

Surface Safety Portfolio

Approach Runway Verification

Background

A safe and efficient National Airspace System (NAS) begins and ends on the airport surface. Separation services air traffic controllers (ATC) provide to flights in the sky are also paramount on runways, taxiways, and other airport surface movement areas. Giving ATC the tools necessary to improve their situational awareness on the surface is key for the future of surface safety.

Preventing Wrong-Surface and Airport Operations

The Approach Runway Verification (ARV) will provide ATC both visual and audible alerts if an aircraft on arrival is lined up with the wrong surface.

This airport is protected by the following ARV capabilities.

1. Wrong runway
2. Closed runway
3. Taxiway
4. Wrong airport

Each airport environment can be modified such that these alerts trigger based on the uniqueness of their surface configuration and airport arrival routes.

Summation

The FAA is dedicated to continually evaluating and improving upon safety. With ARV, ATC will have another tool in their toolbox to enhance their surface situational awareness. ARV is not the final and only endeavor the FAA is pursuing to address such a critical operational need. ARV, along with the Surface Awareness Initiative and the Runway Incursion Device, are a few examples of the FAA's commitment to always advancing the safety of the NAS.

