TECHNOLOGY

SWITCHING FACILITIES

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SPRINT PCS
TELEPHONE SWITCH CENTERS

- Austin, TX
- Dallas, TX
- Ft. Worth, TX
- Houston, TX (2)
- McAllen, TX
- Oklahoma City, OK
- San Antonio, TX

Design and construction of a series of telephone switching sites for new digital PCS, CDMA communication technology, each consisting of approximately 12,500 sf to 28,000 sf. The projects required extensive modifications to existing buildings, including new structural framing systems to accommodate the required clear heights for wireless and wireline switching modules, telecommunication and transport racks and equipment, redundant HVAC systems, new electrical switchgear, DC inverter power and battery back-up, new sprinkler systems, zoned FM 200 fire protection systems, very early smoke detection systems (VESDA), an automated building monitoring system and building security system. Facilities are 24-hour, 7-day week operation and each provide space for new toilets, breakrooms, secure storage, workstations and offices for personnel.

EXPEDIA COMMUNICATIONS
SWITCHING FACILITIES
(FORMERLY MPOWER COMMUNICATIONS)

- Dallas, TX
- Denver, CO
- Houston, TX
- Minnesota, MN

First of 29 switches nationwide. 6,000-6,500 sf telecommunication switch facilities located in multi-story/multi-tenant facilities. Facilities are planned for 1 or 2 Nortel Switches, DC power, redundant AC, and emergency generator capacity. Fire protection is to a pre-action system for the DC power plant and switch room. Modifications to the base building air conditioning, electrical and sprinkler systems were required. Addition of roof-top grillage and electrical to support the condensing units for the CRAC Units.

SUBMARINE CABLE LANDING FACILITIES
ALCATEL USA

- San Juan, PR
- Santo Domingo, DR

Design and construction of 2 cable stations of approximately 9,600 sf to 12,350 sf to house mission critical telecommunications equipment. The facilities are operated 24/7. The facilities were designed to have a finish floor above storm surge levels, to withstand 145 mph winds, seismic zone 3 requirements, "D" exposure, a 1.15 importance factor, and a redundant roof system. Emergency power and the HVAC system were designed with N+1 redundancy. The equipment was designed for N+N redundancy with a 4 hour battery backup. 2 fuel tanks sized for 7 days of fuel consumption, were provided. A seven-day water storage system for domestic water requirements was included. Interlock, pre-action sprinkler system was designed for redundant backup to the FM-200 fire protection system. Ductbanks from the beach manhole for sea cables were provided to the property.

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TECHNOLOGY

DATA CENTERS

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CINGULAR WIRELESS (FORMERLY AT&T WIRELESS) DATA CENTER ALTERATIONS

ALLEN, TX

Renovation of 17,500 sf in an operating data center. Alterations included the rerouting of the existing 12.5v electrical feeds to accommodate a new battery room addition. A new redundant 12.5v UPS (A & B) input switchboard system with 3,300kva transformer was installed along with redundant 4,000a UPS (A & B) system control cabinets; 4 - 750 kva UPS modules, 4 futures modules, and 4,000a redundant (A & B) UPS output distribution switchgear. The new 5,550 sf Battery Room was built to accommodate 8 strings of wet cell batteries with capacity to add 8 additional strings. A new 6,550 Vendor Storage Building was also built to accommodate vendor storage and computer equipment make up and testing prior to placing equipment on the raised floor. Additional items included new HVAC systems to accommodate the new additions, new pumps, a new 500 ton chiller, bus duct extensions and new 225 kva PDU's on the raised floor.

KANSAS REGIONAL DATA CENTER DATA CENTER ALTERATIONS

GARDNER, KS

Renovation of 48,000 sf in an existing operating data center. Alterations included improved ingress and egress to meet ADA and code requirements, installation of a new fire sprinkler system in portions of the data center, new halon systems, new HVAC distribution, new electrical distribution to eliminate single points of failure, new ground fault installation at primary transformers and paralleling of two new high voltage transformers. Affected areas of the data center included the CPU room, command center, network area, administration area, UPS room, Tape room, DASD room, printing, and inserted rooms. The data center operated during the scheduled construction with no unplanned outages.

