Congress of the United States

Washington, DC 20515

April 4, 2023

The Honorable Jennifer Granholm
Secretary
U.S. Department of Energy
1000 Independence Ave., S.W.
Washington, DC 20585

RE: DE-FOA-0002779

Dear Secretary Granholm:

As representatives from across the Mid-Atlantic region, we write to express our enthusiastic support for the Mid-Atlantic Clean Hydrogen Hub (MACH2)'s application for the Department of Energy (DOE)'s Regional Clean Hydrogen Hubs program. MACH2 will produce, distribute, and use clean hydrogen to power industry and transportation in Southeastern Pennsylvania, Delaware, and Southern New Jersey, in partnership with our highly trained and unionized workforce.

MACH2 will build upon our region's strong manufacturing, chemical, and bioscience presence and existing infrastructure that can easily be converted to transport and store hydrogen. MACH2 also meets several of the statutory requirements for the Regional Clean Hydrogen Hubs program in the Bipartisan Infrastructure Law, including:

- **Feedstock diversity**: The Mid-Atlantic region is capable of producing large amounts of clean hydrogen. MACH2 will demonstrate the production of clean hydrogen from renewable energy, nuclear energy, and waste conversion.

- **End-use diversity**: The clean hydrogen produced in MACH2 will be used in a range of industrial, commercial, and transportation applications, including decarbonizing our region's public transit systems to help provide cleaner air for healthier commutes.

- **Employment**: Due to the Mid-Atlantic region's history in the energy industry, there is an existing, highly trained union workforce that has a depth of experience in the construction and operation of fuel equipment and facilities. Our region's labor unions and academic institutions have helped develop the MACH2 proposal, which will support 20,000 jobs and create long-term employment opportunities for residents across the Mid-Atlantic, including through training and upskilling.

- **Connectivity**: MACH2's central location along the I-95 corridor and access to existing pipeline infrastructure will allow the hub to scale distribution and connect with other potential hubs to help create a national clean hydrogen network.

- **Carbon intensity**: MACH2 will focus on zero-emitting hydrogen production. MACH2 proposes to have a carbon intensity ranging from zero emissions to 0.2 kg CO_2e/kg H_2 – far below the target of 4 kg CO_2e/kg H_2 for lifecycle greenhouse gas emissions, as established by DOE's Proposed Clean Hydrogen Production

Standard, and the clean hydrogen production qualification of 2 kg CO_2e/kg H_2, as defined in the Bipartisan Infrastructure Law.

MACH2 will provide significant community benefits in addition to creating and sustaining thousands of good paying union jobs. For example, MACH2 will help provide an economic lifeline to the Mid-Atlantic refineries that have struggled economically in recent years due to market forces and regulatory challenges and uncertainty. The independent merchant refineries in our region – including the PBF refineries in Delaware City, Delaware and Paulsboro, New Jersey and the Monroe refinery located outside of Philadelphia, Pennsylvania – play an important role in ensuring our domestic energy security by reducing our reliance on foreign sources of fuel.

In addition, the use of hydrogen produced using renewable energy (known as green hydrogen) and hydrogen produced using nuclear energy (known as pink hydrogen) to power our region's transportation and industrial facilities will reduce criteria pollutants, improve public health outcomes, and provide economic opportunities in our region's environmental justice communities.

As you've seen from your visits to Pennsylvania, Delaware, and New Jersey, the MACH2 proposal leverages all the best aspects of our region – from our unparalleled innovation ecosystem and strong labor workforce to our hydrogen production capacity and demand across an array of industries. We are excited about the opportunity that MACH2 presents to reduce pollution in our communities, achieve significant emissions reductions in hard-to-abate sectors, and ensure that unions are at the center of the clean hydrogen economy.

Thank you for your consideration of MACH2's application. If you have any questions, your staff should not hesitate to contact Laura Haynes Gillam at Laura_Gillam@epw.senate.gov on Senator Carper's Environment and Public Works Committee staff, Anna Yelverton at Anna_Yelverton@coons.senate.gov on Senator Coons' staff, and Nathan Robinson at Nathan.Robinson@mail.house.gov on Congresswoman Blunt Rochester's staff.

Sincerely,

Thomas R. Carper
United States Senator

Christopher A. Coons
United States Senator

Lisa Blunt Rochester
Member of Congress

Robert P. Casey, Jr.
United States Senator

John Fetterman
United States Senator

Brian Fitzpatrick
Member of Congress

Robert Menendez
United States Senator

Cory A. Booker
United States Senator

Donald Norcross
Member of Congress

Madeleine Dean
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Mary Gay Scanlon
Member of Congress

Chrissy Houlahan
Member of Congress

Brendan F. Boyle
Member of Congress

Dwight Evans
Member of Congress

CC: Mr. David Crane, Director, Office of Clean Energy Demonstrations
Dr. Sunita Satyapal, Director, Hydrogen Fuel Cell Technology Office