



## New York LaGuardia Airport Terminal Reconfiguration Analyses



**Client Name:** Corgan Associates, Inc. / American Airlines

**Date Started:** March 2007

**Date Completed:** April 2007

American Airlines (AA) is exploring opportunities to improve their passenger terminal facilities in the Central Terminal at New York's LaGuardia Airport.

Corgan Associates, Inc., AA's architect for the project, asked TransSolutions to perform Level of Service and flow analyses to support development and evaluation of proposed terminal improvements. Analyses included the security screening checkpoints and airside corridors for Concourses C and D and a conceptual baggage screening system design.

Facilities were evaluated at both current summer and full-gate demand levels to identify the immediate benefits of the terminal improvements and to determine the ability of the improvements to accommodate long-term demand for AA and their commuter partner, American Eagle.

The security screening checkpoint study quantified lane and queuing area requirements with the goal of maintaining desired passenger Levels of Service and waiting times. For the airside corridors, passenger occupancies and Levels of Service were identified taking into account passenger flows and potential overflows from nearby facilities. For the baggage screening analysis, peak-hour baggage flows were developed for the two demand levels and used to estimate screening equipment requirements based on proposed system layouts.

Two sets of follow-on analyses were performed for the baggage screening facilities to quantify equipment requirements for different demand levels and alternative screening system layouts.