PHILIPS COMMUNICATIONS & PROCESSING DATA CENTER

ARLINGTON, TX

Renovation of 50,000 sf in an existing operating data center. Alterations included the design of a second electrical utility service with generator backup. Design and construction of a second UPS/electrical room and a new battery room. A redundant 200-ton chiller was added to the existing system along with additional CRAC units to increase the cooling capacity of the center. Design and construction of a new command center, conference facilities and customer presentation facilities were included. Alterations included improved ingress and egress and new toilet facilities to meet ADA and code requirements. The data center operated during the scheduled construction with no unplanned outages.

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SPRINT
WESTERN REGIONAL DATA COMMUNICATIONS CENTER
SACRAMENTO, CA

Design and construction of Sprint's Western Regional Data Communications Center of 108,000 sf on two floors in Rancho Cordova, CA. Included was the additional construction of a 15,000 sf building for electrical switchgear, UPS Modules, batteries, chillers, pumps, cooling towers, and generators. Initial installation featured two 4,000 amp electrical service feeds, two 750 KVA UPS systems with battery backup, five diesel emergency generators, three chillers, three cooling towers with a complete chilled water loop below the raised floor, two 20,000 gallon underground diesel storage tanks, one 20,000 gallon underground water storage tank, complete halon protection throughout and a BAS function. Future expansion will include one additional 4,000 amp service, and a 750 KVA UPS system complete with batteries, two additional diesel generators, and additional cooling towers. Actual construction was accomplished in 147 days.

SPRINT
FLORIDA REGIONAL DATA CENTER
ORLANDO, FL

Installation of a second 2500 KVA electrical feeder with dual utility main-tie secondary service entrance switchgear to eliminate single points of failure. Design of a complete backup make-up water scheme for the cooling tower system. A full flow cooling tower water filtering system was installed to reduce maintenance required on the existing heat exchangers.

SPRINT
DALLAS DATA CENTER RENOVATION
DALLAS, TX

Conversion of the center from a condenser water system to an air cooled system. Scope of Work included the coordination of structural and MEP consultants. Work included the removal of 12 100-ton cooling towers and associated piping. Removal of underfloor condenser water piping, removal of water pumps and associated electrical started, switches, piping and panels. Installation of new steel grillage on the roof top to accommodate a total of 42 condenser units for the CRAC units on raised floor. Rerouting of refrigerate piping, new electrical feeds and panels. Work took place during regular working hours with no outage time for the data center.

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SPRINT
APPLIED TECHNOLOGY CENTERS

NATIONWIDE

- Dallas, TX
- Sacramento, CA
- Kansas City, MO
- Washington, DC

Programming, design and construction of Applied Technology Centers of approximately 8,000 sf to 10,000 sf consisting of Video Teleconferencing Briefing Rooms, Video Teleconference Demonstration Rooms, Conference Facilities, Raised Floor Equipment Demonstration Areas, Audio-Visual Equipment Rooms, Lounge and Gallery Areas to fully demonstrate to potential customers the Sprint Communication Worldwide Network and Data Capabilities. Centers include complete coordinated audiovisual, acoustical and lighting systems, separate mechanical systems and complete UPS system with battery backup and emergency diesel generator for redundancy.

SPRINT
IS DATA CENTER
FACILITY STUDIES

FOUR DATA CENTER SITES

- Irving, TX
- Sacramento, CA
- Gardner, KS (2 SITES)

A complete architectural, mechanical and electrical analysis and survey of four existing data centers. The focus of the analysis was to analyze all existing electrical, mechanical, fire protection, architectural raised floor areas, security systems and the redundant backup systems for the facilities in order to make recommendations to "harden" these sites for better reliability. Evaluate concerns and costs with respect to technological and economically feasible corrections, which will serve to "harden" the sites.

