

# AVIATION SOLUTIONS





# Aviation Solutions

Womack Electric Supply Company understands that the airline industry is where performance, reliability and safety matter most. In addition to employing highly specialized personnel, airline facilities depend on a complex series of electrical systems to operate efficiently. Modern facilities are only as effective as their electrical components. Amidst an ever-changing technological landscape, we provide cutting-edge electrical products from the most respected manufacturers in the industry.

Whether you are in the process of sourcing components for routine maintenance or are considering operational expansion, rely on us for all of your electrical needs. We are here to aid in completing any size project on time and on budget. Womack has the inventory, product breadth, expertise and service that delivers the best overall value.

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# Our Commitment



Airline facilities rely on a complex and multi-faceted electrical infrastructure to operate safely, without interruption. With escalating energy costs, tightening regulations and price sensitive consumers, we understand the challenges you're faced with. That is why we offer sustainable solutions that are both initially cost sensitive and energy

efficient, providing a substantial return on investment.

Established in 1938, Womack Electric's customer centric philosophy serves to focus our efforts on consistent conformance to customer expectations for quality products and professional service. We understand that our own success is a direct result of the success of those we serve. We articulate this philosophy every day in the capabilities and pride of workmanship of every Womack Electric employee serving you.

Womack Electric is proud to be a member of the Crescent Electric Supply family and is dedicated to being the leading distributor of quality products and value-added services. Crescent Electric is one of the eight largest electrical distribution companies in the U.S. Crescent Electric serves contractors, as well as, commercial, institutional and industrial customers with a broad line of electrical, lighting, industrial, automation and datacomm products from branches nationwide.

# Our Value

## Local Service, National Support

- Local, Extensive Inventory
- Convenient Locations
- Wire & Cable Management
- Pre-Fabrication Solutions
- Womack University – Training
- Online Billing & Accounting
- Customer Service Guarantees
- Estimation Software Solutions
- On-Staff Solutions Specialist
- Contractor Marketing Solutions
- Tool Sales & Service Center
- Daily Deliveries
- Kitting Capabilities
- Staging & Storage
- Custom Solutions
- 24-Hour Emergency Support
- Inventory Services & Solutions
- Project Management Services
- WES Connect - Online Ordering







# Gates and Terminals

Whether the aim is to reduce energy consumption or labor hours, operational efficiencies can be achieved through a number of solutions. Increased safety and convenient power access are attainable as well.

## **Charging Outlets**

Offer users more options for their charging convenience. These outlets provide both USB Ports and standard receptacles to allow for increased charging versatility and stand up to frequent use with exceptional durability.

## **Floor Boxes and Poke Throughs**

Deliver power precisely where it is needed, when it is needed. Floor boxes allow you to safely provide and control access to electrical power, A/V, and communication devices in open spaces.

## **Occupancy Sensors**

Reduce energy costs by turning off lights and outlets automatically when gate holds are not in use. Increase safety by turning lights and devices on when people are present. Available for wall mount and ceiling mount applications.

## **Plug Load Controllable Outlets**

Providing additional energy usage control, whether occupancy sensor controlled or schedule controlled, these wiring devices only deliver power when needed, resulting in significant energy savings and extended life of monitors.

## **Programmable Surge Strips**

Eliminating the draw of vampire loads, when devices are not in use, can result in significant energy savings. When a master product is turned off, such as an office computer, all other associated devices shut down.

## **Retrofit LED Lighting**

Increase both energy and maintenance savings without sacrificing aesthetics. Additionally, LEDs allow for increased connectivity and controllability through Building Management Systems and POE. Low heat emissions also offer savings in climate controlling.

# Bridges

Connecting the terminal gate to the airplane requires a complex combination of systems. We connect you with the necessary electrical components to keep bridges operating safely and efficiently.

## Wall Mount Occupancy Sensors

Reduce energy consumption by controlling lighting in tunnels. The average jet bridge serves 10 flights a day with a one hour turn-around time. This means that there are 14 hours each day that lights could automatically be turned off, resulting in significant energy savings.

