

MAR 1 1978

FROM E. B. Parker
Rockdale Works

TO Dr. B. D. Dinman
Pittsburgh Office

1978 February 27

Handwritten initials and signature

RE: INDUSTRIAL HYGIENE TEST RESULTS

Attached is a copy of correspondence and data received from Carl Halgren, OSHA Industrial Hygienist. Except for resampling in the Press Room, this completes Mr. Halgren's current work at Rockdale. The Press Room CTPV tests, as you will recall, were confused with oil mist and Mr. Halgren wants to return to Rockdale to repeat that portion of his work.

Handwritten signature of E. B. Parker
E. B. Parker

EBP/bk

Copies:

- ✓ T. B. Bonney, Pittsburgh
- W. J. Drake, Rockdale
- J. W. Havins, Rockdale
- W. D. Essary, Rockdale
- H. W. Brooks, Rockdale
- E. R. Goltra, M.D., Rockdale
- A. G. Clayton, Rockdale

**PLAINTIFF'S
EXHIBIT**

AL-56

ARD 003465



U.S. DEPARTMENT OF LABOR
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
Suite 310, American Bank Tower
221 West Sixth Street
Austin, Texas 78701

(512) 397-5783

February 6, 1978



Mr. E. Brooks Parker
Environmental Superintendent
Aluminum Company of America
P.O. Box 472
Rockdale, Texas 76567

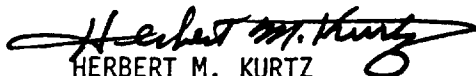
Ref: H7471-044

Dear Mr. Parker:

As requested by J. J. Congleton, enclosed are copies of all sampling results obtained by OSHA during the referenced inspection. Also enclosed are the analytical techniques of the various sampled compounds.

If you have any questions or require further information, please do not hesitate to call.

Sincerely,


HERBERT M. KURTZ
Area Director

HMK:CAH:dt

Enclosures - Sample Results

ARD 003466

ANALYTICAL TECHNIQUES

1. Asbestos: Filters were examined by phase contrast microscopy.
Method No.: P&CAM 239
2. Coal Tar Pitch Volatiles: Method No.: P&CAM 217 for Benzene
Soluble compounds
3. Fluoride: Sample was fused with NaOH, neutralized, and analyzed
by the standard Orion fluoride electrode. Method No.:
P&CAM 117
4. Hydrogen Fluoride: Sample was desorbed with dionized water,
neutralized, and analyzed by the standard
Orion fluoride electrode. Method No.:
P&CAM 117
5. Noise: Audio dosimetry
6. Nuisance Dust: Retaring of filter with analytical balance

NOTE: P&CAM numbers are in: NIOSH Manual of Analytical Methods, Second Edition, Volume 1, U.S. Dept. of H.E.W., Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, April 1977.

DATE SAMPLED	EMPLOYEE	JOB DESCRIPTION	NUISANCE DUST [*] (mg/m ³)	ASBESTOS (fibers/cc)	()
11-8-77	R.V. Schnider	Furnace Operator	0.15	-	
"	C. Robison	Cast Pour Helper	1.80	-	
11-9-77	E. Wilburn	Ball mill Operator	0.71	-	
11-10-77	J. Bielss	Butt Crusher Operator	1.70	-	
"	D. Perry	Anode Cleaning Machine Op.	0.44	-	
"	G. Coulter	"	0.51	-	
11-11-77	G. Hosh	Front end Loader Op.	5.37	-	
"	R. Mazac	Sweeper Operator	0.82	-	
"	R. Reyes	Fork lift Operator	3.30	-	
11-18-77	D. Brasher	Ore Bridge Operator	3.21	-	
"	H. Weems	Ore Unloader	5.00	-	
"	J. Sanders	Ore Unloader	2.27	-	
11-18-77	A. Kortis	Pot liner	-	0.080	
"	S. Peavy	Pot liner	-	0.115	

Standards: 1) Nuisance Dust -- respirable fraction -- = 5.0 mg/m³
 2) Asbestos -- 2.0 fibers/cc
 3)

* - Represents 8 hour Time Weighted Average

DATE SAMPLED	EMPLOYEE	JOB DESCRIPTION	NOISE (%)	()	()
11-4-77	P. Gates	Mixer Operator	20		
"	E. Wilburn	Ball Mill Operator	59		
"	C. Alford	Butt Crusher Operator	43		
11-8-77	B. Rubac	DC Operator	120		
"	E. Marek	Furnace Operator	74		
"	D. Schimank	Equipment Operator	38		
"	E. Kaderka	Cast Pour Helper	97		
"	H. Turnipseed	Foreman - Casting	51		
11-9-77	G. White	Furnace Helper	0		
"	W. Dunn	Furnace Helper	72		
"	D. Wright	Rodding Operator	125		
11-10-77	D. Wright	Rodding Operator	99		
"	F. Knappek	Stub Press Operator	228		
"	J. Scott	Red Press/Hooker Operator	102		

Standards: 1) Noise = 100% (corresponds to 90 dBA for 8 hours)
 2)
 3)

