




MILBANK[®]
ENERGY AT WORK

Enclosed Controls
Product Portfolio



MILBANK
ENERGY AT WORK

ENCLOSED INDUSTRIAL CONTROL PANEL
TYPE: CP-99, GANTRY/REMA TYPE 99
SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT
SEE USER MANUAL (LINK) FOR ALL OPERATIONAL
DO NOT BREAK SEALS - NO FORCES INSIDE THIS SECTION



Milbank is a family-owned American manufacturer headquartered in Kansas City, Mo. Since 1927, Milbank has set the standard for high quality metering equipment and enclosures. Milbank's portfolio includes single position meter sockets, meter combos, heavy duty and instrument rated metering, RV/mobile home pedestals, terminal/tap boxes, A/C disconnects, enclosures and a wide variety of enclosed controls.

The Enclosed Control Advantage

Milbank develops customized control equipment to solve power distribution needs. Working with municipalities, utilities and engineers, we develop specified products that can meet individual needs—all in one secure enclosure. Our engineers specialize in designing enclosed controls to suit nearly any specification requirement.

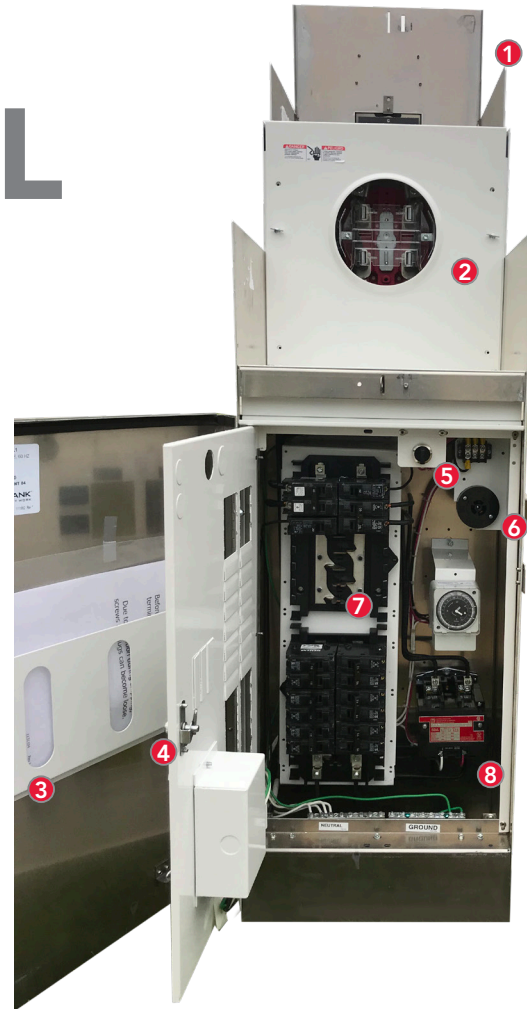
Our most common enclosed control is the commercial pedestal, an attractive, secure, easy-to-install and cost-effective solution when underground remote site power distribution and control equipment is required. These pedestals can be metered or unmetred and adapted to an array of applications.



Anatomy of a common

COMMERCIAL PEDESTAL

See the diagram on this page for the most common features Milbank's commercial pedestals offer.



- 1 The **meter hood** closes to protect the meter socket and electric meter. A transparent window is included for meter reading purposes.
- 2 The **meter socket** is the connection point of the electric meter. Available in several variants—ringless and ring type, with lever bypass and test switch options.
- 3 The **print pocket** provides a secure place to store wiring diagrams and other reference material.
- 4 The **deadfront** offers access to breaker switches while protecting against other live electric components.
- 5 The **Hand-Off-Auto switch** gives the ability to switch individual circuits to manual (hand) control, to the off position or to automatic control via time clock or other control equipment.
- 6 The **PE receptacle** detects when the level of ambient light is low enough (either from the sun setting or from heavy cloud cover) to activate lighting circuits.
- 7 The **load center** distributes electric energy from the utility to the numerous circuits controlled by the pedestal, utilizing circuit breakers for safety and protection.
- 8 A **contactor** is used for switching circuits with higher current ratings.

Some of the most common applications for commercial pedestals include traffic signals, street lighting, athletic field lighting, site power for events and festivals and power distribution for EV charging stations.

Customization is available beyond the standard options.

