

**Fort Richardson - Bryant Airfield Solar Energy Collection System Design**      **FY2012 Request: \$250,000**  
**Reference No: 51402**

**AP/AL:** Allocation      **Project Type:** Energy  
**Category:** Public Protection  
**Location:** Fort Richardson      **House District:** Military (HD 18)  
**Impact House District:** Anchorage Areawide (HD 17-32)      **Contact:** McHugh Pierre  
**Estimated Project Dates:** 07/01/2011 - 06/30/2016      **Contact Phone:** (907)428-6003  
**Appropriation:** Federal Energy Projects

**Brief Summary and Statement of Need:**

In order to receive federal funds, the Alaska Army National Guard is tasked with reducing energy consumption at its facilities. Federal Executive Orders 13423 and 13514 prescribe the requirement for utilizing energy from renewable sources. This funding request is to produce design, bid-ready construction document packages for the installation of solar energy collection systems.

<b>Funding:</b>	<b>FY2012</b>	<b>FY2013</b>	<b>FY2014</b>	<b>FY2015</b>	<b>FY2016</b>	<b>FY2017</b>	<b>Total</b>
Fed Rcpts	\$250,000						\$250,000
<b>Total:</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$250,000</b>

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input checked="" 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>

**Additional Information / Prior Funding History:**

**Project Description/Justification:**

Federal funding authority is requested for energy upgrades for Bryant Air Field hangers on Fort Richardson. This request fulfills the federal requirement for utilizing energy from renewable sources and works to reduce deferred maintenance and operational costs.

This project designs and provides bid-ready construction documents for a solar energy collection system to serve Bryant Air Field hangars. This will reduce the amount of system heat needed by gas fired heating equipment; water instead will receive thermal energy from modular evacuated tube collectors. The solar energy system is comprised of heat collection panels, heat distribution equipment, automatic controls, pumps and piping. The renewable heat will be distributed via Heating, Ventilating, and Air Conditioning (HVAC) systems. Priorities and cost estimates may need to be changed to accommodate emergency maintenance projects not listed, actual project costs, and other considerations.