

Project No. T-3011
Project Title: Traf
Object: To produce a cigarette giving a very low T.P.M. and nicotine delivery, but still with taste and satisfaction.
Personnel Involved: R.R. Smith, M.T. Schiff, S.M. Candlish, W.A. Gray, T.A. Smith, G.L. Knapp

2nd Half 1971: As a starting point for this project, all the usual cigarette components and the types which might be worth considering in each category were discussed. Several series of sample cigarettes were then produced, to determine the effect of various components on smoke quality and delivery.

1st Series

A flavourful flue-cured blend containing some Turkish tobacco was developed. One sample was produced to which was added CRS treated by the St. Pauli process and urea was sprayed on the blend. Another sample was produced with Cytrel (2% Nic) but no urea.

Neither sample gave a good smoke.

It was then decided to investigate the use of Cytrel, Urea and St. Pauli treated CRS separately with Matinee tobacco instead of the flavourful blend.

2nd Series

Sample cigarettes were prepared using the Matinee blend with 9% and 18% Cytrel, 1%, 2% and 3% Urea and 18% St. Pauli CRS. Smoke analysis and smoke quality tests were carried out.

Samples made with high porosity cigarette paper (9-10 gr. sec.), 2.1/52,000 filters gave smoke analyses results of T.P.M: 9-10 mg. and nicotine 0.4 - 0.6 mg.

These samples indicated that 18% Cytrel gave noticeable impact, (maybe too much) and 3% Urea increased taste and impact.

As a result, the following samples were prepared for panel testing:

- 1) Matinee with 9% Cytrel, 3% Urea, and high porosity cigarette paper.
- 2) Regular Matinee
- 3) Matinee with high porosity paper.

402454092

Project No.
T-3011 (cont'd)

3rd Series

Sample cigarettes were produced to determine if there are any taste advantages by obtaining low tar and nicotine by ventilation (ventilated cork) or by high efficiency filters.

4th Series

Sample cigarettes were also made up to determine the effect on smoke quality of using nicotine fortified PCL.

402454093