

Agency: Commerce, Community and Economic Development

Grants to Named Recipients (AS 37.05.316)

Grant Recipient: Alaska Aviation Heritage Museum

Federal Tax ID: 92-0071852

Project Title:

Project Type: Maintenance, Renovation and Repairs

Alaska Aviation Heritage Museum - Major Facility Safety, Energy and Collections Care Improvements

State Funding Requested: \$500,950

House District: 26 / M

Future Funding May Be Requested

Brief Project Description:

Planning, design and installation of insulation and energy efficient heating and electrical systems for several museum complex buildings. Renovations and upgrades to enhance fire safety in exhibit galleries and collections storage.

Funding Plan:

Total Cost of Project: \$500,950

	<u>Funding Secured</u>		<u>Other Pending Requests</u>		<u>Anticipated Future Need</u>	
	<i>Amount</i>	<i>FY</i>	<i>Amount</i>	<i>FY</i>	<i>Amount</i>	<i>FY</i>
Federal Funds			\$775,000	2009		
Rasmuson Foundation			\$25,000	2009		
Other Funds	\$6,000	2008	\$520,000	2009		
Total	\$6,000		\$1,320,000			

Explanation of Other Funds:

Other Funds: A grant request of \$520,000 was made to BP for the development and implementation of a comprehensive education program for the aviation museum. A \$6000 grant was awarded from the Alaska Humanities Foundation to initiate the digital transition of a few moving images currently held in the Museum's collection.

Detailed Project Description and Justification:

The continuing mission of the Alaska Aviation Museum is to preserve, honor and exhibit Alaska's aviation heritage in order to educate and inspire current and future generations.

Energy Efficiency: As the aviation museum continues to expand its program offerings the Board of Directors and the Staff strive to streamline the operating costs for the organization. Currently the utilities expense accounts for 20% of the operating budget excluding payroll. The museum complex includes a building that dates back to 1953 (the earliest hangar in the Lake Hood complex) and that hangar has the highest natural gas consumption rate per square foot of any building within the complex. Converting the roof from a hot surface to cold design will also improve the safety around the building. Currently large ice sheets form from the snow melting/freezing on the roof and then the sheets slide off the roof, impact the ground then fall back on the building shattering the windows along the South wall. The model and exhibit workshop building was acquired two years ago with the addition of a lease lot just North of the Museum's main building. This 520 square foot building has electric baseboard heating installed and it currently has the same kilowatt consumption rate as the twin 3750 square foot buildings. The thermostat is set at just above freezing to prevent the glues and finishes from being ruined before use in exhibit construction. This energy aspect of the overall project goal is to update the heating systems with current technology and reduce the energy loss with added (and replaced) insulation and sealing.

Electrical Efficiency: In 1992 when two of the hangars were built they were used as storage buildings for the aircraft and artifact collection at the Museum. The lighting installed was standard mercury lamps arranged in a grid on the ceiling of the facility. At the time there was insufficient information available about the destructive nature of the UV generated by these light fixtures and the long term effects on museum artifacts. During the last two years the museum staff has transformed the hangars into exhibit galleries and completely overhauled of the exhibits and arrangement of aircraft within the buildings. This overhaul necessitates the redesign of the lighting within the galleries making it exhibit specific and less harmful to artifacts. By utilizing alternative energy sources, wind and solar and changing the light fixtures to CFL and LED, the goal is to reduce the electrical grid requirement in the exhibit hangars by 75%.

Fire Safety: With years of sub-slab frost activity the South wall of southern has settled causing the double-door exit system to be physically blocked by the entry walkway outside of the building. The doors can be opened during the Summer but not in the Winter. The high pressure fire suppression system currently installed in the archives and collections storage area requires additional hoses to prevent lapses in coverage while the primary hoses are taken off-site for integrity and capacity inspections.

Collections Protection: The bulk of the images collection within the museum is currently in a fragile film media and needs to be digitized and stored within a climate controlled environment. There is currently a 20-year backlog of collections cataloging that requires resources to alleviate. The overall goal is to make the collection accessible to the public via the Internet through a database and virtual exhibits. The software is already on-site, the manpower to affect the task is not.

Project Timeline:

The heating energy efficiency improvements are ready for immediate work while the electrical and lighting projects will require some planning and design time with installation work in late Spring, early Summer 2010. The fire safety and collections protection projects are ready for immediate implementation.