SPRINT
SOUTHWEST DIVISION
TOWERS II - IS RENOVATION

IRVING, TX

Renovation and retrofit of a former IBM installation of 401,000 sf of raised floor on the sixth and seventh floors of an existing 16 story high rise building. The installation consists of a new 500 KVA UPS system, two 200 KVA UPS system modules with four 175 KVA, 400 Hz motor generator sets, an additional emergency diesel generator to run the existing cooling tower and new domestic water line feed for redundancy and new 50 KVA transistorized UPS modules located in the raised floor.

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SPRINT
KANSAS REGIONAL DATA CENTER
UPS/CHILLED WATER MODIFICATIONS
GARDNER, KS

Design and construction of a new UPS/electrical room and a new battery boom of approximately 1,800 sf. Design of a complete new chilled water loop system to be installed below the raised floor of operating IBM 3000J series CPU's. The chilled water system was installed along side of an existing water loop that was later removed. A 500-ton redundant chiller was also added to the new system. The new UPS system was designed to accommodate 4 500 KW modules. New HVAC distribution, halon systems and battery exhaust systems were included in the facility. Provisions for a second high voltage electrical feed and transformer to the data center were included in the design. The data center operated during the scheduled construction with no unplanned outages.

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TECHNOLOGY

CALL CENTERS

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COMMUNICATION SERVICE FOR THE DEAF OPERATOR SERVICE CENTERS FOR THE SPEECH & HEARING IMPAIRED

NATIONWIDE

- Austin, TX
- Moorhead, MN
- Syracuse, NY
- Dayton, OH
- Lubbock, TX
- Tucson, AZ

Analyze and survey the architectural, mechanical and electrical systems, of potential building sites to determine their strengths, weaknesses and capacities to support 24/7 day a week operator facilities. Design and construction of a series of long distance telephone operator service center for the speech and hearing impaired, each approximately 15,000 sf to 25,000 sf. Each with a 150 KVA UPS installation with battery backup, emergency diesel generator, raised floor computer and switch rooms, capable of accommodating from 75 to 200 operators. Center size range from 50 to 210 seats.

SPRINT OPERATOR ACTIVATION CENTERS

NATIONWIDE

- Austin, TX
- Gardner, KS
- Indianapolis, IN
- Lubbock, TX
- Overland Park, KS
- Richmond, VA
- Winona, MN
- Charlotte, NC
- Honolulu, HI
- Jacksonville, FL
- Nashville, TN
- Phoenix, AZ
- Tempe, AZ

Design and construction of a series of long distance telephone operator service centers, each consisting of approximately 28,000 sf to 55,000 sf. Each with a 150 KVA UPS installation with battery backup, emergency diesel generator, raised floor computer and switch rooms, capable of accommodating from 80 to 200 operators. Center size range from 150 to 200 seats.

SPRINT REGIONAL OPERATOR CENTER (ROC)

PHOENIX, AZ

- Facility was selected by *Call Center Magazine* as Telecom Call Center of the Year - 2001.

Originally designed and constructed in 1993, the center was renovated and expanded to 33,000 square feet in 2001. New training rooms and support functions were added. The raised floor switch room was also expanded with new CRAC A/C units added and the FM 200 fire protection system. Existing areas were refurbished with new finishes including a new reception and waiting area, an expanded breakroom with game areas, quiet rooms and self study areas. Regional materials and colors were utilized in the design approach. The prototypical approach will be utilized in other areas of the country as expansion and growth continues.

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FINANCIAL PROCESSING CENTERS

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COMPASS BANK OPERATIONS CENTER

TEMPE, AZ

Design and construction of a 42,000 sf multi-state financial operations and processing center including a 100 seat call center. Raised floor areas for the low-voltage plant and the items processing equipment are supported with a 160 KVA uninterrupted power source with battery backup and a 350 KW emergency diesel generator, which also supports the 75-100 seat customer care center and building wide environmental systems. The complete tenant finish-out of an existing back-office cold shell facility was accomplished in 10 weeks.

