

Factual Report – Attachment 8

Memorandum for Record – Taxiway Arrival Prediction Testing at SEA

AIR TRAFFIC CONTROL

DCA17IA148



**National Transportation
Safety Board**

Memorandum For The Record

Date: February 28, 2018
From: Betty Koschig
Subject: Federal Aviation Administration (FAA) Testing of Taxiway Arrival Prediction (TWAP) Alert on the Airport Surface Detection Equipment- Model X (ASDE-X) at Seattle-Tacoma International Airport (SEA), Seattle, Washington

In February 2018, tests were conducted at SEA to determine if the ASDE systems could detect and predict taxiway landings, while keeping the number of nuisance or false alerts negligible. The FAA invited the NTSB investigative team to SEA to observe and discuss the results of the tests.

The ASDE-X (type of equipment used at SEA for the tests) was configured to apply the same parameters used to detect and predict a landing to a closed runway, to the taxiway scenarios.

The FAA flight check airplane flew several approaches on the 4 different taxiway landing scenarios. There were no false alerts for any of the approaches or scenarios. They found that the ASDE-X detected and predicted the potential lander, then alerted when the flight came within 20 seconds and 3000 feet of a potential landing (as per the design).

Submitted by:

Betty Koschig
Senior Air Safety Investigator