

DAKOTA COUNTY FLEET STORAGE

Empire Township, Minnesota



The electrical system was designed so that the facility could be used in case of local emergency or natural disaster. One picture below shows the automatic transfer switch for the new onsite emergency generator that powers life safety systems, the overhead doors, and selected mechanical loads necessary to operate the building during a "normal" power outage. The adjacent equipment in the same picture is the manual docking station that would be used in the case of extended power outage. This equipment allows a temporary emergency generator (usually owned by the local fire department and mounted to a trailer) to be brought to the site and connected into the building loads. This is an engineering design that Gausman & Moore has used successfully on numerous municipal and military projects.



The heating system for the Dakota County Fleet Storage building is a pair of ground coupled water to water heat pumps that provide hot water for in-floor radiant heat in the vehicle storage bays. Overhead electric radiant heat panels are used for back up heating. The water to water heat pumps are located on a mezzanine above a small office and conference room. The office and conference room are each served by a water source heat pump providing heating, cooling and ventilation.

Project was awarded the Energy Design Assistance Recognition Award in 2011 from Xcel Energy Inc.

"The most Energy Efficient Building Built in the Energy Design Assistance Program greater than 50,000 square feet. Of the hundred or so buildings within the last two years, this project met and exceeded all requirements for the award." - Jessie Peterson, Xcel Energy