COMMON APPLICATIONS



Municipal Power

- Traffic Signals
- Street Lighting
- Public WiFi
- Battery Backups
- Security/Surveillance

Site Power

- Fairgrounds
- Portable Offices
- Festivals
- Holiday Lights
- Farmers' Markets

Communications

- Cell Towers
- Telephone Vaults
- 5G and Small Cell

Motor Control

- Irrigation
- Sprinklers
- Lift Stations
- Gates
- Pumps

Outdoor Lighting

- Sports Complexes
- Parking Lots
- Rail Yards
- Landscaping
- Subdivision Entrances

Power Distribution

- EV Charging
- ATMs



The Alternative: Strut and Backboard Systems



Vulnerable to power theft



Longer installation



Visually disruptive to green spaces and cityscapes



Larger footprint

Surface-Mount Enclosed Controls

Originally developed for the communications industry but adaptable to many applications, the surface-mount enclosed control offers the flexibility of larger enclosed controls products with a smaller footprint and several mounting options.

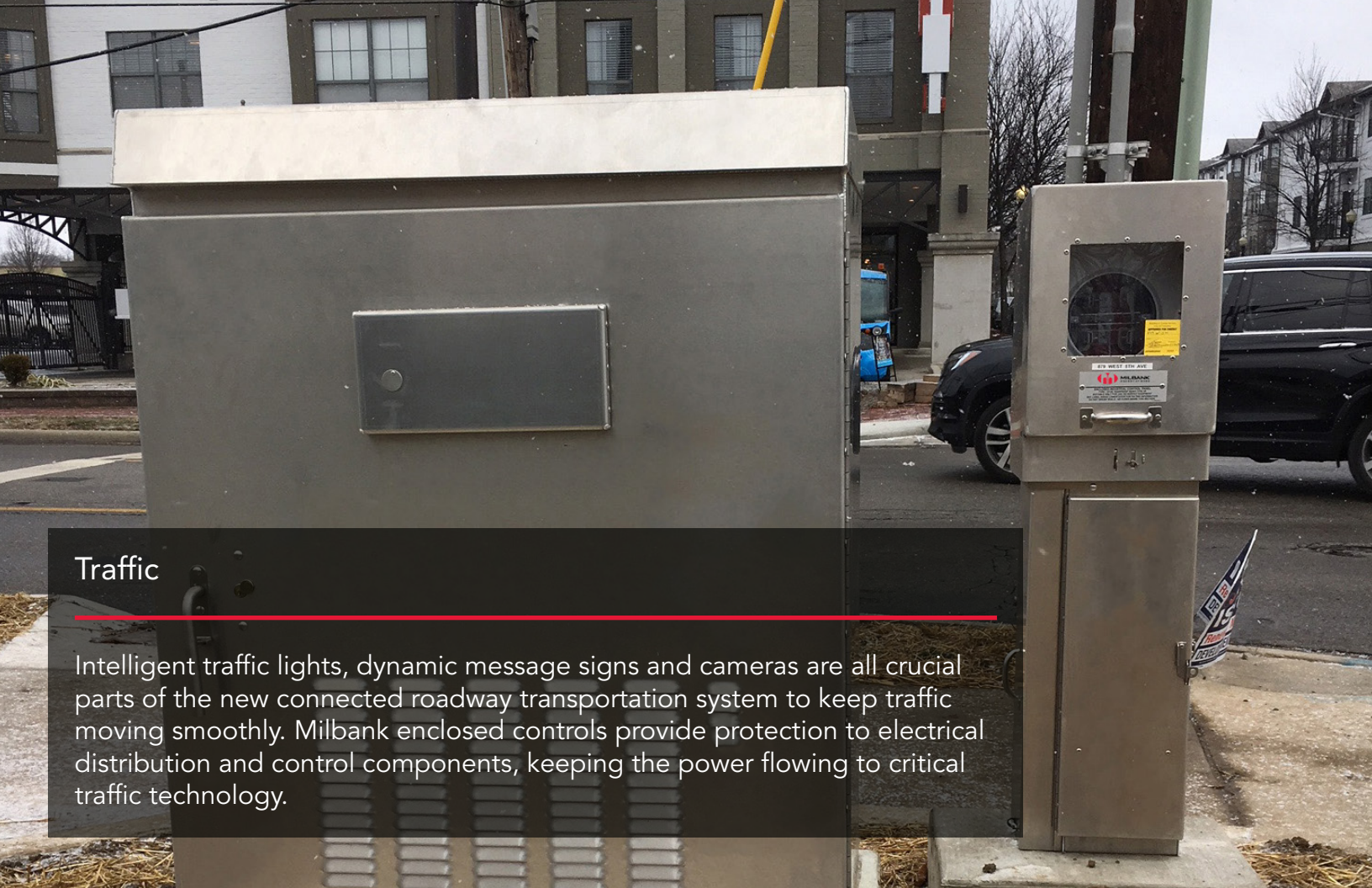




Features & Benefits

- Easy installation
- Overhead and underground entry and exit, all in one unit
- Meter and components in one enclosure
- Can be mounted on multiple surfaces
- Multiple bypass options available
- Monitoring options available
- Does not take up sidewalk space
- Flood resistant
- Eliminates need for connecting components
 - Wire in - Wire Out

COMPACT PRODUCT



Traffic

Intelligent traffic lights, dynamic message signs and cameras are all crucial parts of the new connected roadway transportation system to keep traffic moving smoothly. Milbank enclosed controls provide protection to electrical distribution and control components, keeping the power flowing to critical traffic technology.



