



BRITISH-AMERICAN TOBACCO COMPANY LIMITED

Liverpool Branch

TO DR. S.J. GREEN,
M I L L B A N K.

FROM D.R. DAVIES
SCIENTIFIC CONTROL LABORATORIES.

REF DRD/ES.

DATE 9th June 1969.

THE UNITED TOBACCO COS. (S) LTD.
REPORT NO. RD. 36/69.
DISTRIBUTION OF NICOTINE IN TOBACCO BALES.

filed in library

*ALC
C1111
10th July 69
Revised to S54
10th July 69*

I think that the figures presented in this report indicate :-

- 1) the considerable variability of nicotine content within bales
- 2) that this variability is not very much lower than the overall variability within the grade, the overall figures being :-
ORGM 0.44%
ORJ 0.46%
- 3) that a rough, but under-estimated, assessment of the variability within a grade may be obtained by estimating the variability within a bale.
- 4) that if for quality control of blending it is desirable to know the mean value of any bale say to within $\pm 0.1\%$, then around 50 individual leaves need to be taken and ground, mixed, coned and quartered and a few nicotine estimates run on sub-samples (e.g. duplicate or triplicate should suffice).

This would consume between a lb. and $1\frac{1}{2}$ lbs. of leaf per bale and one would need to assess whether this rate of sampling would be economic in terms of advantages gained. With an Auto-Analyser the cost of actual analysis would be very low. For 400 lb. bales, at a very crude estimate I think the cost might be of the order of 1d. per 1,000 cigarettes (double for 200 lb. bales). This could, of course, be a good deal lower if $\pm 0.2\%$ is accepted when something like 15 leaves/bale should suffice.

4) might be feasible. I would like to know what R. & D.E. think.

D.R. DAVIES.

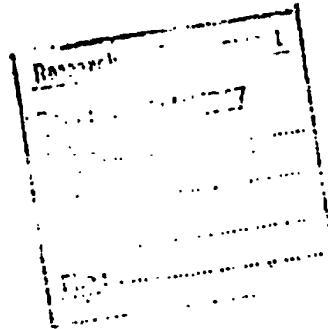
c.c. R. & D. ESTE.
S'ton.

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REPORT NO. RD 17/67.

THE EFFECT OF THE PHYSICAL PROPERTIES OF CIGARETTES ON
THEIR SMOKING CHARACTERISTICS.

PART II.



Distribution.

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THE UNITED TOBACCO CO.(S) LIMITED.

26th April, 1967.

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