PLAINTIFF'S EXHIBIT

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UNION CARBIDE

INTERNAL CORRESPONDENCE

3-5-79 Cy: Dr. H. Rhodes, Niagara

MINING AND METALS DIVISION

P O BOX K, KING CITY, CALIFORNIA 93930

(Name) Mr. O. J. Malacarne
nsion Metals Division
cation Grand Junction, CO

Date February 23, 1979

Originating Dept.

Answering letter date

Subject 1978 Sputum Cytology Results

opy to Messrs: R. L. Folkman
E. A. Piersall
F. J. Shortsleeve

Dear Rusty:

I have attached information regarding the Fourth Quarter 1978 Sputum Cytology results from King City. Included are the following:

a) A comparison of King City 1978 results to a survey by Dr. Saccamanno for 2025 non-miners giving sputum cytology results for smokers and non-smokers by age group (Table I).

b) The same information on 1977 results (Table II).

c) Smoking history and work history of the King City Plant population by age group for 1978 (Table III).

A general comparison of 1977 and 1978 results show two employees with repeat mild atypia, one with a mild atypia going to a moderate atypia, seven with mild atypias improving to regular or normal atypias, and thirteen employees showing mild atypias for the first time. Of the thirteen employees showing mild atypias for the first time, seven were tested for the first time in 1979. Also, these same seven people were young (18, 19, 20, 20, 21, 22, and 27) and four of them were non-smokers. This may or may not be significant on a statistical basis, but I question the validity of the results.

The results in Table I are interesting and indicate the following:

a) For non-smokers, where the King City population had five employees with a mild atypia and none with moderate atypical cytology, Dr. Saccamanno's data indicated that we should have had eleven employees with mild atypical and none with moderate atypical cytology.

b) For employees who smoke or did smoke, the King City population had ten employees with mild atypical and one with moderate atypical cytology. Dr. Saccamanno's data indicated that we should have had 23 employees with mild atypical and seven with moderate atypical cytology.

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We should plan on "tracking" these results similar to the HCNC system for audio tests. We plan to have letters sent to employees with either mild or moderate atypias informing them of their sputum cytology results. Dr. Hyde will send these letters including a strong statement on the effects of smoking and a recommendation to quit smoking if they do smoke.

If you want more information or a different breakdown, let me know.

Very truly yours,

Earl W. Shortridge

/ljg

Att: 3

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TABLE I

King City Sputum Cytology Comparison
Actual Versus Predicted From Non-Miner
Population Tested By Dr. Saccomanno

Age Groups	Normal Regular		Mild Atypical		Moderate Atypical		Group Totals
	A*	P*	A	P	A	P	
Non-Smokers							
20	2	3	2	1	0	0	4
20-29	10	8	3	5	0	0	13
30-39	8	4	0	4	0	0	8
40-49	2	1	0	1	0	0	2
50-59	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0
	22	16	5	11	0	0	27
Smokers							
20	1	1	0	0	0	0	1
20-29	9	4	2	6	0	1	11
30-39	11	3	2	9	1	2	14
40-49	6	2	2	4	0	2	8
50-59	2	1	4	3	0	2	6
60-69	1	0	0	1	0	0	1
	30	11	10	23	1	7	41
Grouped Data							
20	3	4	2	1	0	0	5
20-29	19	12	5	11	0	1	24
30-39	19	7	2	13	1	2	22
40-49	8	3	2	5	0	2	10
50-59	2	1	4	3	0	2	6
60-69	1	0	0	1	0	0	1
	52	27	15	34	1	7	68

*A = Actual
*P = Predicted

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TABLE II

KING CITY SPUTUM CYTOLOGY COMPARISON

ACTUAL VERSUS PREDICTED FROM NON-MINER POPULATION
TESTED BY DR. SACCOMANNO

Age Groups	Normal Regular		Mild Atypical		Moderate Atypical		Group Totals
	A*	P*	A	P	A	P	
Non-Smokers							
20-29	9	6	1	3	0	1	10
30-39	8	4	0	4	0	0	8
40-49	1	1	1	1	0	0	2
50-59	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0
	18	11	2	8	0	1	20
Smokers							
20-29	16	6	1	10	0	1	17
30-39	8	3	3	7	0	1	11
40-49	6	2	2	4	0	2	8
50-59	3	1	2	3	0	1	5
60-69	1	1	2	1	0	1	3
	34	13	10	25	0	6	44
Grouped Data							
20-29	25	12	2	13	0	1	27
30-39	16	6	3	11	0	2	19
40-49	7	3	3	5	0	2	10
50-59	3	1	2	3	0	1	5
60-69	1	1	2	1	0	1	3
	62	23	12	33	0	8	64

*Actual
*Predicted

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TABLE III

KING CITY SPUTUM CYTOLOGY SUMMARY

AND POPULATION DESCRIPTION

Category	Age Groups							Dist.
	20	20-29	30-39	40-49	50-59	60-69	Total	%
Employees	5	24	22	10	6	1	68	-
Distribution %	7.4	35.2	32.4	14.7	8.8	1.5	100	-
Smoking History								
Non-Smokers	4	13	8	2	0	0	27	-
Did Smoke	0	5	5	5	1	1	17	-
Smokers	1	6	9	3	5	0	24	-
Total Smokers	1	11	14	8	6	1	41	-
Distribution Smoke %	20.0	45.8	63.6	80.0	100.0	100.0	60.3	-
Non-Smoke %	80.0	54.2	36.4	20.0	0.0	0.0	39.7	-
King City Work Exposure								
0 - 5 years	5	24	2	1	1	0	33	48.6
5 - 10 years	0	0	10	3	1	0	14	20.6
10 - 15 years	0	0	10	4	4	1	19	27.9
15 plus years	0	0	0	2	0	0	2	2.9
								100.0

Sputum Cytology Results	20		20-29		30-39		40-49		50-59		60-69		Total		Dist. %
	NS*	S*	NS	S	NS	S	NS	S	NS	S	NS	S	NS	S	
Normal or Regular	2	1	10	9	8	11	2	6	0	2	0	1	22	30	76.4
Mild	2	0	3	2	0	2	0	2	0	4	0	0	5	10	22.1
Moderate						1							0	1	1.5
Distribution															
Norm-Reg (%)	50	100	77	82	100	79	100	75	0	33	0	100			
Mild (%)	50	0	23	18	0	14	0	25	0	67	0	0			
Moderate (%)						7									

Note: Three employees with unsatisfactory samples were not included in the tabulations.

*NS = Non-Smokers
*S = Smokers or Did Smoke

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