UNISYS CORPORATION REGIONAL PROCESSING CENTER

NATIONWIDE

DALLAS, TX

HOUSTON, TX

PORTLAND, OR

Design and construction of a series of financial items processing centers, each consisting of approximately 10,000 sf to 12,000 sf. Each center is equipped with a 100kva to 125kva UPS module with battery backup, 230 KW emergency diesel generators, 1,000 amp to 1,200 amp electrical service, fire alarm systems and hydrogen detection systems. The centers are designed to operate 24/7 and are capable of supporting 6 to 7 sorters and processors. The centers also support incoming and outgoing mail courier services, cash vault activities and range form 60 to 70 seats.

COMPASS BANK OPERATIONS CENTER

HOUSTON, TX

Design and renovation of 20,000 sf located in an existing facility. Programming of the expanded operational groups was implemented with the re-occupation of adjacent space for the telephone/customer inquiry, data information systems, and statement processing areas. On going studies include computer system and risk management upgrades with halon and fire safety system and redundant support systems.

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BANKONE OPERATIONS CENTER
BEDFORD, TX

Design and renovation of 90,000 sf of an items processing division in an existing financial data facility. The merger of two major bank entities required an accelerated relocation of both check processing, statement processing and mail handling groups into an existing facility. Relocation of the raised floor and bulk processing areas while not interrupting the monthly statement processing cycles was paramount in the scheduling and construction process.

BANK AMERICA AUSTIN OPERATION CENTER
(FORMERLY INTERFIRST BANK)
AUSTIN, TX

Renovation and expansion of 11 complete floors of existing banking quarters totaling 195,000 sf. Scope of work included site and building survey of facilities, work required investigation and analysis of fire separation and protection between three separate structures to meet City of Austin retrofit fire protection ordinances. A 20,000 sf computer and data processing center complete with new halon and smoke detection system was also retrofit as a part of this project.

AMERICAN NATIONAL BANK FINANCIAL OPERATIONS CENTER
ST. JOSEPH, MO

Design and construction of a 8,000 sf raised floor bank holding company's operation center in a new 6 story building. The facility coordinated the check processing, bookkeeping, proof/transit and customer services for their 15 branch bank operations and well as other financial institutions which required data processing services. Work included expanded mechanical and electrical systems,, including recapture of the heat generated by the computer equipment for base building reheat during winter season, complete halon system, UPS systems, and security systems.

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FINANCIAL PROCESSING CENTERS

COMPASS BANK OPERATIONS CENTER

THRONTON, CO

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Design and construction of 8,000 sf item processing center to include statement processing areas, training facilities and a new telecom switch facility.

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TECHNOLOGY

CUSTOMER CARE CENTERS

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SPRINT PCS CUSTOMER CARE CENTER

FORT WORTH, TX

- Awarded a 2000 International Illumination Design Award by the Illuminating Engineering Society of North America.

Programming, design and remodel of 78,000 sf of an existing call center operation (357 seat specilied centers) and 70,400 sf of new raised floor (700 seat center) build-out construction for a total new call center operation of 148,400 sf. Work included modification to existing and addition of new mechanical and electrical systems, including a new UPS system, and a new emergency diesel generator backup system. Design included new training facilities, new agent rooms, new lounge/toilet areas and modifications to existing open office areas. Agent Rooms utilized indirect lighting with "floating cloud" elements. Other design features included revitalized color palettes, metal accent elements, office storefronts along "interior streets" and new modular furniture systems. Construction was phased within the 24/7 facility.

SPRINT NATIONAL CUSTOMER SERVICE CENTER

DALLAS, TX

Renovation of 98,000 sf of existing office space to accommodate a new national headquarters for customer service (200 seats) and employee training. Work included modification of existing mechanical and electrical systems, installation of new lighting, UPS systems, and modernization of a 200 seat employee dining and kitchen facility.

