

Global Aerospace Facility

Seattle, Washington • Aviation Service Center • System Integrator: Holaday-Parks, Inc.



THE CLIENT

A global aerospace company specializing in the repair and overhaul of aircraft and component parts. This facility offers the largest breadth of Maintenance, Repair and Overhaul (MRO) services of any aerospace supplier in the world.

THE CHALLENGE

The existing proprietary DDC controls were dated, failing, and poorly commissioned — driving high energy costs and inconsistent conditions across very different zones, from large hangars for painting jumbo jets to individual offices. A single network was needed to integrate the HVAC controls and the paint-area exhaust-filtration monitoring system, building on the existing campus-wide TCP/IP Ethernet network.

THE SOLUTION

The fully integrated facility automation system delivered by Holaday-Parks integrates multiple systems on a single network while maintaining an open-systems model. Paint-area exhaust-filtration monitoring is vital under stringent environmental regulations: detailed controls keep exhaust readings within limits, record every measurement, and dispatch alarms to replace filters — shutting down the ability to produce effluent if an alarm condition exists.

The largest energy savings came from controlling 310,000 CFM of conditioned air to the 56,000-square-foot aircraft-painting facility, which requires space temperatures in excess of 110°F on 100% outdoor air with rapid ramp-up, all while maintaining a negative space-pressure relationship to the rest of the facility.

HIGHLIGHTS

- Integrated HVAC and paint-booth exhaust-filtration monitoring on one network
- Conditioning of 310,000 CFM for a 56,000 sq ft aircraft paint facility
- Precise environmental control for demanding industrial zones
- Continuous emissions monitoring with automatic filter-change alarms
- Custom graphics recording filter performance and emissions
- Efficient, measurable, reduced energy usage
- Scheduling for individual areas
- Unlimited capacity for future control expansion

SYSTEMS & COMPONENTS

- Circon programmable air-handling-unit HVAC controllers
- Circon unitary HVAC controllers (roof-top)
- Circon programmable terminal-unit HVAC controllers
- Circon Visual Integrator™ software with custom graphics
- Circon terminal-unit VAV controllers
- Variable-frequency drives & IP network routers

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