



CO-GENERATION PARALLELING TRANSITION - DST SYSTEMS

St Louis, MO

CLIENT

DST Systems, Inc.
Kansas City, MO

COST

\$550,000

ROLE

Design-Assist



This project consisted of design, construction and commissioning of generator controls for an existing data-center. The existing control system was an emergency isolated bus paralleling system with open transition (break before make) from the utility upon an outage. Once utility power was restored, open transition transfer back to the utility from on-site generation was required. The task was to convert the generator controls to a transfer pair scheme of generator main breakers and utility main breakers to perform closed transition sequence with the utility (make before break). The transfer pair scheme allows synchronization and paralleling of on-site generators, onto the utility. The on-site generator load is soft loaded onto the utility, and the generators are taken off-line. These modifications will also allow load testing of onsite-generation against the utility. This project was executed on an operating data center.