SPRINT REGIONAL CUSTOMER SERVICE CENTER

FARMERS BRANCH, TX

Renovation of 125,000 sf of new office space to accommodate Sprint's expanded customer service and employee training functions (250 seats). Work included modification of existing mechanical and electrical systems, installation of new lighting, UPS systems for 700 workstations, and new training facilities.

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TECHNOLOGY

CAMPUS PROJECTS

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FLEXTRONICS INTERNATIONAL TEXAS TECHNOLOGY CAMPUS

PLANO, TX

Programming, design and interior construction in a four-building office and manufacturing complex consisting of 546,675 sf. The complex is situated on 129 acres. Flextronics, headquartered in Singapore, is a leading Electronics Manufacturer Services (EMS) provider focusing on supply chain services to technology companies. The campus is designed to operate on a 24/7 basis. Over 175,000 sf of office area was programmed, and designed to include reception and waiting areas, conference and training areas, open-office workstations, private offices, breakrooms and new toilets within each building. A vivid color palette and materials along with indirect and direct lighting were selected to provide a pleasant working environment for a multi-shift operation. New furniture was selected and existing furniture refurbished to compliment the colors and material selections. Nearly 368,000 sf of manufacturing in the four buildings is planned for multiple SMT, PTH and back plane lines. New overhead infrastructure consists of communication cable trays, sprinkler systems, 277v and 480v electrical lines at 10'-0" o.c. and pull boxes at 20'-0" for the entire width and length of the building. Compressed air and vacuum lines were also incorporated. The infrastructure allows for any building to be converted quickly to specific manufacturing requirements of the customer. Currently, 83,500 sf contains metal fabrication (steel, copper and aluminum), a product introduction center, PCBA, integration, warehouse functions and a future paint booth operation. Additional infrastructure for this operation included argon, oxygen and nitrogen lines in addition to compressed air and vacuum lines.

CITY OF RICHARDSON PUBLIC SAFTEY COMPLEX

RICHARDSON, TX

Design and construction of a 10,000 sf, 2 Story communications complex to house 911 dispatch operators for the Police and Fire Departments and an emergency operations center (40 seats). Facility includes raised floor operator center, complete UPS system with battery backup, emergency diesel generator, complete halon protection and internal security system. The facility operates 24/7.

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ALCATEL, USA
(FORMERLY DALLAS SEMICONDUCTOR EMERGENCY POWER GENERATION PLANT)
PLANO, TX

Design and construction of DSC's emergency power generation plant to provide emergency power to a multiple building manufacturing and research and development campus located in Plano, TX. The project consisted of the addition of dual 15KV utility feeds from two different substations brought into new 15KW electrical switchgear, three 15KV-20000KW emergency generators and an all new 15KV power distribution system to all the manufacturing and research and development buildings. An architectural precast concrete enclosure, compatible with the existing campus, was built to house the generators and refueling. Future expansion will include three additional 15KV-2000KW emergency generators and future power distribution as future buildings are developed.

SOUTHWEST DIVISION HEADQUARTERS
IRVING, TX
LAS COLINAS, TX
- Building One
  100,000 sf
- Building Two
  60,000 sf
- Building Three
  70,000 sf

Building One is the information management system (IS) facility in a new 4 story building. The facility includes a 40,000 sf raised-floor data center, a 10,000 sf raised-floor printing and billing area, 40,000 sf of support personnel, and 10,000 sf of power and telephone equipment area, includes space for 5 cooling towers, a chilled water system loop, a new 2,500 kw transformer and 4,000 amp electrical service, 2 UPS modules with battery backup and space for 3 emergency generators (2 on line initially), load shedding equipment and a new freight elevator for the data center facility

Building Two, a new 3 story building, include customer cervice, credit and credit management and collection department of approximately 50,000 sf and a 10,000 sf, 200 seat employee cafeteria seating and associated kitchen facilities.

Building Three, a new 4 story building, houses the executive, telemarketing, marketing, personnel administration, internal communications, and operations departments.

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