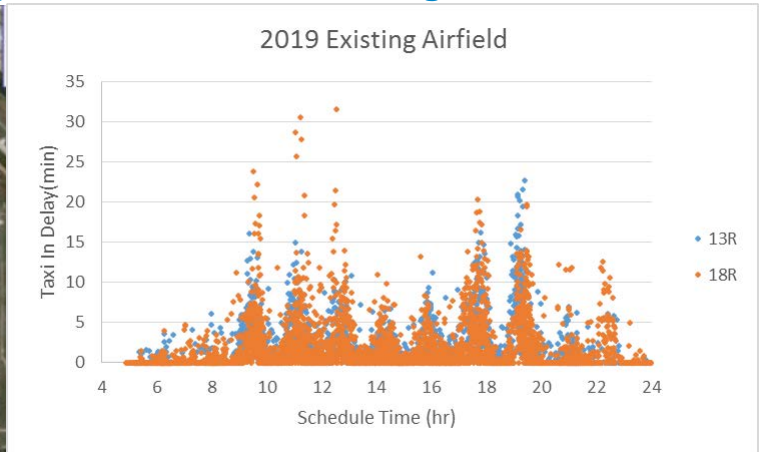


Dallas/Fort Worth International Airport AA Rebanking Analysis of Procedural Changes



Client Name: Dallas/Fort Worth International Airport
Date Started: April 2015

Date Completed: May 2015

Dallas/Fort Worth International Airport (DFW) needed to validate the prior 2015 Converging Runway Operation and AA Rebanked Schedule Airfield simulation after American Airlines had begun their rebanked schedule operations. The goal was to confirm the accuracy of the previous simulation against the actual operations being seen today. In addition, DFW wanted to simulate two potential airfield capacity enhancements. The goal was to see how removing the converging runway constraint and the addition of the southwest end-around taxiway (EAT) would improve capacity for future schedules.

To perform the analyses, TransSolutions utilized a simulation model of the DFW airfield and airspace. The model was calibrated using the current 2015 schedule. The removal of the converging runway constraint was studied. Comparisons were also made between airfield simulations with and without the addition of the southwest perimeter taxiway. Simulations were run for the year 2019 and every three years through 2028 in order to understand the impact on future operations.

Analyses determined that the removal of converging runway operations will reduce airspace delays and achieve cost savings. With the addition of the southwest perimeter taxiway, a reduction in taxi-in delays is shown by the model which would lead to greater schedule integrity especially during peaks in the flight schedule. A reduction in taxi-out times was also identified during analyses.