MISSION CRITICAL SERVICES

HVAC   SHEET METAL & PIPING  •  COMMISSIONING  •  RETRO-COMMISSIONING
PLUMBING   •  BUILDING SERVICES • PROCESS PIPING • ENGINEERING
BIM/3-D MODELING • FABRICATION • BUILDING AUTOMATION SYSTEMS
INDUSTRIAL CONSTRUCTION & PIPING • ENERGY SERVICES • RIGGING
Since the advent of mainframe computing, ACCO has been a pioneer in the design, installation, and maintenance of high-performance mechanical and control systems for the data center environment.

As the sophistication of critical facility infrastructure has evolved, so has the depth and breadth of ACCO’s Mission Critical Services. Learn how the collective resources of the United States’ largest independent mechanical and controls contracting firm can ensure the success of your next project.

**WHAT WE DELIVER:**

- Construction and retrofit of mechanical and control systems for the lowest life cycle cost.

- Safeguard the temperature, energy, and fault-tolerant performance of mechanical infrastructure through expert maintenance and monitoring services.

- Dedicated and consistent project teams with a specialized focus on Mission Critical Services.
ACCO Engineering: Innovation in Action

Having completed more than 5 million square feet of data center facility retrofitting, modernization or installation, ACCO’s Mission Critical Services has gained technical insights few can match. Our innovative and highly practical design solutions have produced some of the lowest verified PUE’s in the industry, installed for the lowest cost per megawatt.

**DESIGN-ASSIST AND DESIGN-BUILD SERVICES**

We promote open collaboration between designers and builders. Under a design-assist approach, we lend our decades of expertise to help your team analyze constructability, cost estimate scenarios, equipment and material logistics, and mechanical space planning. No matter where you may be in your design development process, ACCO’s Mission Critical Services can be counted on to help.

For owners and builders who pursue a full design-build approach, you can benefit from our 85+ strong professional engineering staff. Our design-build services range from site selection and feasibility consulting to full engineer-of-record responsibility. We can successfully design and install all cooling, ventilation, domestic plumbing, digital controls (including PLC-based architecture) and fuel oil systems. This gives you single source accountability with no disconnect between the designer and contractor, and of course guaranteed price protection.

**PREDICTABLE ENVIRONMENTAL AND ENERGY PERFORMANCE**

ACCO’s Mission Critical Services provides comprehensive computational fluid dynamic (CFD) and energy modeling services for both new construction and retrofit projects. We will analyze performance variables such as KWh consumption, air capture rate, leakage or bypass rates, temperature gradients, server fan performance, and equipment life cycle run times, with a degree of accuracy we can demonstrate and, ultimately, that you can trust.
ACCO Stands at the Forefront of Virtual Design and Construction

Virtual Design, Building Information Modeling & Construction

ACCO’s Mission Critical Services is an industry leader in 3D and BIM CAD modeling. Built over a 12 year history, we maintain a staff of 90+ 3D and BIM CAD professionals, including many individuals that learned mechanical construction in the field as piping and sheet metal foremen. This experience means you’ll get practical, real world solutions to complement the engineering expertise of our group.

We work with all the popular industry file formats and modeling environments, providing a seamless integration and coordination process between architect, consultants, and contractors. We have the ability to lead and host your entire 3D and BIM coordination process, whether it be live or online meeting sessions. In addition to the 3D environment, ACCO’s Mission Critical Services can embed robust and valuable information within the model to support critical operation and maintenance needs.
ACCO’s Mission Critical Service’s brings a fully integrated (design + electrical contracting + technical labor) solution that bridges many of the historical gaps found between mechanical and IT system controls. Our controls expertise includes:

- PLC, BACnet, LONWORKS, and Modbus protocol integration
- Proven redundant and fail safe control strategies
- Robust and fully customizable graphical front end workstation
- Disaster recovery and remote monitoring services
- Backup generator monitoring
- UPS, PDU, and static switch system monitoring
- Lighting and access control integration
- Real time energy monitoring, online power depiction, and adaptive optimization
- Branch circuit monitoring, rack circuit management, server fan monitoring, and phase monitoring
- Commissioning support, reporting, and verification systems
Testing and Commissioning

ACCO’s Mission Critical Services provides industry-leading experience and expertise in the start-up, functional performance testing, air and water balancing, and commissioning of today’s complex mechanical systems. When we turn over your mechanical and controls systems, you can be assured they will meet or exceed the predicted design temperature and energy performance.

Energy and Cooling Capacity Retrofit Service

Legacy U.S. data center facilities operate at PUE’s 2 to 3 times higher than today’s more efficient facilities. We have the proven and rapidly deployable retrofit services to cost-effectively help you modernize your facility. ACCO Mission Critical Services has developed cutting-edge strategies that allow more server density, greater white space availability, and markedly increased cooling capacity. In many cases, we are able to secure substantial utility rebates to compound direct energy savings. Your return on investment can exceed 35% for even modest upgrade projects. Add the potential increased revenue or productivity through greater server densities, and you have one powerful value proposition that also results in a more sustainable and marketable facility.

Maintenance and Monitoring Services

Recent studies have shown the PUE performance of a new data center can degrade 30% or more within a year of installation, simply due to insufficient or unskilled mechanical maintenance and energy performance monitoring. ACCO Mission Critical Services offers a full suite of mechanical, electrical, and power distribution maintenance services for your facility. Like our testing and commissioning teams, our maintenance experts are all in-house personnel, leaving nothing to chance in the way of quality and dependability. Our ultimate goal: 100% point-to-point operability confidence across your entire MEP infrastructure, 24x7x365.

In addition to our on-site maintenance services, ACCO’s Mission Critical Services provides 24/7 staffed monitoring of your facility as a redundant and fully hosted solution to supplement or outsource your internal operations.
Plumbing and Fuel Oil Systems

ACCO’s Mission Critical Services prides itself in being a single source solution for your entire critical mechanical infrastructure. In addition to cooling and control systems, we have decades of experience in the fabrication and installation of dual containment fuel oil storage and piping systems for emergency generators. Whether under or above ground, we will provide a turnkey solution that includes all general engineering work and full integration with our facility control and monitoring systems.

National Reach

ACCO Mission Critical Services has established itself as a leading national mechanical services firm specializing in advanced data center facilities. Last year alone we designed, retrofitted, or installed more than 100 MW in mechanical and control systems across the United States. Our team stands ready to execute with the responsiveness, speed of delivery, and technical know-how you demand for your projects.
ACCO LOCATIONS

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Commerce Sheet Metal Shop
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