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Exhibit 21

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UNITED STATES INTERNATIONAL TRADE COMMISSION WASHINGTON, DC

Before the Honorable Clark S. Cheney Administrative Law Judge

In the Matter of

CERTAIN TOBACCO HEATING ARTICLES AND COMPONENTS THEREOF Investigation No. 337-TA-1199

EXPERT REPORT OF BRAD RODU

Relating to the Public Interest

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Brad Rodu

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October 5, 2020

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process that gives it a different flavor than American dip, and somewhat lower levels of unwanted contaminants. Like dip, snus is marketed in many flavors and small pouches.

169. The use of STPs results in similar blood nicotine levels as cigarettes, but with slower absorption that is unsatisfying to many smokers.²⁵⁵ These products also do not look like combustible cigarettes and to not reproduce the smoking ritual. In addition, esthetic concerns limit STPs' usefulness for women in particular and for some ethnic and racial groups.²⁵⁶

D. E-cigarettes are not adequate substitutes for IQOS®

170. Another alternative nicotine delivery system to combustible cigarettes is an ecigarette (which also includes any product producing vapor derived from a liquid containing various levels of, or no, nicotine).

1. Performance of e-cigarettes shows a need for other PRRPs

171. E-cigarettes have been sold in the American market since 2007.²⁵⁷ While ecigarettes mimic some of the rituals of smoking, their haphazard development as consumer electronic products has produced a wide variation in quality, resulting in low satisfaction among traditional smokers and rare but serious battery malfunctions and misuse.²⁵⁸

172. E-cigarettes may be a good choice for certain individuals. That said, many try ecigarettes and then abandon them.²⁵⁹ A considerable number of people also engage in dual use of

²⁵⁹ See PMP_ITC01875417; 1199_RESP00016335-46.

²⁵⁵ PMP_ITC01901802-39.

²⁵⁶ PMP_ITC01901802-39.

²⁵⁷ 1199_RESP00010908.

²⁵⁸ See 1199_RESP00016335-46.

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e-cigarettes and combustible cigarettes, which reduces the health benefits of completely switching to a PRRP.²⁶⁰ In fact, National Health Interview Surveys from the Centers for Disease Control and Prevention reveal that the number of current smokers using e-cigarettes has always been higher than the number of former smokers using them.²⁶¹

2. Youth use of e-cigarettes is high and remains under scrutiny

173. There is no question that the use of e-cigarettes among high school and middle school students has increased. Accordingly, governmental officials are "taking a comprehensive aggressive approach " to the situation.²⁶² Complainants, too, acknowledge there is a problem. For example, in February 2020, RAI's CEO testified in a House Committee hearing about the perils of youth adoption of e-cigarettes.

174. In September 2020, the CDC reported that "19.6% of high school students (3.02 million) and 4.7% of middle school students (550,000) reported current e-cigarette use."²⁶³ Of those users, "38.9% of high school students and 20.0% of middle school students reported using e-cigarettes on 20 or more of the past 30 days; 22.5% of high school users and 9.4% of middle school users reported daily use."²⁶⁴

²⁶⁰ See 1199_RESP00011888; 1199_RESP00016335-46.

²⁶¹ CDC Data: Vaping Increased in 2018, Particularly Among Former Smokers, TOBACCO TRUTH (last visited Oct. 5, 2020), https://rodutobaccotruth.blogspot.com/2019/07/cdc-data-vaping-increased-in-2018.html.

²⁶² 1199_RESP00010611; see also 1199_RESP00010620-21; 1199_RESP00011826-31; 1199_RESP00014244-53; 1199_RESP00014536-47; 1199_RESP00010295-300; 1199_RESP00010702-886; 1199_RESP00010908-11; 1199_RESP00011330-39.

²⁶³ 1199_RESP00015126.

²⁶⁴ 1199_RESP00015126.

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175. While no measures ever taken by manufacturers and suppliers of adult substances have ever guaranteed zero use by teens, the highly restrictive sales program implemented by Respondents worldwide has minimized youth uptake of IQOS®.²⁶⁵ The FDA-approved post-marketing surveillance plan also will ensure that IQOS® is marketed and sold only to adult smokers.²⁶⁶ Moreover, as a product, studies have shown that IQOS® simply does not appeal to youth in the way that e-cigarettes do.²⁶⁷

3. The e-cigarette market is undergoing major disruption

176. In addition to concerns about the performance or appeal of e-cigarettes and the questions surrounding youth uptake of such products, the e-cigarette market is undergoing major disruption. For years, e-cigarettes were technically on the U.S. market illegally.

177. This issue of illegality was addressed through a deadline on September 9, 2020, whereby all e-cigarette companies had to file PMTAs with the FDA in order to remain on sale in the United States.²⁶⁸ Applications had to be filed for each device, each flavor, and each concentration of nicotine liquids or pods, making some vape shops responsible for hundreds of PMTAs.²⁶⁹ Each application is required to demonstrate that the products are "beneficial to the population as a whole including users and non-users . . . [taking] into account the increased or decreased likelihood that existing tobacco users will stop using such products, and the increased

²⁶⁸ 1199_RESP00014297.

²⁶⁹ See 1199_RESP00014300-01; 1199_RESP00014118-69.

²⁶⁵ See 1199_RESP00011619; PMP_ITC05452788.

²⁶⁶ 1199_RESP00012398-403.

²⁶⁷ See, e.g., PMP_ITC01768947-55; 1199_RESP00012388.

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