

**Automatic Dependent Surveillance Broadcast System for DPS Aircraft**      **FY2021 Request: \$0**  
**Reference No: AMD 62919**

**AP/AL:** Appropriation      **Project Type:** Information Technology / Systems / Communication

**Category:** Public Protection

**Location:** Statewide

**House District:** Statewide (HD 1-40)

**Impact House District:** Statewide (HD 1-40)

**Contact:** Elizabeth Dunayski

**Estimated Project Dates:** 06/30/2020 - 06/30/2024      **Contact Phone:** (907)465-5501

**Brief Summary and Statement of Need:**

Automatic Dependent Surveillance Broadcast (ADS-B) technology is a Federal mandate from the Federal Aviation Administration (FAA). Aircraft operating in certain areas must comply with this mandate by January 1, 2020 in airspace where transponders are mandatory today. This technology broadcasts GPS positions to ground stations and directly to equipped aircraft. The Department has identified aircraft without ADS-B technology that have an immediate need to travel in and out of designated airspace, including the Caravan, Cessna 206, Cessna 182, and Robinson R-44 helicopter fleet, and must be upgraded in FY2020.

<b>Funding:</b>	<b>FY2020</b>	<b>FY2021</b>	<b>FY2022</b>	<b>FY2023</b>	<b>FY2024</b>	<b>FY2025</b>	<b>Total</b>
1004 Gen Fund	\$398,400						\$398,400
<b>Total:</b>	<b>\$398,400</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$398,400</b>

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input checked="" type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

**Operating & Maintenance Costs:**

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
<b>Totals:</b>	<b>0</b>	<b>0</b>

**Prior Funding History / Additional Information:**

The project replaces the Automatic Dependent Surveillance Broadcast System for DPS Aircraft submitted as part of the Governor's Supplemental Budget Request.

**Project Description/Justification:**

Automatic Dependent Surveillance Broadcast (ADS-B) technology is a federal mandate from the Federal Aviation Administration (FAA). Aircraft operating in certain areas must comply with this mandate by January 1, 2020 in airspace where transponders are mandatory today. This technology broadcasts GPS positions to ground stations and directly to equipped aircraft.

The final rule from the FAA dictates that effective January 1, 2020, aircraft operating in airspace defined in Federal Aviation Regulation (FAR) 91.225 (Class A, B, C, and E) are required to have an ADS-B system that includes a certified position source capable of meeting requirements defined in FAR 91.227. These regulations set a minimum performance standard for both ADS-B transmitters and the position sources integrated with the ADS-B equipment in Department of Public Safety (DPS) aircraft.

Where ADS-B is required in Alaska:

Ted Stevens International Airport - Class C airspace  
Airspace above 18,000 feet - Class A airspace

The DPS Aircraft Section hangar and maintenance operations (as well as the locations of multiple vendors currently under contract for maintenance work on DPS aircraft) is located on Lake Hood, which is adjacent and under Ted Stevens Anchorage International Airport class C airspace.

Currently only six of the DPS aircraft are equipped with ADS-B technology, leaving nearly 40 aircraft that will need to be brought into compliance.