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Testimony Before the Pennsylvania Senate Committee on Environmental Resources and Energy

Chairman Gene Yaw, Chairwoman Carolyn Comitta, and Honorable Members of the Committee,

Thank you for the opportunity to testify today. My name is Ryan Bankerd, and I am the Director of Sustainability at UPS. I am here to discuss the vital role that biofuels, such as renewable natural gas (RNG) and renewable diesel, play in enhancing sustainability and reducing emissions for vehicle fleets.

UPS, as a global logistics leader, understands that sustainability begins with a commitment to deliver excellent service while simultaneously providing more sustainable solutions. Today, our "Rolling Laboratory Fleet" consists of nearly 19,000 advanced technology and alternative-fueled vehicles, traveling over a million miles daily. This fleet emphasizes an energy-agnostic approach, incorporating everything from human power to hydrogen. Through this endeavor, we've identified biofuels as a significant contributor to environmental improvement today, while continuing our partnerships to advance diverse low-carbon technologies for fleets of all sizes.

UPS commends the Senate of Pennsylvania's interest in biofuels. This aligns with our 2025 goal of achieving 40% alternative fuel usage, reducing emissions per package by 50% by 2035. From our Rolling Laboratory's findings, I would like to highlight two fuels that have shown significant promise in reducing lifecycle greenhouse gas emissions:

Renewable Natural Gas (RNG): The world faces challenges with both waste and emissions. RNG offers an elegant solution by utilizing organic waste materials, such as agricultural waste, municipal solid waste, and wastewater, to produce fuel. RNG captures methane and repurposes it as a fuel source, simultaneously offsetting emissions from traditional sources. Fleets utilizing RNG in modern engines have achieved up to a 90% reduction in lifecycle greenhouse gas emissions compared to conventional diesel.

Renewable Diesel: Renewable diesel, distinct from biodiesel, is a highly refined product derived from non-petroleum renewable resources like vegetable oils and animal fats. Unlike biodiesel, which is blended with petroleum diesel, renewable diesel integrates seamlessly into existing diesel engines and burns much cleaner, dramatically reducing pollutants such as NO_x, SO_x, and black carbon particulates. Depending on feedstocks and engine technology, we've observed up to a 66% reduction in lifecycle carbon emissions and a 98% reduction in NO_x with cutting-edge engine technology.

Today, I encourage fleets in Pennsylvania to consider the substantial benefits that biofuels like those validated by UPS's Rolling Laboratory can offer to their sustainability portfolios. Biofuels not only reduce emissions today, but also support local economies in managing waste that can then provide enhanced energy independence by reducing.

In conclusion, I appreciate the opportunity to discuss UPS's innovative energy-agnostic logistics solutions. Biofuels are strategically significant to our sustainability goals, and we are proud to collaborate with all partners, including the state of Pennsylvania, towards collective sustainability objectives of reducing emissions and fostering economic development opportunities.

Thank you for the opportunity to present my testimony. I am happy to answer any questions you may have.

Sincerely,

Ryan Bankerd

Director of Sustainability, UPS