminants.

Starting in 1985, Bittman Nuclear [a (W) subsidiary] performed a clean-up of PCB's. Additional air samples were taken during this clean-up and their employees were wearing full protective clothing and respirators.

Again, most of these results were well below the OSHA limit with only 3 out of the 24 samples above the limit.

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Environmental Affairs

/ehw

Attachment

MINERAL SPIRITS DATA

Sample Type		Sampling For	Results	Limit
	Area	Mineral Spirits	20 ppm	PEL = petroleum distillates 5(M) ppm
	"	"	10 ppm	
	"	"	50 ppm	
	"	"	10 ppm	
	"	"	10 ppm	
	"	"	10 ppm	
	"	"	170 ppm	
	"	"	70 ppm	
1-7-75	"	Welding Fume	<0.7 mg/m ³	PEL = Iron Oxide Fume = 10.0 mg/m ³
"	"	"	<0.9 mg/m ³	
"	"	"	<0.9 mg/m ³	
"	"	"	2.3 mg/m ³	
"	"	"	1.4 mg/m ³	
"	"	"	<1.0 mg/m ³	
"	"	"	<1.0 mg/m ³	
"	"	"	1.0 mg/m ³	
5-16-75	Operator B.Z.	Asbestos	Fiber Count/CC = 7.91	PEL = Asbestos = 5 f/5u/cm ³ (July 1972)
"	Area	"	" " = 1.90	
"	"	"	" " = 0.126	
"	"	"	" " = 0.5	
"	"	"	" " = 0.5	
7-22-76	Lena Wilson	"	0.06 Fibers/CC	"
7-28-76	Donna Moore	"	<0.02 "	"

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ANALYSIS DATA

Sample Type	Sampling For	Results	Limit	
Margaret Y. Seiple	Asbestos	0.03 Fibers/CC	PEL = 2 f/5w/cm ³ Ceiling 10 f/5w/cm ³ (July 1976)	10
Area	"	0.03 "	"	10
"	"	0.02 "	"	10
"	"	<0.02 "	"	10
James Shafer	"	<0.02 "	"	51
Area	"	<0.02 "	"	51
Thomas Skinner	"	<0.02 "	"	51
Thomas H. Davis	Lead-Tin-Cadmium	0.037 mg/m ³ Pb <0.00011 " Cd <0.00056 " Sn	PEL = Lead = 200 µg/m ³ , Cadmium = 0.1 mg/m ³ , Tin = 2.0 mg/m ³	51
John Polonsky	"	0.026 " Pb 0.000717 " Cd <0.00063 " Sn	"	51
John H. Smith	"	0.060 " Pb 0.000367 " Cd <0.00055 " Sn	"	51
John Polonsky	"	0.019 " Pb 0.00025 " Cd <0.00056 " Sn	"	51
Lee Cunningham	Dust	0.40 mg/m ³	PEL = Total Dust = 15 mg/m ³	51
Carroll Sauceman	"	0.52 mg/m ³	"	51
George Benka	"	0.03 mg/m ³	"	51

HWBB-0044081

Date	Sample Type	Sampling For	Results	LU
5-11-77	George Benka	Dust	0.06 mg/m ³	Total Dust 15 mg/l
5-11-77	Al Langiotti	Asbestos	Sample Voided	PEL = 2f>5u/ (1976)
5-10-77	"	"	"	
Not Recorded	Thomas McEntire	"	"	
5-23-77	Joe Sternthal	Dust	5.590 mg/m ³	PEL = Total Dust = 10 mg/m ³
5-24-77	Area	"	0.486 mg/m ³	"
5-24-77	"	"	0.662 mg/m ³	"
5-25-77	"	"	0.362 mg/m ³	"
6-1-77	"	"	0.257 mg/m ³	"
6-2-77	"	"	1.145 mg/m ³	"
"	"	"	0.103 mg/m ³	"
5-12-77	"	"	0.676 mg/m ³	"
"	"	"	2.763 mg/m ³	"
6-2-77	"	"	0.742 mg/m ³	"
"	"	"	0.342 mg/m ³	PEL = Total Dust = 15.0
"	"	"	0.419 mg/m ³	"
6-1-77	"	"	0.257 mg/m ³	"
7-15-77	"	Asbestos	<0.03	PEL = 2f>5u/cm ³ , Ceiling =
7-15-77	"	"	<0.03	

