Ted Stevens Anchorage International Airport - Runway 7R Concrete Spall Repairs

FY2014 Request: **$2,000,000**
Reference No: **56936**

AP/AL: Allocation
Category: Transportation
Location: Anchorage Areawide
Impact House District: Anchorage Areawide (HD 11-27)
Estimated Project Dates: 07/01/2013 - 06/30/2018
Appropriation: Airport Improvement Program

Project Type: Construction
House District: Anchorage Areawide (HD 11-27)
Contact: Steven Hatter
Contact Phone: (907)269-0730

Brief Summary and Statement of Need:
Repair spalled concrete at edges of concrete panels on R/W 7R. Repair will consist of saw-cutting and chipping out damaged edges and repairing with a combination of epoxy and cement mortars. After concrete repair, the adjacent joint sealant damaged from the spalling and repair activity will be reinstalled. Total length of edge repair and joint seal replacement is approximately 6,000 feet.

Funding:	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Int Airprt	$2,000,000						$2,000,000
Total:	$2,000,000	$0	$0	$0	$0	$0	$2,000,000

☐ State Match Required ☑ One-Time Project ☐ Phased - new ☐ Phased - underway ☐ On-Going
0% = Minimum State Match % Required ☐ Amendment ☐ Mental Health Bill

Operating & Maintenance Costs:

	Amount	Staff
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information:

No prior funding history

Project Description/Justification:
The justification for this project is not a simple cost/benefit analysis as benefits are primarily qualitative. R/W 7R concrete was installed in 2011. Since then there has been significant spalling of concrete at the panel edges. A concrete expert tested and evaluated the possible cause, but found conclusive enough to place responsibility on the construction contractor.

The need to repair the spalled concrete is driven by the need to have intact, functioning, joint seals between the concrete panels. The seals in the areas of the spalled concrete cannot be reinstalled to be effective without repairing the concrete. Without effective seals, water will accumulate between the concrete panels and in the gravel immediately below the panel, potentially cause damage directly to the concrete and heaving of the concrete panels when that water freezes. That water itself also will potentially weaken the soil below the concrete.