



ENCORE
LAND AND SEA



GREAT AMERICAN BALL PARK CASE STUDY

CMCE LIGHTNING SUPPRESSION SYSTEM

CASE STUDY

Protecting a Major League Stadium with CMCE Lightning Suppression

Great American Ball Park – Cincinnati, Ohio

Located along the Ohio River in downtown Cincinnati, Great American Ball Park is home to the Cincinnati Reds and one of the city's most recognizable landmarks. The stadium opened in 2003 and has a seating capacity of more than 45,000 fans.

The property combines a large open-air stadium, elevated structural elements, lighting and electrical infrastructure, video and display systems, communications equipment, hospitality spaces, and surrounding public areas—all of which make reliable lightning protection an important part of protecting the facility.

The Challenge

Large outdoor stadiums face unique lightning exposure because of their size, height, open configuration, and concentration of critical electrical and electronic systems.

A direct lightning strike can create risk for:

- Stadium electrical and distribution systems
- Scoreboards and video displays
- Communications and technology infrastructure
- Lighting systems
- Building controls and operational equipment
- Structural assets
- Fans, employees, and surrounding public areas
- Event operations and facility uptime

For a high-profile venue hosting thousands of people, the consequences of lightning can extend well beyond equipment damage. A single event can disrupt operations, impact valuable infrastructure, and create significant safety concerns.

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The Solution: CMCE Lightning Suppression

Encore Land and Sea installed three CMCE-120 Lightning Suppressors to provide comprehensive lightning protection for Great American Ball Park and the surrounding property.

Together, the three CMCE-120 units provide protection across more than 1 million square feet, creating a broad protection strategy designed for the scale and complexity of the stadium.

Unlike conventional lightning protection systems that are designed to receive and conduct a lightning strike after attachment occurs, CMCE Lightning Suppression is designed to help prevent the conditions that allow a direct lightning strike to form within the protected area.

By balancing the surrounding electromagnetic field and reducing the development of upward streamers, CMCE provides a proactive approach to direct lightning risk.

Why CMCE Was a Strong Fit

A stadium requires protection across a large footprint without relying on an extensive network of conventional air terminals and conductors.

With three strategically positioned CMCE-120 units, Great American Ball Park receives broad-area protection for:

- The stadium structure
- Critical electrical infrastructure
- Communications and technology systems
- Stadium lighting and operational equipment
- Surrounding property and public areas

The system operates passively and continuously, providing lightning suppression without requiring an external power source.

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The Result

- 3 CMCE-120 Lightning Suppressors
- 1,000,000+ Square Feet Protected
- Major League Stadium and Surrounding Property Protected

The installation provides Great American Ball Park with an advanced lightning protection strategy designed around prevention rather than strike interception.

For a major public venue where safety, infrastructure protection, and operational continuity are critical, CMCE Lightning Suppression provides another layer of protection against one of nature's most unpredictable threats.

Protect Critical Facilities Before Lightning

From professional sports venues and large commercial properties to industrial facilities, power generation sites, municipalities, and residential towers, Encore Land and Sea designs CMCE Lightning Suppression systems around each property's unique exposure and infrastructure.

