4 mg per cigarette. 395a [Emphasis added.]

The first manufacturing step in nicotine control is the development and selection of raw materials. The tobacco industry has, through breeding and cultivation practices, developed high-nicotine tobacco plants that provide higher-potency raw material, giving manufacturers greater flexibility in blending and in providing uniform and sufficient nicotine deliveries.

Even without the selective breeding and cultivation of plants for nicotine content, careful tobacco leaf purchasing plans permit the manufacturers to control nicotine content in their products. For example, nicotine content varies among types of tobacco and from one crop year to the next. Awareness of these basic differences and monitoring of the nicotine levels in purchased tobacco allows the companies to produce cigarettes with nicotine deliveries consistent to a tenth of one percent, despite variations as high as 25% in the nicotine content of the raw material originating in the same area, from year to year.

The primary control of nicotine <u>delivery</u> (the amount received by the smoker), however, is in the design and careful, sophisticated manufacture of the cigarette, to ensure that the smoker obtains the precise amount of nicotine intended by the manufacturer. FDA's investigation has revealed that despite reductions in the amount of tar delivered by cigarettes over the past several decades, nicotine delivery in low-yield³⁹⁶ cigarettes has not fallen proportionately with the reductions in tar. Instead, nicotine delivery has apparently risen over the last decade, a result

^{395a} Spears, AW. Lorillard Tobacco Co. Factors Affecting Smoke Delivery of Nicotine and Carbon Monoxide. Presented at the 1975 Symposium-Nicotine and Carbon Dioxide. November 17-18, 1975. In Symposium Proceedings-1, at p.12. FDA notes that when the author testified before Congress, he stated that nicotine manipulation does not occur and that nicotine yields simply follow tar yields. See note 479, infra. In this article he does not mention tar yield as factor in determining nicotine yield.

^{396 &}quot;Low-yield" is used to denote cigarettes advertised as low-tar and low-nicotine.