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UNION CARBIDE

INTERNAL CORRESPONDENCE

P. O. Box K

MINING AND METALS DIVISION

P. O. BOX K, KING CITY, CALIFORNIA 93930

To (Name) Mr. O. J. Malacarne
Division Metals Division
Location Grand Junction

Date December 19, 1979

Originating Dept.

Answering letter date

Copy to R. J. Kronkhyte

Subject

(1) cc Dr H.B. Rhodes Niagara

(2) FIL

Dear Rusty:

I am enclosing the 1979 results of the sputum cytology tests. Table I breaks the results down into age groups and into the smoking and non-smoking catagories. I have also shown the employees in these catagories that have greater or less than ten years of service. As in the past, the results are much better than that predicted by Dr. Saccomanno's data. However, when comparing the data for those greater and less than ten years of service there may be some information worth further consideration. We are showing no moderate atypicals in either catagory. However, there is a marked increase in the mild atypicals in both the smokers and non-smokers with over ten years of service. Table II shows the results comparing the greater than and less than ten year exposures for all employees and for only employees over 30 years of age (all the greater than ten year exposed employees are over 30). If, you would like further details on this data, I would be glad to supply them.

Very truly yours,

W B D Atley

W. B. DeAtley

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PLAINTIFF'S EXHIBIT

UC-4008

TABLE I
1979 SPUTUM CYTOLOGY RESULTS
Actual versus Predicted from non-miner
population tested by Dr. Saccomanno

Age Groups	Normal/Reg.				Atypical								Group Totals
					Mild				Moderate				
Non-Smokers	Actual			Pred.	Actual			Pred.	Actual			Pred.	
	≥10*	<10*	T		≥10	<10	T		≥10	<10	T		
20	0	2	2	1	0	0	0	1	0	0	0	0	2
20 - 29	0	17	17	10	0	0	0	6	0	0	0	1	17
30 - 39	2	4	6	4	1	1	2	4	0	0	0	0	8
40 - 49	3	0	3	1	1	0	1	2	0	0	0	1	4
50 - 59	0	0	0	0	0	0	0	0	0	0	0	0	0
60 - 69	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	23	28	16	2	1	3	13	0	0	0	2	31
Smokers													
20	0	0	0	0	0	0	0	0	0	0	0	0	0
20 - 29	0	7	7	3	0	1	1	5	0	0	0	0	8
30 - 39	5	9	14	3	1	0	1	11	0	0	0	1	15
40 - 49	1	3	4	1	1	2	3	4	0	0	0	2	7
50 - 59	2	2	4	1	2	0	2	3	0	0	0	2	6
60 - 69	1	1	2	1	1	0	1	1	0	0	0	1	3
	9	22	31	9	5	3	8	24	0	0	0	6	39
Grouped Data													
20	0	2	2	1	0	0	0	1	0	0	0	0	2
20 - 29	0	24	24	13	0	1	1	11	0	0	0	1	25
30 - 39	7	13	20	7	3	1	4	15	0	0	0	2	24
40 - 49	4	3	7	2	2	2	4	6	0	0	0	3	11
50 - 59	2	2	4	1	2	0	2	3	0	0	0	2	6
60 - 69	1	1	2	1	1	0	1	1	0	0	0	1	3
	14	45	59	25	8	4	11	37	0	0	0	9	71

* Years of King City Exposure

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TABLE II
1979 SPUTUM CYTOLOGY RESULTS
Percentages versus Predicted from non-miner
population tested by Dr. Saccomanno

Groups	Normal/Regular (%)				Mild (%)				Atypical			
	<10*	>10*	T*	P*	<10	>10	T	P	<10	>10	Moderate (%) T	P
Non-Smokers												
All	95	71	90	52	5	29	10	42	0	0	0	6
Over 30	80	71	75	42	20	29	25	50	0	0	0	8
Smokers												
All	88	64	77	23	12	36	23	61	0	0	0	15
Over 30	88	64	77	19	12	36	23	62	0	0	0	19
Total												
All	92	64	84	35	8	36	16	53	0	0	0	12
Over 30	86	64	75	26	14	36	25	58	0	0	0	15

* < 10 = Less than 10 years at King City.
  >10 = Greater than 10 years at King City.
  T = Total
  P = Predicted

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