

Technical Support, Remote Monitoring & Preventative Maintenance



Technical Support

A wide variety of technical support options are available to meet the needs of each customer.

- Phone Support, M-F 8 am - 6 pm EST.
- Phone Support, 24 / 7.
- Remote Access Dial-up or VPN Web Support with on-line trouble-shooting, M-F 8 am - 6 pm EST.
- Remote Access Dial-up or VPN Web Support with on-line trouble-shooting, 24 / 7.
- Emergency on-site technical support and trouble-shooting assistance.

Renewal Parts & Repairs

Liberty can provide new or refurbished parts for most products. Refurbished parts are restored to new condition, and then tested and certified in our factory. Printed circuit cards, CCR doors and other electronic components can be repaired or exchanged for a refurbished part from stock.

Life Extension Programs

Power system components including 208V to 5KV switchgear, automatic transfer systems, generators, regulators and circuit selectors can be reconditioned extending the life of the equipment for an additional 20 years. Updates to vacuum and digital technologies can be provided at the same time, at a fraction of the cost of new equipment.

Supported Products

Liberty personnel have specialized in airfield lighting power and control systems for the past 40 years. Having been involved in the original product design, manufacturing, installation and commissioning of most of the following products, we are the logical choice for your service and support needs.

- All Liberty Airport System products including ferro-resonant and thyristor constant current regulators (CCRs), circuit selectors, control and monitoring systems (ALCMS), switchgear regulator assemblies (ALSRA), prefabricated field electrical centers (ALFEC) and SMGCS systems.
- Safegate ASP Systems using powerline carrier technology for SMGCS control and monitoring including RGL, stopbars, and de-icing pad guidance.
- Westinghouse, Hughey & Phillips (H&P) and Honeywell products including the following:
 - RSS20 & RSSL constant current regulators
 - Ascent Series constant current regulators
 - L-847 circuit selectors
 - Airfield Lighting Control Center (ALCC) Switchgear cells including CSR6, NRC, DTC, TRPS
 - Airfield Lighting Power Centers (ALPC) including diesel generators, and automatic transfer systems.
 - PLC based control and monitoring systems including CMS-500 to CMS-4000 Series.
 - PLC based SMGCS, Stopbar and De-Icing Facility systems
- C-703, C-704 and L-821 relay control systems installed by various suppliers.



Test & Inspection Services

Liberty can provide annual or semi-annual on-site inspection and testing of all hardware and software to ensure correct operation within allowable specifications. This program helps the airport identify and replace components that are nearing the end of their operating life, increases the reliability and reduces maintenance and troubleshooting costs.

System review and refresher training for key maintenance personnel is included as part of the test and inspection process. A comprehensive report details the tests performed with recommendations for preventative maintenance and component replacements. Examples of tests are listed below:

- Inspection of hardware for excessive wear, loose connections, incorrect operation or physical damage.
- Testing of power systems, protective devices, batteries and backup UPS operation.
- Diagnostic testing of computers, monitors, and peripherals. Verify ability to recover from backup software. Backups are created if necessary.
- Testing of communication links and automatic switchover to backup links and recovery.
- Testing and verification of distributed control and monitoring hardware, all backup systems and failsafe operation.
- Review of system graphics and alarm and event logs to identify any potential problems.
- Verify airport has adequate spare parts and that they are in working condition. Verify that the correct versions of firmware and software are installed if applicable.
- Test and verify remote access capability for trouble-shooting via telephone line modem.
- Verify adjustments and settings on all equipment and re-calibrate settings if required.

System Upgrades

Liberty can provide hardware and software upgrades to any system, bringing technology to current standards while incorporating support for new features and capabilities. A comprehensive three year upgrade plan can be prepared upon request.



Remote System Analysis

Liberty can provide scheduled reports detailing the status and condition of the airfield lighting control system, constant current regulators and single lamp monitored fixtures.

Using the control system's remote access capability, Liberty can dial-in, gather data, analyze, tabulate, sort and compile the data into summary reports that can be sent to the airport by E-mail or fax. Recommendations can be sent to the airport identifying any current or potential problems that should be rectified.

- Weekly maintenance and operations reports sent via fax or E-mail.
- Daily maintenance and operations reports sent via fax or E-mail. Follow up on critical problems for assistance when necessary.



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