Ted Stevens Anchorage International Airport: North Terminal Gates N1, 3, and 5

FY2010 Request: **$681,250**
Reference No: **47801**

AP/AL: Allocation
Project Type: Construction
Category: Transportation
Location: Anchorage Areawide
Contact: Christine Klein
House District: Anchorage Areawide (HD 17-32)
Contact Phone: (907)269-0724
Estimated Project Dates: 07/01/2009 - 06/30/2014
Appropriation: Airport Improvement Program

Brief Summary and Statement of Need:
Reconstruct the deteriorated gate apron pavement and taxiway pavement, including all associated lighting, hydrant system, jet bridge foundations, drainage, pavement, subgrade preparation, etc. Expand the portland cement area at the gate to provide better support for ground service equipment during aircraft servicing. This project is needed to avoid continued high maintenance costs and potential damage to aircraft from Foreign Object Debris (FOD). This project contributes to the Department's Mission by reducing injuries, fatalities and property damage and by improving the mobility of people and goods.

Funding:	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	Total
IntAptCons	$681,250						$681,250
Total:	$681,250	$0	$0	$0	$0	$0	$681,250

☐ 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

Additional Information / Prior Funding History:
None.

Project Description/Justification:
Remove all existing concrete pavement and asphalt pavement and necessary subgrade soils. Replace with structural fill and new concrete and asphalt pavement, rehabilitate the storm drainage system, replace the lighting, re-pave and re-stripe the aprons. Expand the portland cement area to provide better support for ground service equipment during aircraft servicing.

The Federal Aviation Administration (FAA) requires that airports have a Pavement Management System (AC 150/5380-7) that facilitates identification of expected pavement needs. Ted Stevens Anchorage International Airport's (ANC's) Pavement Management System identifies pavement condition as a function of the Pavement Condition Index (PCI). The PCI is established through a survey and subsequent software analysis of asphalt and concrete pavement condition. The PCI is a metric value of 0-100, with 100 being the optimum pavement condition. The pavement condition surveys analyze cracks, spalling, rutting, and other pavement conditions that become part of the 0-100 metric. Poor pavement conditions result in FOD on aprons, runways and taxiways and are safety concerns for aircraft moving on the airfield. A 70 PCI is an indication that a project should be

programmed in the short term to rehabilitate a runway. A PCI condition below 60 is an indication that a project should be programmed in the short term to rehabilitate taxiways and aprons and existing paved airfield surfaces.

North Terminal Gates 1, 3, and 5 have a Pavement Condition Index (PCI) value below 50 which is less than the desired minimum required under the Pavement Maintenance and Management Plan. The aprons are cracking, deteriorating, and fail to meet minimum Pavement Condition Index requirements. Existing pavement cracks will grow and expand, leading to pavement failures within the apron surface. This involves potential damage to aircraft and surface transportation vehicles from cracks, ruts, FOD and other impediments.