Battery Backup (left)

- With or without batteries
- Switching equipment
- Thermally-controlled fans
- Dual meter option for secondary loads

Slimline (right)

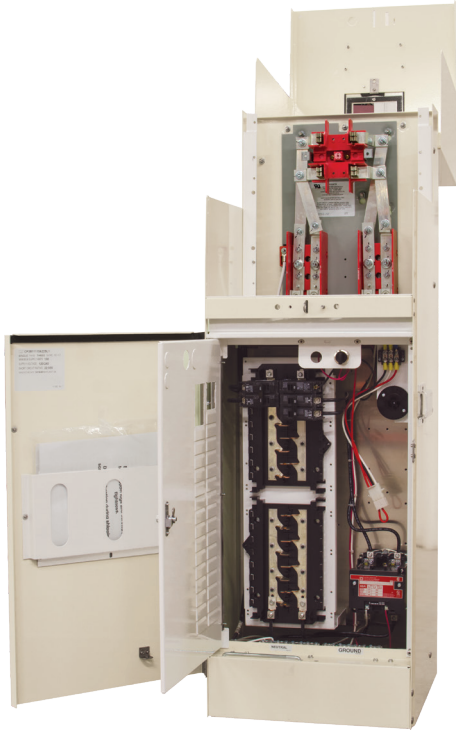
- 12-inch (shown) and 20-inch wide options available
- Side utility section allows for very close placement to walls and other obstructions.

TRAFFIC



Outdoor Lighting

Milbank enclosed controls are safe and secure, protecting electrical distribution and control components that light parking lots, pathways, parks, bus stops and more.



- Contains a load center for “always on” loads that includes a main circuit breaker, as well as a load center connected to a PE receptacle and contactor for timed, controlled loads.
- Optional light shield for PE receptacle helps prevent light cycling due to automobile headlights.
- Can be painted any color to match and blend in with surroundings.
- Exposed meter option for unobstructed signal transmission with AMR systems.

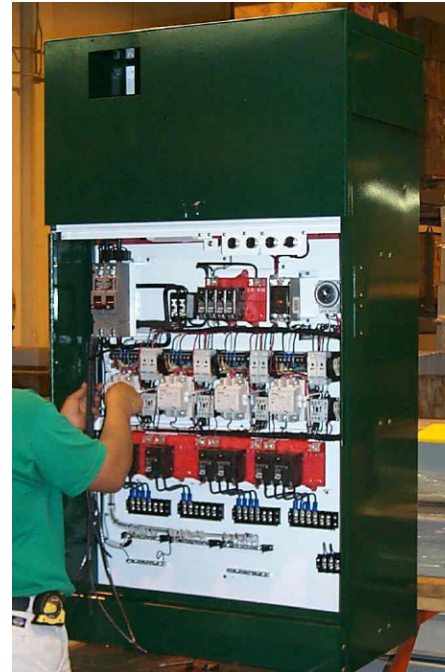
OUTDOOR LIGHTING

Sports Lighting

Milbank enclosed controls can include sophisticated controls for athletic lighting systems, including timers, push button starts and buzzers to warn when the lights are about to turn off.



- Capable of four separate remote light “on” buttons, ideal for larger tennis court and baseball field complexes.
- Can include remote monitoring and control equipment to track usage and ensure system is working properly.
- Additional power distribution can be added to feed loads such as concession stands, scoreboards, utility sheds, etc.