## LED Retrofit Strips

LED lighting offers a substantial return on investment. Not only do LEDs consume less energy than traditional lighting, they also last significantly longer, reducing maintenance and relamping costs.

## Type W and SOW Cord

Flexible power cord sets must be able to stand up to harsh environments and hazardous applications. Whether the cords are suspended under bridges or in pantographs, they play a pivotal role in transferring power and facilitating communication to accommodate timely turnaround.

## Cable Management and Strain Reliefs

To ensure that power cords and cables can perform their function, they must be secure. This not only increases the products useful life, it also reduces unscheduled maintenance and timely delays.

## Flood Lights

Adequate light plays an essential role in the safety and effectiveness of employees, both at night and in inclement weather, under and around bridges. LED Flood Lights not only provide the appropriate amount of light, they also reduce energy and maintenance costs.

## Variable Frequency Drives

Modern drives offer increased control, easier programming, faster replacement and installation, and they are more energy efficient. Connectivity options are also available which provide the added benefit of process and asset optimization.

## CCTV Cameras

Visual communication and the ability to see ground crews from the bridge is a necessity, even when direct line of sight is not possible. CCTV provides that capability, as well as allowing for the performance of integral tasks remotely.





A large, modern hangar with a high ceiling and a corrugated metal exterior. The interior is brightly lit with numerous warm-toned lights, creating a warm glow. A private jet is parked on the tarmac in front of the hangar. The sky is a mix of pink and purple, suggesting a sunset or sunrise.

# Hangars

Gain greater control over energy costs and working conditions with products designed specifically to provide maximum performance in large working areas.

## High Bay LED Lighting

High mounting requirements can make routine maintenance and relamping of high bays a costly challenge. LEDs last longer, require less maintenance and consume less energy than traditional HIDs and Linear Fluorescents. Additionally, they deliver excellent color rendering to working surfaces, making it easier to identify fluid types and wire colors, allowing for more accurate diagnostics and increased safety.

## Wireless Lighting Control

Convenience and savings are just two of the benefits that can be achieved with wireless lighting controls. Retrofits are made easy, even if no existing control wiring is in place. Controls can also provide for the upfront cost recuperation through utility rebates, as well as offer sustainable energy savings by incorporating occupancy sensors.

## Meltric Pin and Sleeve Power Connectors

Switch-rated plugs and receptacles combine the safety and functionality of a switch with the convenience of a plug and receptacle. These devices help to ensure worker safety while also reducing equipment maintenance downtime and labor costs. Switch-rated plugs & receptacles eliminate the need for expensive auxiliary disconnects and enable plug & play equipment change outs.

## LED Flood Lighting/Area Lighting

Hangar exteriors are yet another application where LEDs provide more for less. These fixtures offer higher lumen outputs, with greater efficacy ratings, than traditional lighting sources, while consuming less energy and requiring less maintenance. Improved lighting quality also lends itself to improved safety and security in the work space.

## Variable Frequency Drives

Improved motor performance and increased component lifecycles are achievable through today's drives. Whether used in operating hangar doors, hoists or cord reels, modern VFDs provide improved control, durability, safety and energy efficiency. Ease of programming and wide ranges of compatibility make installations convenient.

# Hospitality

Convenient access to power, along with a clean and attractive environment, is a necessity around food courts and lounges. Contact us to learn more about products that cater specifically to these areas.

## Charging Outlets

Provide users the ability to charge multiple devices at one station. Whether they are in need of a USB Port, a traditional receptacle or both, these stations can meet the changing requirements of up to four devices at the same time.

## Decorative LED Lighting

Artistic and architectural lighting can play a major part in the aesthetics of an airport. LED lighting can provide these benefits, while reducing relamping requirements and energy consumption. Additionally, LEDs can offer increased controllability, along with numerous color options.

