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SOUTHAMPTON.

NITROSAMINE LEVELS FROM U.S.
CIGARETTE BRANDS (1985 UPDATE)

REPORT NO. RD.2068 RESTRICTED

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SOUTHAMPTON.

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NITROSAMINE LEVELS FROM U.S. CIGARETTE BRANDS
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SUMMARY

In a previous study, conducted in 1983, it was shown that cigarettes manufactured by Philip Morris contained 2-3 times greater levels of tobacco nitrosamines than cigarettes manufactured by another, unnamed, American tobacco company.

In order to assess whether any notable changes in nitrosamine levels have occurred during recent years the comparison has been repeated. Additionally, the study was extended to include analysis of cigarette brands from a total of five major U.S. manufacturing companies: Philip Morris, Brown & Williamson, R.J. Reynolds, Lorillard and American Tobacco Company.

In total 24 brands were analysed for tobacco nitrosamines and also 8 brands were selected for mainstream and sidestream measurements.

This study has shown that Philip Morris brands now contain substantially less nitrosamines than in 1983 and are now similar to the levels found in other companies products. It is considered likely that Philip Morris have introduced modifications in their tobacco processing conditions/techniques which has led to these reductions in tobacco nitrosamine levels.

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Mainstream and sidestream nitrosamine deliveries were similar for all the brands analysed with the exception of one brand which utilised a charcoal filter.

KEY WORDS

Tobacco Specific Nitrosamines
Volatile Nitrosamines
NNN
NAtB
NNK
DMNA
NPYR
Commercial Cigarettes
Brown & Williamson Tobacco U.S.A.
Philip Morris U.S.A.
R.J. Reynolds Tobacco U.S.A.
Lorillard
American Tobacco
Mainstream Smoke
Sidestream Smoke
Nicotine
Nitrate
Sugars