DATE SAMPLED	EMPLOYEE	JOB DESCRIPTION	CTPV (mg/m ³)	BaP (ug/m ³)	BaP/CTPV (%)
11-8-77	T. Roy	Packer/Unpacker Bldg 60	0.067	0.66	0.98
"	D. Jackson	Brick mason Bldg 60	0.053	2.44	4.60
"	J. Hollie	Crane Operator Bldg 60	0.064	0.76	1.18
"	Area Sample	Crane - Bldg 60	0.066	0.83	1.26
"	P. Gates	Mixer Operator	0.208	4.09	1.97
"	Area Sample	Mixer room	0.195	8.92	4.57
"	F. Dornhoefer	Press Operator	0.97	1.58	0.16
11-9-77	J. Dairy	Packer/unpacker Bldg 58	0.103	1.07	1.03
"	I. Basey	Packer/unpacker Bldg 58	0.022	0.33	1.50
"	L. Grandham	Crane Operator Bldg 58	0.083	0.51	0.61
"	A. Maer	Crane Operator Bldg 58	none detected	0.36	—
"	P. Gates	Mixer Operator	0.123	1.86	1.51
"	Area Sample	Mixer room	0.109	2.49	2.28
"	B. LaRue	Production Helper	0.347	4.39	1.26

Standards: 1) CTPV = 0.2 mg/m³ - (8 hour TWA)
 2) BaP = none
 3)

CTPV = Coal Tar Pitch Volatiles
 BaP = Benzo- α -Pyrene

ARD 003470

DATE SAMPLED	EMPLOYEE	JOB DESCRIPTION	Particulate Fluoride (mg/m ³)	Hydrogen Fluoride (mg/m ³)	Total Fluoride (mg/m ³)
11-10-77	J. Reese	Piddler Rm 8	0.75	0.30	1.05
"	J. Tompkins	Pot tender Rm 8	0.22	0.39	0.61
"	J. Hendrix	Head tapper Rm 8	0.88	0.38	1.26
"	I. San Miguel	Pot tender Rm 8	0.38	0.50	0.88
"	W. Zamorski	Carbon setter Rm 8	0.68	0.75	1.43
"	E. Garcia	Crane Operator Rm 8	0.71	0.72	1.43
"	Area Sample	Crane Rm 8	0.44	0.80	1.24
11-11-77	T. Hopes	Carbon setter Rm 20	0.45	0.59	1.04
"	M. Wiederhold	Head tapper Rm 20	1.86	0.50	2.36
"	W. Fleming Jr.	Crane Operator Rm 20	0.54	0.89	1.43
"	M. Jackson	Pot tender Rm 20	0.65	0.41	1.06
"	J. Hurt	Pot tender Rm 20	0.32	0.56	0.88
"	C. Griffith	Piddler Rm 20	0.35	0.26	0.61
"	Area Sample	Pot 37 Rm 20	0.14	0.87	1.01

Standards: 1) Particulate Fluoride = 2.5 mg/m³
 2) Hydrogen Fluoride = 3 ppm $\approx$ 2.5 mg/m³
 3)

DATE SAMPLED	EMPLOYEE	JOB DESCRIPTION	Particulate Fluoride (mg/m ³)	Hydrogen Fluoride (mg/m ³)	Total Fluoride (mg/m ³)
11-17-77	Y.R. Delgado	Head tapper Rm 132	0.16	0.45	0.61
	D.R. Wiederhold	Carbon setter Rm 132	0.15	0.68	0.83
	O. Montoya	Crane Operator Rm 132	0.18	0.51	0.69
	Area Sample	Crane Rm 132	0.11	0.68	0.79
	C. Drennan	Pot tender Rm 132	0.21	0.58	0.79
	O.W. Bullock	Pot tender Rm 132	0.41	0.49	0.90
	G. Patschke	Piddler Rm 132	0.33	0.36	0.69
12-18-77	R.G. Wells	Bag changer	0.21	0.10	0.31
	D. Edmonds	Bag changer	0.21	0.09	0.30

APD 003472

- Standards:
- 1) Particulate Fluoride = 2.5 mg/m³
 - 2) Hydrogen Fluoride = 3 ppm $\approx$ 2.5 mg/m³
 - 3)

DATE SAMPLED	EMPLOYEE	JOB DESCRIPTION	Particulate Fluoride (mg/m ³) (F ⁻)	Hydrogen Fluoride (mg/m ³)	Total Fluoride (mg/m ³)
12-13-77	Area Sample	Room 10	0.35	0.38	0.73
"	R. Challett	Crane man Rm 10	0.35	0.87	1.22
"	Area Sample	Crane Rm 10	0.47	1.14	1.61
"	F. Riley	head tapper Rm 10	0.58	0.69	1.27
"	R. Evan	Pot tender Rm 10	0.57	0.37	0.94
"	M.G. Mauldin	Carbon setter Rm 20	0.65	0.61	1.26
"	Area Sample	Pot 36 Rm 20	0.37	0.73 (filter)	1.10
"	Area Sample	Pot 36 Rm 20	0.23	0.67 (impinger)	0.90
"	Area Sample	Pot 10 Rm 20	0.40	0.76 (impinger)	1.16
"	Area Sample	Pot 60 Rm 20	0.18	0.76 (impinger)	0.94
12-19-77	H.D. Solomon	Craneman Rm 8	0.42	0.79	1.21
	R. Parzak	Carbon setter Rm 8	0.71	0.80	1.51
	M. Lewis	head tapper Rm 8	0.76	0.71	1.47

- Standards:
- 1) Particulate fluoride = 2.5 mg/m³
 - 2) Hydrogen fluoride = 3 ppm $\approx$ 2.5 mg/m³
 - 3)

Standards: 1) Particulate Fluoride = 2.5 mg/m^3
2) Hydrogen Fluoride = $3 \text{ ppm} \approx 2.5 \text{ mg/m}^3$
3)