

Lorillard

MEMORANDUM

January 30, 1990

TO: T. D. Jessup

FROM: J. P. Morgan

SUBJECT: Benzo[a]pyrene Analysis on Mainstream Smoke of 85mm
Non-filter Cigarettes Manufactured by Kimberly-Clark as
Requested by Joe Douglas. (PROJECT B451)

The sheet material, used for the tobacco blend, and the cigarettes were made by Kimberly-Clark for our cigarette modification project as requested by Joe Douglas (Letter Attached). The sheet material contained 50% flax and 50% tobacco lamina, consisting of 80% unpuffed Tobacco Processing Plant Virginia blend and 20% 37A Turkish lamina.

Only twenty cigarettes were submitted for smoking and BaP analyses. The cigarettes had bad loose ends and we were very limited in the selection of representative samples. The variation of the smoking and BaP results were indicative of the sample size and loose ends; however the results did give a good estimation of tar, nicotine, and BaP relationships with this sheet material.

The BaP content of the mainstream smoke was determined by analyzing duplicate Cambridge pads containing DPM from three cigarettes. The results are presented below in parts per billion (ppb) per the dry particulate matter (DPM) delivery. The smoking analysis is attached for additional information.

<u>Sample #</u>	<u>DPM/Cig (mgs)</u>	<u>BaP/Cig (ngs)</u>	<u>BaP/DPM (ppb)</u>
P1624-18-7#1	1.2	3.5	2,917
P1624-18-7#2	1.2	5.1	4,258

Conclusions:

1. The DPM and BaP contents per cigarette were lower than any other samples previously analyzed for BaP.
2. The ratio of BaP to DPM was approximately ten times greater than the norm due to the diminutive DPM in relation to the BaP content.

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3. The variation between analyses was primarily due to the expressed problems with sample size and loose ends.
4. The percent variation appeared to be much greater because of the low levels of BaP and DPM found in these samples.


J. P. Morgan

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Attachments (2)

Xc: J. H. Bell
J. C. Douglas
H. J. Minnemeyer
C. W. Lassiter
V. Norman
Library

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