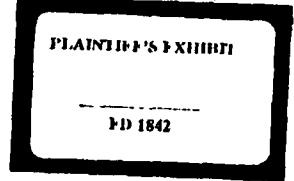




Cleveland Casting



Inter Office

Personnel and Organization Staff

10 February 1984

Mr. D. S. Sugano

cc F. V. Viola, III, M.D.
L. M. Roslinski

Subject: OCCUPATIONAL STRESSES OF CLEVELAND CASTING PLANT EMPLOYEES

As you requested, we reviewed the job classifications by department of Cleveland Casting Plant Employees and compared them with occupational job stresses encountered. The stresses identified include:

Alcohols	Dust, Smoke	Metal Oxides
Ammonia	Formaldehyde	Noise
Asbestos	Free Silica	Polynuclear Aromatics
Carbon Monoxide	Heat	Styrene
Chlorinated Solvents	Isocyanates	Triethylamine
Chromium & Chromates	Ketones	Vibration

Attached is a summary by plant department of our analysis.

The code is as follows:

- A = Employees probably will never be exposed in excess of the action level (1/2 PEL).
- B = Employees probably will be exposed only a limited number of times in excess of the action level.
- C = Employees will consistently be exposed in excess of the action level and could be exposed at some times in excess of the PEL.

The above comments are based on experience, observations, sensory reactions, and limited monitoring data; therefore, they are general, out of necessity. If you have any questions or require further explanation, please call.

S. S. Mingela
S. S. Mingela

H. B. Lick
H. B. Lick

jb

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OCCUPATIONAL STRESSES SUMMARY -- CLEVELAND CASTING PLANT EMPLOYEES

<u>OCCUPATIONAL STRESSES</u>	<u>Plt Mgr Office 4701</u>	<u>Quality Control 4707</u>	<u>Plt Cont Office 4710</u>	<u>Fac & Equip Engrg 4711</u>	<u>Produc- tivity Imp 4712</u>	<u>Ind Rel 4714</u>	<u>Prod Cont 4720</u>	<u>Garage 4730</u>	<u>Non-Prod Stock 4740</u>	<u>Maint 4741</u>	<u>Envir Cont 4742</u>
Alcohols	A	B	A	A	A	A	A	A	A	A	A
Ammonia	A	B	A	A	A	A	A	A	A	A	B
Asbestos	A	A	A	A	A	A	A	B	A	B	B
Carbon Monoxide	B	B	A	L	A	B	B	B	A	B	B
Chlorinated Solvents	A	A	A	A	A	A	A	B	A	A	A
Chromium & Chromates	A	B	A	A	A	A	A	A	A	A	A
Dust, Smoke	B	B	A	B	A	B	B	A	A	C	C
Formaldehyde	B	B	A	B	A	B	B	A	A	B	B
Free Silica	B	B	A	B	A	B	B	A	A	C	C
Heat	A	A	A	A	A	A	A	A	A	A	B
Isocyanates	A	A	A	B	A	A	A	A	A	A	B
Ketone	A	A	A	A	A	A	A	A	A	A	A
Metal Oxides	A	B	A	B	A	B	A	A	A	A	B
Noise	B	B	A	B	B	B	B	B	A	C	C
Polymers	B	B	A	B	A	B	B	A	A	B	B
Styrene	A	B	A	A	A	A	A	A	A	A	A
Triethylene Glycol	A	B	A	B	A	B	A	A	A	A	B
Vibration	A	A	A	A	A	A	A	A	A	A	B

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OCCUPATIONAL STRESSES SUMMARY -- CLEVELAND CASTING PLANT EMPLOYEES

OCCUPATIONAL STRESSES	Melt Maint 4743	Cleaning 4746	Pattern Shops 4751	Melting 4782	Sweeping Cleaning 4783	Molding 4784-4785	Core Rooms 4786-4787	Cleaning Rooms 4788-4789	Welding 4792
Alcohols	A	A	B	A	A	B	B	A	A
Ammonia	A	A	A	A	A	A	C	A	A
Asbestos	B	A	A	B	A	A	A	A	B
Carbon Monoxide	B	A	A	C	C	C	A	B	B
Chlorinated Solvents	A	A	C	A	A	B	C	A	A
Chromium & Chromates	B	B	A	B	A	A	A	A	A
Dust, Smoke	C	B	B	C	C	C	B	C	C
Formaldehyde	A	A	A	A	B	A	C	A	A
Free Silica	B	A	A	B	C	C	C	B	C
Heat	B	B	A	C	B	A	C	B	C
Isocyanates	A	A	A	A	A	A	C	A	A
Ketones	A	A	C	A	A	A	C	A	A
Metal Oxides	B	A	A	C	B	B	A	A	C
Noise	C	C	B	C	B	C	B	C	B
Polynuclear Aromatics	B	B	A	B	C	C	A	A	B
Styrene	C	A	A	C	A	A	A	A	A
Triethylamine	A	A	A	A	A	A	C	A	A
Vibration	B	B	B	B	A	C	B	C	B

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CLEVELAND CASTING PLANT DEPARTMENT NUMBERS

4702	Plant Manager's Office.....	7112
	Production Oper's Managers Office.....	7114
	Engineering & Prod Cont Mgr's Office.....	7121
4707	Quality Control Manager's Office.....	7133
	Quality Control Inspection.....	7060
	Quality Control Laboratory.....	7234-7235
4710	Plant Controller's Office.....	7131
	Operations Analysis.....	7130
	General Accounting.....	7160
4711	Fac. & Equip. Engrg. Manager's Office.....	7143
	Plant Engineering.....	7209
	Project Engineering.....	7145-7146
4712	Productivity Improvement.....	7192
4714	Industrial Relations Manager's Office.....	7123
4720	Production Control Manager's Office.....	7256
	Receiving.....	7247-7248
	Shipping.....	7053
	Hilo Garage.....	7019
4730	Central Garage.....	7200
4740	Nonproduction Stock.....	228-7229
4741	Maintenance Office.....	7027-7028
	Maintenance - Superintendent's Office.....	7025-7026
4742	Environmental Engineering.....	7164-7167
	Environmental Maintenance.....	7029-7027
4743	Maintenance - Melting & Knockout House.....	7027-7030
4746	Maintenance - Cleaning.....	7022-7027-7039
	Maintenance - Cleaning (Floor).....	7039
4751	Mfg. Engrg. & Pattern Manager's Office.....	7141-7142
	Pattern Mfg. & Repair.....	7050
	Pattern Process & Design.....	7141-7142
	Process Engineering.....	7168
	Industrial Engineering.....	7173
4782	Melting.....	7030-7031
4783	Sweeping and Cleaning.....	7185
4784	Molding - Heads & Small Parts.....	7281-7282
4785	Molding - Blocks.....	7070-7071
4786	Core - Heads & Small Parts.....	7281-7282
4787	Core - Blocks.....	7072
4788	Cleaning - Heads & Small Parts.....	7058
4789	Cleaning - Blocks.....	7058
4792	Welding.....	7058