

Volkswagen Group of America, Inc.

Fire Alarm, Access Control, CCTV, and Security Systems for Automotive Campus



Volkswagen selected SSOE to oversee architecture, engineering, and construction management for its new, greenfield production facility in Chattanooga, Tennessee. SSOE was responsible for the campus' data centers, fire alarm, access control, and CCTV systems.

The data center was designed with multiple cooling systems, power systems, and data routes for redundancy. In addition, a primary and secondary command and response building was designed, each with video walls and several communication pathways.

The campus includes ten, multi-level buildings that were connected in a Style 7 fiber optic network to eliminate communications gaps. The fire alarm system also serves as a mass notification system to alert occupants of all emergency classifications, interfacing with production-based equipment and other internal automation systems. In addition to the fire alarm system, a complete access control system was designed for several of the buildings in the complex. The entire system was designed to be monitored from primary and back-up on-site control rooms; one being the primary monitoring station.

Cameras and monitoring systems were installed around the site and consist of both analog and Internet Protocol (IP) cameras. The CCTV system is connected to the fire alarm annunciator to allow the camera to locate and view a specific area in the event of a fire. The alarm within the facility will automatically be displayed on the video wall.

The fire alarm, access control, and CCTV systems are integrated to provide a converged system. If a fire alarm occurs, it will unlock the respective access control doors for emergency egress and point the cameras covering the area in question. All systems were designed such that a common reporting method can be used.

value promise

Negotiated with vendors and integrators, as well as created a design and installation guide. This reduced costly overruns and saved the client approximately \$200,000.

size 2.7 million SF

location Chattanooga, Tennessee

highlights

Request for Proposal (RFP) preparation and assistance with supplier selection

Security console to comfortably sit four operators

Fire alarm graphic annunciator connected to video wall

Fire alarm panel used to control all facility operations