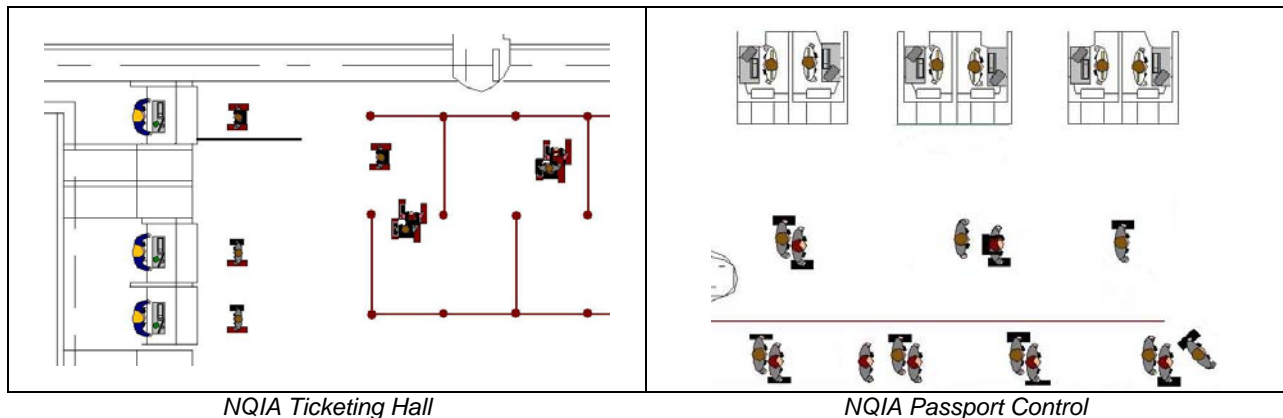




New Quito International Airport Terminal Capacity and Level of Service



Client Name: Quito Airport Consortium, Inc. / Quiport

Date Started: May 2007
January 2008

Date Completed: July 2007
April 2008

A new international airport is being planned for Quito which, upon completion, will be the largest aeronautic complex in Ecuador with an opening day capacity of 4.3 million annual passengers. The new terminal has been planned to serve both international and domestic flights and has been designed with both efficiency and flexibility in mind.

The Quito Airport Consortium, Inc. asked TransSolutions to perform simulation analyses of the proposed terminal layout to quantify the level of service (LOS) provided to passengers at the opening-day demand level. Analyses included reviewing all major passenger-processing and visitor facilities.

To meet the objectives of this effort, TransSolutions developed a discrete event simulation model of the arrivals and departures levels of the terminal. The model was designed to track individual passenger movements of originating, terminating, and in-transit passengers from the time they enter the terminal until they leave the terminal. Processes modeled include, but were not limited to: check-in, security, corridors, gate holdrooms, passport control, baggage claim and customs along with the well-wisher and greeter halls. For each area, the LOS provided to passengers along with their waiting and transiting times were quantified.

Demand was developed from an opening-day flight schedule provided by Quiport and data from the Master Planning effort and collected at the current Quito International Airport, Mariscal Sucre. TransSolutions also performed a gating analysis to ensure that the airfield parking positions could accommodate all international and domestic flight operations.

Follow on analyses in 2008 included reviewing the terminal performance for alternate demand levels, processing characteristics, and baggage delivery procedures.