Statewide: Air Quality Mobile Source Modeling

FY2012 Request:	**$1,200,000**
Reference No:	**AMD 51865**

AP/AL: Allocation
Category: Transportation
Location: Statewide
Impact House District: Unidentified House District
Estimated Project Dates: 07/01/2011 - 06/30/2018
Appropriation: Surface Transportation Program

Project Type: Research / Studies / Planning

House District: Statewide (HD 1-40)
Contact: Pat Kemp
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Brief Summary and Statement of Need:
This is a new capital request because of a STIP amendment that occurred after the December 15 release of the Governor's FY2012 budget. This project will develop a statewide framework for Motor Vehicle Emissions Simulator (MOVES) modeling in Alaska that ensures consistent development, application, and approval of modeling workflows (e.g., input data collection and processing, model setup and execution requirements, post-processing of outputs, etc.) in all regional mobile source inventory applications envisioned within the state.

Funding:	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	Total
Fed Rcpts	$1,200,000						$1,200,000
Total:	$1,200,000	$0	$0	$0	$0	$0	$1,200,000

☑ State Match Required	☐ One-Time Project	☐ Phased - new	☐ Phased - underway	☑ On-Going
9% = 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:
These regional applications include State Implementation Plan (SIP) emissions/emission budgets and transportation conformity emission inventories, NEI (National Emission Inventory) submittals to EPA that consist of both planning and episodic modeling inventories, throughout the state.

In developing and implementing this centralized approach, the project will define appropriate workflows for each type of regional application that address the following:

• The availability and types of data needed (e.g., DMV registrations);
• The level of pre-processing required to generate model-ready inputs;
• Appropriateness of MOVES default data (e.g., fuel formulations) for Alaska;
• EPA guidance-based model execution protocols (e.g., hourly time spans for SIPs);
• Mechanisms for validating model outputs; and
• Use and applicability of Alaska-specific output post-processing adjustments.

Project will provide the state with a system for ensuring consistent emission estimates to be

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generated for transportation sources allowing appropriate analysis of transportation control measure effectiveness as well as conformity determinations for transportation projects and programs.