



March 22, 2013

Humboldt State University Innovation Credit Letter

Dear STARS Innovation Credit review committee,

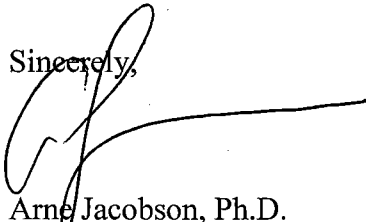
I am happy to provide a letter endorsing the STARS Innovation Credit submission for the Humboldt State University Hydrogen Fueling Station.

I am Director of the Schatz Energy Research Center (SERC) and an Associate Professor in the Environmental Resources Engineering department at Humboldt State University. Faculty and staff from SERC played a leading role in designing and building the HSU Hydrogen Fueling Station, including the recent upgrade that allows fueling to 700 bar pressure (~10,000 psig). The Center has experience working with hydrogen energy, high pressure gas systems, and renewable energy technology dating back to 1989. My own work with these technologies began in 1992. I have reviewed the STARS Innovation Credit criteria, and I can say with confidence that the HSU Hydrogen Fueling Station meets the requirements.

The future of clean transportation requires appropriate supporting infrastructure, and this station is an excellent example of an innovative solution. The installation is the first rural hydrogen fueling station in the state. The recent upgrade of the station allows it to support hydrogen fuel cell vehicles that have a range of approximately 400 miles. These vehicles can now drive back and forth between the town of Arcata in the Humboldt Bay Region and the San Francisco Bay Area or Sacramento, where sister fueling stations are located. This enables evaluation of emerging fuel cell vehicle technology in a long-distance freeway-driving context. The vehicles produce no tailpipe emissions other than water vapor, and if the hydrogen is produced using renewable energy they correspond to a very clean form of transportation. The HSU Hydrogen Fueling Station therefore provides important support for the development and demonstration of clean transportation for California and beyond.

Please do not hesitate to contact me if further information is needed.

Sincerely,



Arne Jacobson, Ph.D.

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Associate Professor, Environmental Resources Engineering

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