SPORTS LIGHTING

EV Charging

The number of electric vehicle charging stations will increase dramatically in the coming years. Milbank designs power distribution solutions for these units with many options for customization.



KCP&L
clean charge network

TO CHARGE

1. Insert your ChargePoint card, contactless card or other approved option near the card reader. You may also use the ChargePoint app to start a charging session.
2. Check authorization, bring the connector to your vehicle.

TEST STOP CHARGING

1. Hold your ChargePoint card, contactless card or other approved option near the card reader.
2. Remove the connector from your vehicle.
3. Any issues? Please contact ChargePoint Support at 1-888-361-0011.

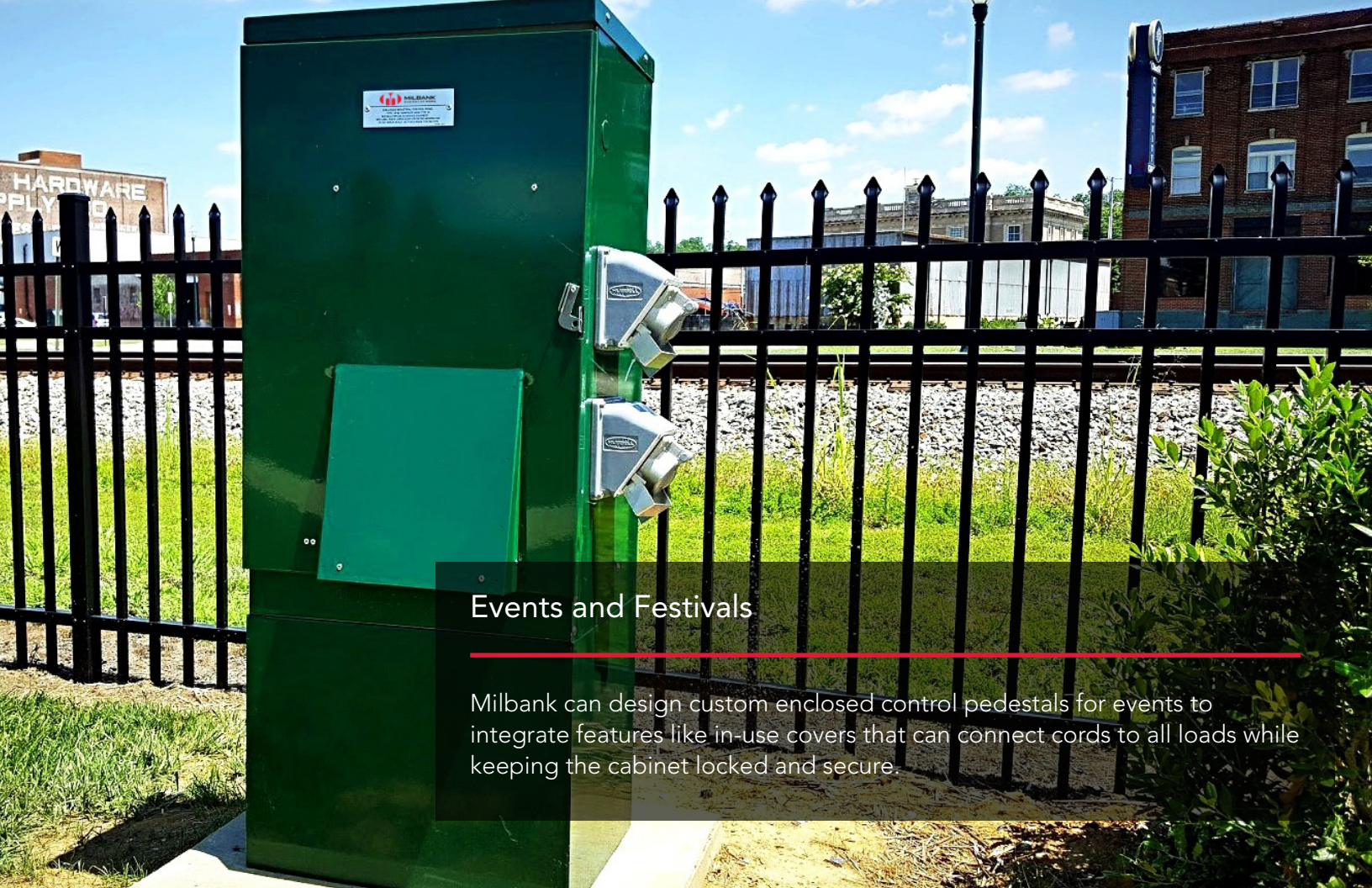
ABOUT THE KCP&L CLEAN CHARGE NETWORK

Free charging courtesy of **Hwy**



- Available with non-, single- or dual-metered options for applications when lighting and EV charging usage need to be metered separately.
- Single- or three-phase configurations
- Dual voltages available in the same unit.

