The FAA and NASA conducted an Operational Integration Assessment (OIA) of a prototype Terminal Sequencing and Spacing (formerly TSS, now TSAS) system at the FAA’s William J. Hughes Technical Center (WJHTC). The OIA took approximately one year to plan and execute, culminating in a formal data collection, referred to as the Run for Record, from May 12-21, 2015. This report presents quantitative and qualitative results from the Run for Record.