## Antimicrobial Treated Devices

Help combat the spread of germs to both staff and the public with these switches and wall plates. By incorporating an antimicrobial additive into the product material, these devices help to inhibit the growth of mold, mildew, fungi and bacteria on frequently touched switches and wall plates between normal cleanings.

## Occupancy Sensors

Safety and energy savings are two major concerns. Increase both with occupancy sensors, which automatically turn lights on when people are present and turn lights off when spaces are empty. From large open areas to offices and small closets, sensors can be mounted on ceilings or walls.

## Modular Devices

Plug and play wiring devices make changing out outlets and switches simple and fast, saving up to five minutes of labor per device. Whether replacing one outlet, or completely rewiring a project, these devices make the job a snap.







# Baggage Conveyors

We offer highly efficient drives and motors to get more power from less energy. Unique applications? No problem. We also provide custom solutions to keep your conveyors up and running smoothly.

## **Custom Assembled VFD's**

Flexibility is often essential in remaining operational or minimizing down time. There are situations where a rebuild is not realistic and a stock replacement is either not possible or cost prohibitive. That is why we offer the capability of designing and building custom drives to meet the needs of unique applications.

## **BALDOR Motors with AEGIS® Bearing Protection Ring**

High-efficiency and heavy-duty, these motors meet or exceed NEMA Premium® requirements for LEED and FEMP buildings and are designed to be used with variable frequency drives. They also offer dynamically-balanced rotors for reduced vibration, increasing component lifecycles and providing quiet operation.

## **Hubbell MotorQuick™**

Drastically reduce the time it takes to replace motors by utilizing the plug-and-play technology of the LINKOSITY™ power system and the versatility of the Circuit-Lock™ motor disconnect switches. Motor change-out time will be reduced by over 65%!

## **LED Lighting**

Increase safety and visibility while decreasing energy and maintenance costs by using LED lighting under catwalks, in garages, and in carousel areas. LEDs can meet the demands of high abuse environments and can be coupled with greater controllability than traditional lighting to expedite ROI.



# Portable Equipment

Whether you're in the middle of the hangar or out on the tarmac, portable equipment requires power in remote locations. We offer the cords, connectors, and disconnects to supply power where it is needed, when it is needed.

## **Meltric DECONTACTOR™ Series DSN150**

High-performance plug and receptacle, suitable for branch and motor circuit disconnects, for PCA and GPU applications, the DSN pin and sleeve system is a smaller, lighter and safer alternative to the competition. The easy closing mechanism facilitates the connection and Type 4X water tightness is automatically achieved.

## **Meltric DR400 Pin and Sleeve Device for 400 Amps**

Exclusive safety, performance and convenience features make this high amperage plug and receptacle ideal for power distribution, shore power, and generator connections. They offer maximum performance and durability in a compact form when compared to the competition.