HABB-0044082

03254269

Date	Sample Type	Sampling For	Results	Limit
11-1-77	George Kovach	Iron Oxide	2.10 mg/m ³	Iron Oxide = 10 mg/m ³ = P
11-1-77	William Perrotti	"	2.18 mg/m ³	"
11-1-77	John Wolfe	"	4.63 mg/m ³	"
"	"	"	7.07 mg/m ³	"
"	Jim Grove	"	4.26 mg/m ³	"
"	Sam Serrian	"	1.19 mg/m ³	"
"	John Wolfe	"	10.83 mg/m ³	"
"	George Kovach	"	2.64 mg/m ³	"
"	"	"	3.80 mg/m ³	"
11-4-77	John Wolfe	"	2.13 mg/m ³	"
"	Jim Grove	"	3.18 mg/m ³	"
"	William Perrotti	"	1.96 mg/m ³	"
11-3-77	John Wolfe	"	7.07 mg/m ³	"
"	Sam Serrian	"	3.94 mg/m ³	"
"	Jim Grove	"	8.34 mg/m ³	"
"	Boris Milankovich	"	4.97 mg/m ³	"
"	"	"	3.29 mg/m ³	"
1-26-78	William A. Thomas	Dust, Trimellitic Anhydride	21.84 mg/m ³	Total Dust = PEL = 15 mg/m ³
"	Area	"	1.53 mg/m ³	Not specific analy for TMA

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SAMPLING DATA

HDB-000-0008

Sample Type	Sampling For	Results	Limit	
Ralph Harkless	Dust, Trimellitic Anhydride	22.97 mg/m^3	Total Dust = PEL = 15 mg/m^3 Not Specific analysis for THA	
Area	"	0.55 mg/m^3	"	
"	"	0.41 mg/m^3	"	
"	"	0.38 mg/m^3	"	
Area	Asbestos	.0034 fibers/cc	PEL = Asbestos = 2f > 5u/cm ³ 10f > 5u/cm ³ (1976)	6159
"	"	.0065 "		6160
"	"	.0098 "		6161
"	"	.0034		6400
Sam Corrigan	Iron Oxide, Chromium, Nickel	Cr = 0.0036 mg/m^3 Fe = 0.2065 " Ni = 0.0024 "	PEL = Chromium = 1.0 mg/m^3 , Iron Oxide = 10.0 mg/m^3 , Nickel = 1.0 mg/m^3	6401
"	"	Cr = 0.0012 " Fe = 0.348 " Ni = 0.001 "	"	6402
Joe Marshall	"	Cr = 0.0032 " Fe = 1.43 " Ni = 0.001 "	"	6403
"	"	Cr = 0.0018 " Fe = 0.094 " Ni = 0.001 "	"	6404
Ted Niec	"	Cr = 0.0028 " Fe = 0.191 " Ni = N.D. <0.2 mg	"	6405
"	"	Cr = 0.002 " Fe = 0.187 " Ni = 0.0017 "	"	

