

IV/MS

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To : Mr. R. Schofield.
Copies : SH,
FWD/SH/Ph.

PRK 2954

1st October, 1969.

Membrane Filter Comparison Results on Cloths Treated
with 5 and 6 Gallon Solutions of RD 1807

(September 1969)

Quality	5 Gallon Solution		6 Gallon Solution	
	Royco (p/oo)	Membrane Filter (f/oo)	Royco (p/oo)	Membrane Filter (f/oo)
K100	0.63	0.68	0.39	0.10
K81	0.35	0.45	0.35	0.39
K152	0.38	0.43	0.63	0.44
K517	0.76	0.59	0.55	0.71
K22	0.67	0.59	0.39	0.44
K272	0.72	0.54	0.34	0.42
WD525	0.12	0.24	0.18	0.30

A statistical analysis of these results indicated that the difference between the 5 and 6 gallon counts is only significant at the 1% level. Both "Royco" and Membrane filter methods show this and therefore it may be that there is a real difference, but further tests would be required, if it was thought necessary to prove this.

Also it has been shown that the correlation between the "Royco" and Membrane filter results in these trials is significant and therefore it is proposed to use the "Royco" automatic counter results to indicate the measure of dust suppression in future. Every "Royco" test will however be accompanied by a Membrane sample and this will only be counted when the former indicates an extraordinary result.

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Dr. S. Holmes

73/8367

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To : AJR,
Copies : SH.

PRK 2971,
8th October, 1969.

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Dust Levels - Crocidolite, Dyrskind, Shad
J.V. Roberts Ltd., Hinderley Green.

As requested, membrane filter samples have been taken whilst the bagging of the "dried" crocidolite fibre in the above building was progressing. The results indicate that very high dust concentrations of 24 and 30 f/o.o. were created. There would therefore be a serious risk to the health of the men carrying out this operation if they were not protected by "Martindale" positive pressure respirators. It is also obvious that no other personnel should enter this building unless suitably protected.

A sample taken prior to those above, when the men were unfastening the damp crocidolite crude fibre on the stacks outside the factory, yielded a count of 10 f/o.o. This is higher than expected, and it stresses the need for good personal protection during this part of the salvage programme also.

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PLAINTIFF'S
EXHIBIT

TN-5277