## **Pin and Sleeve Receptacle Safety Disconnects**

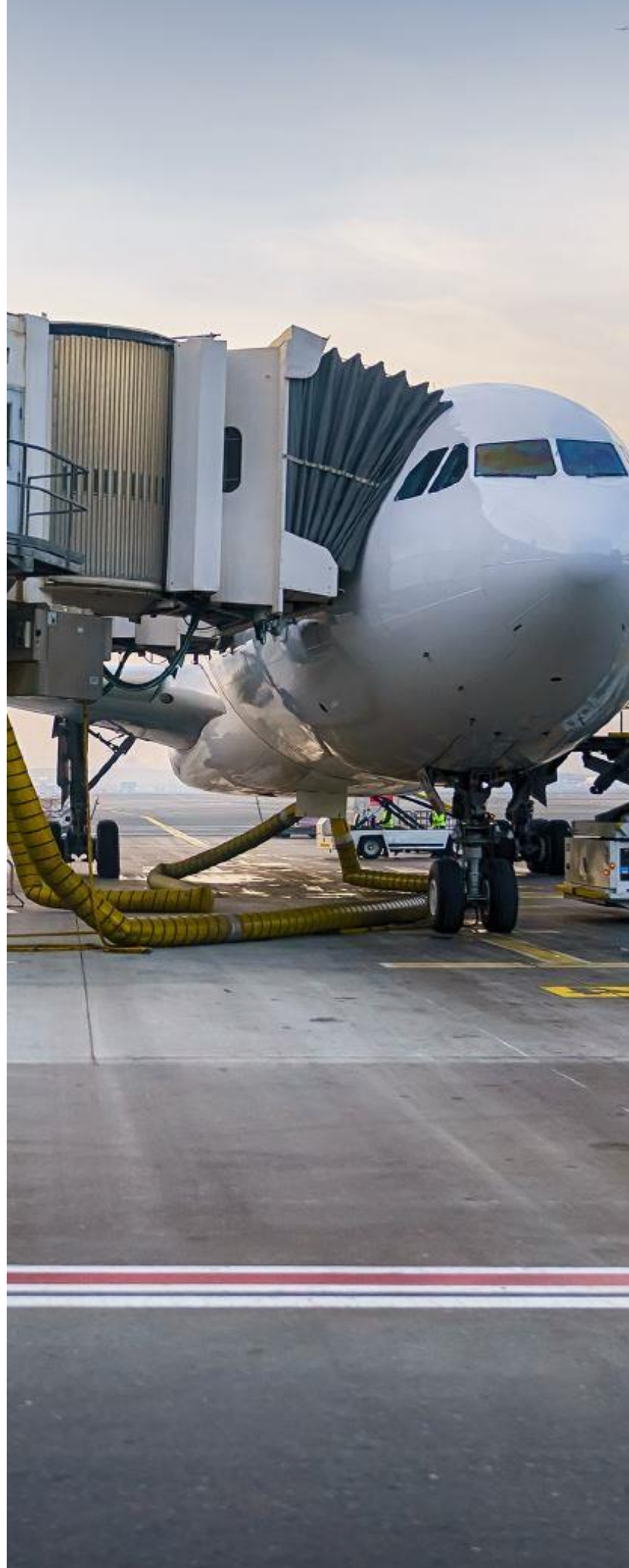
Provide greater control and additional safety, with ground fault and short circuit protection, in both PCA and GPU applications. Available in 150A, 200A and 400A, there is now a safer disconnect option for each of these power sources.

## **Factory Assembled Custom Length Cord Sets**

Substantial safety and labor savings can be achieved through UL listed, factory assembled cord sets. Custom manufactured to meet the most demanding applications, these assemblies can be ordered in multiples or as needed, in any configuration required.

## **LED Work Lights**

Increase safety and productivity in work areas where fixed lighting is not feasible. LEDs offer temporary lighting solutions that are as portable as they are durable and they last longer and consume less energy than traditional task and area lighting.









# Power Distribution

More than just electrical components, we provide services and solutions that don't come in a box. They come from thinking outside of it.

## Engineering Services

Failure to maintain safe working environments and comply with regulations can have severe consequences. We can help mitigate risk exposure by providing arc flash studies, preventative maintenance assessments, inspect for code compliance, as well as offer scalable and sustainable solutions to antiquated systems.

## Turnkey Solutions

Take the worry of compatibility out of equipment replacement. We offer total project management and can often provide solutions with one manufacturer for product, engineering and installation, to see the job through to completion.

## Motor Control Center (MCC) Modernization

Complete replacement of a Motor Control Center may not be in the budget, but down time is not an option. We can supply everything you need, including state-of-the-art breakers, to modernize your existing system.