03254271

	Sample Type	Sampling For	Results	Limit
	George Kovach	Fe, Ni, Cr	Cr = 0.003 mg/m ³ Fe = 2.20 " Ni = 0.002 "	PEL = Chromium = 1.0 Iron Oxide = 10 Nickel = 1.0 mg
	"	"	Cr = 0.002 " Fe = 0.196 " Ni = 0.001 "	"
	Andrew Danos	"	Cr = 0.004 " Fe = 0.225 " Ni = 0.001 "	"
	"	"	Cr = 0.0018 " Fe = 0.193 " Ni = 0.001 "	"
	Bill Black	Lead & Chromium	Cr = 0.0016 "	"
	John Polonsky	"	Cr = 0.0025 "	"
4-9-79	Bob Gotch	Lead	1.93 mg/m ³	PEL = 200 µg/m ³ (1979)
"	Bob Flynn	"	2.26 mg/m ³	"
"	Donald Muffly	"	1.10 mg/m ³	"
"	Cashmere Dyll	"	0.66 mg/m ³	"
10-11-79	Bob McGill	Dust	0.4052 mg/m ³	PEL =
"	Steve Ondrej	"	0.209 mg/m ³	Total Dust = 15 mg/m ³
10-15-79	John Puhl	"	0.4598 mg/m ³	
10-15-79	Steve Ondrej	"	0.2975 mg/m ³	Total Dust 15 mg/m ³ Respirable Dust =
2-25-80	Glenn Holton	Resp. Dust	0.8155 mg/m ³	5 mg/m ³ = PEL

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DATA

Date	Sample Type	Sampling For	Results	Limit
8-14-80	Alphonse Langiotti	Asbestos	0.012 Fibers/CC	Asbestos = 2
"	Thomas McEntire	"	0.0056 "	Ceiling = 10f
10-6-81	Dale McGonagle	PCB	None detected	OSHA PEL (19
"	Howard Meislik	"	"	Chlorodiphenyl
"	Jerry Nichols	"	0.59 mg/m ³	1.0 mg/m ³
2-24-83	Area	"	1.32 mg/l	"
"	"	"	None detected	"
"	"	"	"	"
"	"	"	"	"
9-27-85	Dave Schneider	Dust	2.9 mg/m ³	Dust = 15 mg/m ³
"	Charles Simpson	PCB	<0.70 mg/m ³	Chlorodiphenyl =
"	Charles Tarr	"	0.79 mg/m ³	1.0 mg/m ³
10-17-85	Eric Woodling	Dust/PCB	0.5 mg/m ³	"
10-18-85	Richard McCauley	PCB	1.4 mg/m ³	"
10-30-85	Thomas Anthony Zagrocki, Jr.	"	<0.05 mg/m ³	"
11-1-85	Robert Edward Eversizer	"	<.00005 mg/m ³	"
11-18-85	Joe Gregg	"	<.001 mg/m ³	"
11-22-85	David Paul Schneider	"	<.001 mg/m ³	"
9-27-85	Dave Schneider	"	2.9 mg/m ³	"
"	Charles Simpson	"	<.0007 mg/m ³	"
"	Charles Tarr	"	<.00079 mg/m ³	"

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Date	Sample Type	Sampling For	Results	Limit	
11-1-85	Robert Edward Evelsizer	PCB	<.000005 mg/m ³	Chlorodiphenyl = 1.0 mg/m ³	120
11-18-85	Joe Gregg	"	<.001 mg/m ³	"	120
11-22-85	David Paul Schneider	"	<.001 mg/m ³	"	120
9-27-85	Charles Simpson	"	<.0007 mg/m ³	"	120
"	Charles Tarr	"	.00075 mg/m ³	"	120
"	Dave Schneider	"	2.9 mg/m ³	"	120
10-17-85	Eric Wnoding	PCB/Dust	0.5 mg/m ³ (PCB 1254 <0.0003 mg/m ³)	Dust = 15 mg/m ³	120
10-18-85	Richard McCauley	"	1.4 mg/m ³ (PCB 1254 <0.0004 mg/m ³)	"	120
10-30-85	Thomas Anthony Zagrocki, Jr.	PCB	0.0025 mg/m ³	Chlorodiphenyl = 1.0 mg/m ³	115
4-7-86	Harry B. Ansell	"	<0.002 mg/m ³	"	119
"	Fred M. Malloy	"	<0.002 mg/m ³	"	119
5-21-87	William A. Buniekas	"	<.000004 mg/m ³	"	119

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