Anchorage International Airport: Deicing Assessment and Design | **FY2001 Request: $500,000** | **Reference No: 32493**

AP/AL: Allocation
Project Type: Planning
Category: Transportation
Location: Anchorage Areawide
Contact: Kurt Parkan
House District: Anchorage Areawide (HD 10-26)
Contact Phone: (907)465-3900
Estimated Project Dates: 07/01/2000 - 06/30/2004
Appropriation: Airport Improvement Program

Brief Summary and Statement of Need:
This project funds deicing problem characterization and chemical control solutions developed under the direction of the ANC/Airline Deicing Task Force (DTF). Project includes development and design of deicing facility(s) determined by the DTF as effective for future implementation.

Funding:	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	Total
Int Airprt	$500,000						$500,000
Total:	$500,000	$0	$0	$0	$0	$0	$500,000

☐ 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

Additional Information / Prior Funding History:

Project Description/Justification:
This project funds deicing problem characterization and chemical control solutions developed under the direction of the ANC/Airline Deicing Task Force (DTF). Review and evaluate technical data on airport and aircraft deicing chemical impacts for phasing in future effective operational measures, which will minimize environmental damage. Assess deicing chemicals, geographical source use and movements, mass balance hydraulic data, fate and transport of chemical, and water quality characterization. Technical evaluation of DTF selected practices, pilot bench testing of proposed collection & treatment measures, full-scale feasibility and cost analysis, and responses to regulatory imposed total maximum daily load allocations (TMDL) for the airport. Project includes development and design of deicing facility(s) determined by the DTF as effective for future implementation. Includes phased implementation of operational measures such as sampling, monitoring, drain plugs, trench design, vacuuming, and treatment if required.

PROJECT JUSTIFICATION:

The airport is required to meet water quality standards under the Federal Clean Water Act. It presently cannot meet the requirements under present deicing operations. Deicers from airport surface water runoff flows to Lake Hood and Spenard causing classification as "impaired" on the Environmental Protection Agency's (EPA) Section 305(b) impaired waterbodies list. A total maximum daily load allocation (TMDL), water quality assessment, and deicing effluent limit review is presently underway on this airport by the EPA. The airport will be required to implement deicing control measures to prevent pollution and meet permit limits. In preparation of impending regulatory restrictions and existing community concerns, the DTF is developing solutions to address the complex deicing chemical runoff problems.