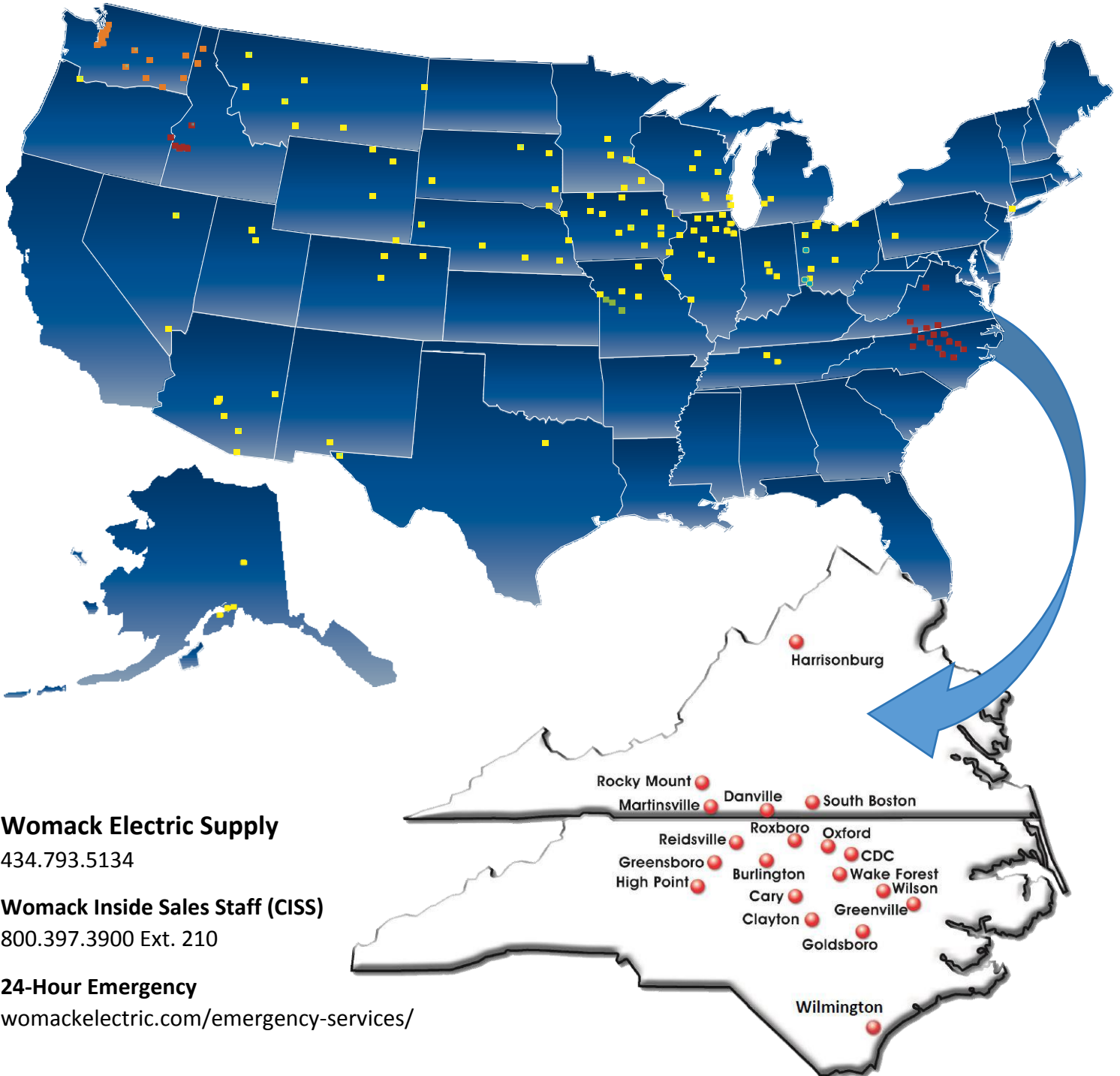
## Custom Power Distribution Control Services

Specific features and functionalities are needed to make sure that power is delivered where you need it, when you need it. We can design and build custom control boxes to meet your current needs and ensure added capacity for future growth.

## Power Distribution Audits

Hazardous environments and unsafe equipment often get overlooked in day-to-day operations. We can inventory the current state of your facility, perform a risk assessment, identify unsafe repairable equipment and produce a rough order of magnitude (ROM).





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**24-Hour Emergency**

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