



Today's high-technology baggage handling systems incorporate extensive use of Programmable Logic Controllers (PLC) to handle the complex integration of the Explosive Detection Systems required by the TSA. Baggage sortation accuracy is a critical aspect in how the BHS meets the security requirements, while it also ensures the correct delivery to meet the tight departure schedules of multiple airlines who share the system. In addition, the PLC provides the flexibility to reconfigure the system to meet changes in the terminal such as check-in counter movement.

Any unusual circumstance, whether it is brought on by the demands of increased security, or high volumes of luggage associated with special events, can impact a system's controls. If the software within the PLC is not maintained, the result can be departure delays and expensive callouts to the original manufacturer of the equipment.

Airports managers understand the benefits in having PLC expertise on-site, yet it is can be cost prohibitive to have that resource in-house. Trained ELS technicians assist in testing the I/O of the system resulting in more accurate reporting and they also perform code enhancements to improve operational efficiency. Whether it is a power surge that knocks the BHS off-line or the planned movement of ticket counter conveyor for use by another airline, having an on-site PLC technician as part of your operation and maintenance staff will save time and money. ELS has the experience and expertise to cover all your PLC maintenance needs.

To learn more about how ELS can help your operations, contact us today.

Work performed by ELS PLC Technicians:

- **New code written for sort and destination confirmations**
- **Testing of back-up power supplies**
- **Code modifications to enable BHS upgrades**
- **Using PLC code as a diagnostic test to pinpoint problems for more efficient repair**
- **Power saving – Optimise sections of conveyor to time-out when not in use**
- **Maintain PLC log including updates to the back-up software**