



TAYLOR RYMAR
CORPORATION

ENGINEERING “*Engineering is not merely the possession of the capacity to get elegant solutions to non-existent engineering problems; engineering is practicing the art of the organized forcing of technological change...Engineers operate at the interface between science and society...*” -Dean Gordon Brown

DATA CENTERS AND COMMUNICATION FACILITIES

Internet co-location facilities, call centers, and computer facilities all share the common needs of reliable electrical and mechanical services. TRC has provided designs for several of these systems, including computer room HVAC, battery room exhaust systems, grounding, UPS and standby generator systems, and critical power distribution.



Level 3 Communications

Phoenix, AZ TRC has provided engineering design for over 30 projects within this Phoenix, Arizona internet gateway facility. These projects involved electrical engineering services for the installation of various servers and data storage equipment, a new UPS and associated Power Distribution Units, installation of new computer room HVAC units, and construction coordination for expansion of the co-location floor area.

Motorola Western Area Computer Center Scottsdale, AZ

This project involved redesigning the power distribution system for the Motorola Western Area Computer Center (WACC). The importance of this facility dictated a need for a highly reliable power distribution system. The system incorporated three redundant primary distribution transformers, triple-ended redundant 480 Volt distribution buses and four rotary UPS systems to serve critical and support loads. These redundant systems were linked together via computer controlled paralleling and transfer schemes to insure uninterrupted power to the facility.

i-Structure, Inc. Tempe, AZ TRC has had the opportunity to complete several projects at i-Structure’s IT infrastructure facility in Tempe, Arizona. These projects involved electrical engineering services for the installation of various servers and data storage equipment. Included in the design of these projects was impact analysis on the highly reliable redundant power systems currently present at the facility. We have provided plan review and permit application services for these projects and projects designed by other consulting firms. We work with i-Structure’s preferred contractors to better expedite project construction.

Motorola Iridium Satellite System Administration & Gateway Phoenix, AZ

This project consisted of the electrical design for the prototype test lab and control room for The Iridium Satellite project at an existing Motorola campus. Six thousand square feet of existing lab space was retrofitted for a new control room, communication equipment room and office space. Special lighting designs for multiple scene control room lighting and high level task lighting in the communication equipment room were incorporated into the design. Pre-purchase specifications for owner purchase of long lead electrical equipment were also provided. Extensive grounding systems were incorporated into the facility to aid in the reduction of equipment interference.

