

**Ted Stevens Anchorage International Airport - Aircraft Fire Fighting Training Facility**      **FY2014 Request: \$2,800,000**  
**Reference No: 56935**

**AP/AL:** Allocation      **Project Type:** Construction  
**Category:** Transportation  
**Location:** Anchorage Areawide      **House District:** Anchorage Areawide (HD 11-27)  
**Impact House District:** Anchorage Areawide (HD 11-27)      **Contact:** Steven Hatter  
**Estimated Project Dates:** 07/01/2013 - 06/30/2020      **Contact Phone:** (907)269-0730  
**Appropriation:** Airport Improvement Program

**Brief Summary and Statement of Need:**

Replace the current fire training pit to comply with AC 150/5220-17B, meet environmental standards and improve safety. This will include removal of existing apparatus and failed containment, and installation of a propane-fueled training simulator.

<b>Funding:</b>	<b>FY2014</b>	<b>FY2015</b>	<b>FY2016</b>	<b>FY2017</b>	<b>FY2018</b>	<b>FY2019</b>	<b>Total</b>
Fed Rcpts	\$2,625,000						\$2,625,000
Int Airprt	\$175,000						\$175,000
<b>Total:</b>	<b>\$2,800,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,800,000</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"/> On-Going
0% = Minimum State Match % Required		<input 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:**

No prior funding history

**Project Description/Justification:**

The current fire training facility was installed in mid-1990's and is an earthen, double lined facility. It has a smaller "treatment" pond downstream of it. The primary liner on the treatment pond has started to fail in places. Repairs have been attempted over the last few years without success. The fire pit liner is covered to protect it from the training fires and cannot be inspected without damaging the integrity of the system.

The liners are not rated for use in a fire pit, so there is no actual recommended life span for them. In general, the liners should last approximately 10 to 15 years without a failure. The liners are coming up on a 20-year life span. If the liners fail, the site will not be allowed to be used until fixed. We are currently monitoring the liners with monitoring wells. This is not the ideal way to monitor the effectiveness of the system as it may be a few years until a leak is detected, at which time the area would be considered a contaminated site. As a new contaminated site, it would require investigation and remediation of the leak. This is could also stop the use of the fire pit with little or no lead-time to prepare for other options.

The current design does not meet current environmental regulations on discharge of fluids from the facility. In addition, the current design does not allow for transfer of fluids between upper and lower ponds in springtime, normal fire training season or allow for the use of the fuel transfer piping currently installed. This is due to the system being frozen with no way to thaw it. When the fuel piping system can be used, it leaks fuel outside of the lined pit.

**As a medium hub airport, the Aircraft Fire Fighting (ARFF) personnel are required to have annual certification with live fire training.**

Option 1: Upgraded Open Pit, Liquid Fuel ARFF Pit - Open pit design that uses liquid petroleum fuel for burning. Upgraded pit designs and treatment options to meet regulatory requirements. Install emergency foam or other system for safety purposes. Estimated life is 15 years based on liner material.

Option 2: Install a Propane ARFF Training Simulator - Propane simulator has greater safety controls, less environmental requirements and more realistic training ability than Option 1.

Option 3: Off Site Training - Use a regional training facility in-state and/or out-of-state to train all personnel.