EV CHARGING



Events and Festivals

Milbank can design custom enclosed control pedestals for events to integrate features like in-use covers that can connect cords to all loads while keeping the cabinet locked and secure.



- High-amperage main breakers for heavy loads
- Receptacles, including standard GFI and cam-lock, included to specifications
- Metered and non-metered configurations
- Color and finish customization options available

EVENTS & FESTIVALS

Multiple Sizes Available

Milbank offers multiple sizes to fit the needs of small and large applications. Ranging from the 12-inch slimline to the new 46-inch instrument rated enclosed control. Our enclosed controls specialists will help you choose the right size for your application.





MILBANK®



12 inch

Slimline

- 12 inch
- 20 inch



16 inch

Standard CP

- 16 inch
- 24 inch
- 32 inch
- 44 inch



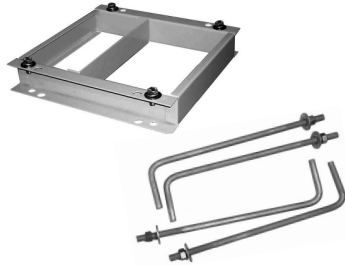
46 inch

Instrument Rated

- 24 inch
- 32 inch
- 42 inch
- 46 inch

AVAILABLE SIZES





Embedded Concrete

- Pad-mount: Available for all pedestal sizes
- Anchor Bolt: Kit comes with four 18-inch bolts



Wall- and Pole-Mount

- Custom cabinet sizes
- Available in aluminum to reduce weight and make for an easier installation
- Several latch and locking mechanisms available



Direct Bury

- Use with any 12-inch Milbank slimline pedestal
- No concrete required
- Shorter pieces reduce cost of shipping

MOUNTING OPTIONS





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Case Studies

East 19th Street
WESTBOUND



Case Study: Energys (formally KCPL) EV Charging

Background & Challenge

In January of 2015, KCP&L announced its plan to rapidly expand its network of 40 public electric vehicle charging stations. The Clean Charge Network now consists of nearly 1,000 electric vehicle charging stations — more than any other U.S. city. In order to build its Clean Charge Network, KCP&L wanted a single device that incorporated meter and service panels to streamline construction. They needed an alternative to a laborious installation requiring a support structure to mount meters, disconnect switches and load panels.



“Milbank was able to custom tailor products for our needs and meet the rapid deployment timeline. The product solution streamlines field construction and provides an aesthetically pleasing installation.”

—Ed Hedges, KCP&L Project Engineer

The Solution

Milbank engineers worked closely with KCP&L to design a safe, durable and sleek enclosed control with minimal impact on streetscapes. The pedestals are UL listed, lockable, sealable and metered. They save time, money, space and materials by including the distribution panel, disconnect and overcurrent protection.

Implementation

The enclosed control was designed for a quick, repeatable installation. As the project evolved, KCP&L needed different designs based on location, type and number of charging stations. Milbank was able to quickly and easily produce designs that fit their changing needs. KCP&L is currently using five different Milbank models.

Case Study: Lighting Controls Retrofit in Chicago



The Problem

Built by the City of Chicago in 1958, the Skyway Toll Bridge connects Northwest Indiana to the heart of Chicago and spans 7.8 miles long. The bridge had 19 aging lighting control cabinets that needed to be replaced. The challenge was that the new cabinets needed to all be one standard size, but also have the ability to fit on various types of bases and structures.



The Solution

Milbank engineers designed a safe, durable and sleek application to replace the existing cabinets along the bridge. They designed each cabinet with openings that could be adjusted at the base for an easy fit on multiple structures. The new applications have custom features, a sleeker design, updated components and the ability to fit on the various existing bases.



Case Study: Traffic Control Battery Backup in Minnesota



The Problem

Hennepin county was interested in replacing and upgrading the rusting metering cabinets with battery backup units. The unit had to fit in a 17-inch wide area on the signal cabinet pad.



The Solution

Milbank created a custom stacked solution with utility access to the meter on the back side. The unit features custom components like a photo cell receptacle, push button switch, an eight circuit load center and four battery shelves.





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