



OCEANA OCEANFRONT CONDOMINIUMS

CASE STUDY

CMCE LIGHTNING SUPPRESSION SYSTEM

CASE STUDY

Oceana Oceanfront Condominiums: Protecting Luxury Coastal Living from Lightning Risk

Oceana Oceanfront Condominiums – Satellite Beach, Florida

Located directly along the Atlantic Ocean in **Satellite Beach, Florida**, [Oceana Oceanfront Condominiums](#) offers residents a refined beachfront lifestyle in the heart of the Space Coast. The community comprises **two 10-story buildings with 108 residences** featuring spacious floor plans, private balconies, and expansive ocean views.

Residents enjoy private beach access, an oceanfront swimming pool and sun deck, a clubhouse, controlled building access, and covered parking—all designed to deliver a secure, comfortable coastal living experience. The oceanfront setting also provides remarkable views of sunrises, rolling waves, and Space Coast rocket launches.

The Challenge

Oceana's direct beachfront location is one of its greatest attractions, but it also creates a unique lightning-protection challenge.

The two high-rise buildings stand prominently along an exposed stretch of the Atlantic coastline. Florida's frequent thunderstorms, combined with the buildings' height and open surroundings, increase concern about direct lightning strikes. Lightning can threaten rooftop equipment, electrical infrastructure, elevators, access controls, communications, fire-safety systems, and other technology residents depend on every day.

A direct strike could result in equipment damage, costly repairs, service interruptions, and disruption to the secure, dependable living experience Oceana strives to provide.



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The Solution

Oceana partnered with Encore Land and Sea to implement a proactive lightning suppression strategy across the entire property.

Encore installed two CMCE-120 Lightning Suppressors—one at the highest point of each building. Each CMCE-120 protects approximately 500,000 square feet, providing a combined one million square feet of lightning-suppression coverage across the community.

Unlike conventional lightning rods, which are designed to receive and conduct a lightning strike, CMCE technology is designed to prevent lightning strike formation within the protected area. The systems operate continuously and passively, providing low-maintenance protection without disrupting the property's appearance or residents' ocean views.

Project Results

With a CMCE-120 installed on each rooftop, Oceana now benefits from a coordinated protection solution designed for its two-building oceanfront property.

The installation:

- Protects approximately 1,000,000 square feet of property
- Provides dedicated lightning-suppression coverage for both buildings
- Helps safeguard residents, staff, rooftop equipment, and critical building systems
- Eliminates the risk of lightning-related damage and service interruptions
- Supports greater operational continuity during Florida's storm season
- Integrates discreetly with the community's modern coastal architecture
- Delivers continuous, passive protection with minimal maintenance requirements

By addressing lightning before a direct strike can occur, Oceana has strengthened its operational resilience while preserving the security, comfort, and uninterrupted beachfront experience its residents expect.



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Project Summary

Property: Oceana Oceanfront Condominiums

Location: Satellite Beach, Florida

Property Type: Luxury oceanfront condominium community

Buildings Protected: Two 10-story residential buildings

Solution: Two CMCE-120 Lightning Suppressors

Installation: One CMCE-120 installed on each building

Coverage Per System: 500,000 square feet

Total Protected Area: 1,000,000 square feet

Primary Challenge: Elevated lightning exposure from the property's beachfront location

Protected Assets: Residents, building systems, rooftop equipment, elevators, electrical infrastructure, communications, and common areas

Results: Proactive, low-maintenance system supporting safety, reliability, and uninterrupted coastal living

Oceana Oceanfront Condominiums provides residents with everything that makes Florida's Space Coast desirable—from private beach access to sweeping Atlantic views. With two CMCE-120 Lightning Suppressors protecting approximately one million square feet, the community has taken a proactive step toward safeguarding its residents, buildings, and coastal lifestyle from direct lightning strikes.

