

Research & Development Department

MEMORANDUM

June 24, 1976

*File
76-94*

VICEROY/RALEIGH EXTRA MILDS WITH XFF .118

MR 1976-94

B240-76-1

DC/A-326-944

Results of evaluations of the following cigarette samples are attached:

963/923 - Current RALEIGH Extra Milds except with Flavor XFF .118

923/963 - Current VICEROY Extra Milds

943/943 - Current RALEIGH Extra Milds

Tar and nicotine deliveries of all three samples are lower than those of production VICEROY/RALEIGH Extra Milds produced during the last half of May, 1976. Coumarin content of the sample with flavor XFF .118 is 37 ppm (target is approximately 50 ppm). As expected, no applied coumarin was found on the other two cigarette samples.

H. C. Garrett
H. C. Garrett

REC'D

JUN 25 1976

M.R.D.

HCG/bfw

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STANDARD READINGS - SAMPLE CIGARETTES

PROJECT CODE(S)	MR1976-94 (B240-76-1)	DATE MFG.	6/7/76	REC'D. R&D	6/8/76
CIGARETTE CODE		963/923	923/963	943/943	
PACK CODE		60940	60940	60940	
ANALYSIS CODE		240039	240040	240041	
TEST VARIABLES					
Flavor		XFF-118	VEM	REM	
TOBACCO ANALYSES (%)					
WTS \pm 1.8	(17.0)	16.0	17.3	18.4	
Reconstituted \pm 1.8	(11.2)	11.6	10.2	10.4	
Moisture \pm 0.5	(13.5)	13.5	13.5	13.5	
Glycerin \pm 0.2	(1.3)	1.4	1.4	1.4	
Propylene Glycol \pm 0.2	(1.6)	1.5	1.5	(1.9) 1.7	
Nicotine \pm 0.2	1.71 (1)	1.73	1.71	1.73	
Reducing Sugar \pm 1.0	12.2 (1)	9.0	9.0	9.3	
Total Sugar \pm 1.0	14.0 (1)	13.1	11.6	12.3	
Menthol \pm 0.02					
CIGARETTE ANALYSES					
Density (mg/cc) \pm 3	(260)	257	259	259	
WEIGHT (mg/cig.)					
Tobacco \pm 8	(764)	758	764	767	
Non-Tobacco \pm 6	(256)	261	257	257	
Cigarette \pm 7	(1020)	1019	1021	1024	
Circumference (mm) \pm 0.04	(25.0)	25.08*	25.05*	25.09*	
PRESSURE DROP (in.)					
Cigarette \pm 0.2	4.0 (1)	3.8	3.7	3.6	
Tob. Section \pm 0.2	1.6 (1)	1.5	1.2	1.2	
Filter \pm 0.3	(2.4)	2.3	2.5	2.4	
Filter Plasticizer (%) \pm 0.5	(9.5)	9.2	8.9*	9.1	
Firmness Cts./25 Cigs. (as is)	164 (1)	176	173	171	
SMOKE ANALYSES					
Tar (mg/cig.)	14.5 (1)	13.7 \pm 0.8	13.1 \pm 0.9	13.0 \pm 0.7	
Nicotine (mg/cig.)	1.10 (1)	1.00 \pm 0.02	1.03 \pm 0.04	1.05 \pm 0.04	
Puffs Per Cig.	7.3 (1)	7.6 \pm 0.2	7.9 \pm 0.3	7.9 \pm 0.2	
Filter Efficiency (%)	39.4 (1)	39.8 \pm 1.1	39.1 \pm 0.8	38.6 \pm 0.6	
OTHER DATA					
Ends Stability (mg/cig.)	28 (1)	50	50	56	
Coal Retention (%)	77 (1)	78	71	83	

COMMENTS: () Target values

*Significantly different from target.

(1) Production Monitoring data for period 5/15/76 to 5/31/76.