

EERC - Center for Hydrogen Technology Addition



Grand Forks, North Dakota

Year Completed: 2012

Electrical Construction: \$351,000

Project Manager: Steve Wasvick

Project Foreman: Aaron Pearson

Architect: JLG Architects

General Contractor: GAST Construction



Bergstrom Electric was the electrical contractor for the 10,100 square-foot addition of demonstration space dedicated to fuels of the future, which was added onto the EERC's National Center for Hydrogen Technology[®] (NCHT[®]) facility (completed in 2008).

The new 70-foot-high Fuels of the Future facility provides essential new space for corporate partners to install more demonstration systems and was constructed to focus on the development and demonstration of technologies for the production of non-petroleum-derived liquid fuels (renewable jet, diesel, and gasoline) and hydrogen, utilizing valuable domestic energy resources. The facility includes a high-bay area with multiple levels, two control rooms, and additional logistics space for handling equipment and materials.



The biggest challenge on the project was the unique interior structure of the building. A total of 70 feet high, there were only 2 flooring decks completed, as the facility was built for potential future uses (and an additional 3 floors). Crews had to hang lights from the ceiling that were strong enough to light the entire

warehouse-like area, using a special articulating lift that would fit in-between the existing floor decking.

The project was finished in September of 2012 and took 3,200 man-hours to complete.

Bergstrom started work in April of 2011. Along with a 400 amp distribution center and three 225 amp panelboards, the project also required the installation of several specialized systems, including an HVAC control system and a gas detection system that continuously monitors the facility in case of a hydrogen or fuel leak.

