

UNITED STATES TESTING COMPANY, INC.
1415 PARK AVENUE
HOBOKEN, N. J.

Monthly Progress Report • Period Ending January 31, 1956

Project UST 1-002-D • Cigarette Smoking Characteristics and Technique (Bonanno)

Project UST 1-002-D-3 • Measurement of Temperature of Burning Coal and Cigarette Smoke (Books, De Santis, Bonanno)

UST 12717

A. Summary

A number of tests involving varying conditions were performed to measure the temperature of mainstream cigarette smoke. Two preliminary experiments were conducted to measure the temperature of mainstream smoke using a cold junction at 25°C. The cigarettes were smoked to a 30 mm butt length and the Brown instrument was calibrated for 0 to 1 millivolt input. There were no temperature differences recorded on the chart up to a 30 mm butt length. Temperature measurements were obtained beyond a 30 mm butt length for an additional puff or two before the recorder went "off-scale".

It was decided to change the cold junction from 25°C. to 15°C. in order that temperature measurements could be more easily obtained for mainstream smoke for a 30 mm butt length. A series of four tests showed that the maximum temperature of mainstream smoke for cigarettes burned to a 30 mm butt length ranged between 24-28°C.

C
O
P
Y

1001913110