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

Alaska Aviation Heritage Museum

Grant Recipient Contact Information:

Name: Normand C. Lagasse
 Address: 4721 Aircraft Drive
 Anchorage, AK 99502
 Phone Number: (907)248-3207
 Email: director@alaskaairmuseum.org

Has this project been through a public review process at the local level and is it a community priority? Yes No

For use by Co-chair Staff Only:

4:20 PM 4/29/2009



State of Alaska Capital Grant Request



Capital Projects

Alaska Aviation Museum

Spring 2009



Overview

- ◆ Museum Mission
- ◆ Centennial of Powered Flight in Alaska
- ◆ Capital Projects
- ◆ People-Places-Things
- ◆ State Museum Cooperative Projects

Preserving Yesterday's Legends to Inspire Tomorrow's Legend Makers



AAHM Mission

- ◆ Preserve and display historic aircraft, aviation artifacts, and memorabilia - particularly those that contributed to the development and progress of aviation in Alaska
- ◆ Foster citizen interest in aviation careers and awareness of aviation history
- ◆ Establish alliances with educational institutions at all levels
- ◆ Honor the pioneers of Alaskan aviation



Centennial of Flight

- ◆ Powered Flight in Alaska: July 3,4,5-2013
- ◆ Resolution currently submitted by Rep Foster: HJR 9



Capital Projects

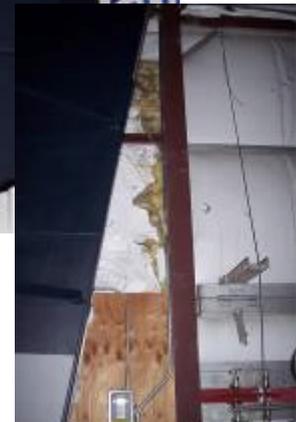
- ◆ Energy Improvements

- ◆ Safety Improvements



Heating Energy Conservation

- ◆ Door systems: All hangars (except Restoration Facility)
- ◆ Insulation: Twin & Restoration Hangars





Heating Energy Efficiency

- ◆ Update Unit Heaters and thermostats (Pre-1992)
- ◆ Update Boiler (pre-1991) & Radiator Units(pre-1970) in Restoration Hangar





Heating Energy Efficiency

- ◆ Convert Model & Exhibit Workshop from electric to gas heat (520 sq ft)
- ◆ Same electrical usage as twin hangars (7500 sq ft combined)





Lighting Energy Conservation

- ◆ Convert lighting within galleries (hangars) to CFL, LED & spot fixtures
- ◆ Install integrated Wind & Solar electrical generation system to supplement grid electrical supply
- ◆ Goal is to reduce current grid consumption by 75%



Safety Improvements





Archives & Collections

- ◆ Update Fire Suppression system with inspect-able hoses for High Pressure Inergen tanks in Archives room
- ◆ Install environmental monitoring system
- ◆ Digitize Archives for public use
- ◆ Catalog collection for public use



Current Board

- ◆ Chair - Gail Phillips * - Former Alaska Speaker of the House
- ◆ Vice President – Don Rogers*, MD retired
- ◆ Treasurer – Mark Bendersky*, GCI
- ◆ Secretary – Janice Reeve Ogle
- ◆ Richard Wilson* - Ted Stevens Anchorage International Airport
- ◆ Susan Bramstedt – Alaska Airlines
- ◆ Gideon Garcia – Holland America Lines/Grayline Alaska
- ◆ David W. Karp – Northern Air Cargo
- ◆ Don Keil - FAA retired
- ◆ Denis LeBlanc** -CH2M Hill
- ◆ Bill Odom - Odom Corp.
- ◆ Chuck Pohland – CPA
- ◆ Orin Seybert* - PenAir
- ◆ Richard N. Sutliff - Attorney
- ◆ William Woodland ** - Snow White Linen

*Executive Committee

** Newest Board Members



Current Trustees

- ◆ Richard Benner
- ◆ Rex Bishopp
- ◆ Rep Mike Hawker
- ◆ Chris Phillips, BP
- ◆ William Sharrow, BG (Ret.)



Core Staff in Place

- ◆ Executive Director: [Norm Lagasse](#)
- ◆ Director of Marketing & Development:
[Shari Hart](#)
- ◆ Curator – [position currently open](#)
- ◆ Administration, Admissions & Museum Store: [Emilie Saunders](#)



Successes



Visitor Increase



Volunteer Core Expansion



Facility Improvements



Exhibits Overhaul



Major Facility Improvements



Thank You





Major Exhibit Overhaul

- ◆ Major upgrades to all three exhibit hangars
- ◆ Theater upgrades including Alaska Airlines 1st class seats





Recent Grants

- ◆ Rasmuson Foundation \$641K
- ◆ M.J. Murdock Charitable Trust \$235K
- ◆ State of Alaska
 - 2005 \$250K
 - 2006 \$750K
 - 2008 \$125K
- ◆ PenAir \$50K, \$100K
- ◆ Alaska Airlines Foundation \$25K, \$10K, \$15K
- ◆ Coca Cola Foundation \$15K/yr
- ◆ Alaska State Museum Grant in Aid \$10K, \$10K
- ◆ Alaska Humanities Forum \$6K, \$6K
- ◆ Museum's Alaska Art Acquisitions Fund \$1.5K, \$7.5K, \$10K, \$3.5K
- ◆ Northern Air Cargo \$5K



Major Artifact Donations

- ◆ Don Keil: Taylorcraft L-2
- ◆ Alaska Airlines: B-737-200
- ◆ Jim Rearden: Avid Flyer
- ◆ Willis Family: Jack Carr Taylorcraft BC-12D
- ◆ USAF: F-15A
- ◆ Northern Air Cargo: DC-6
- ◆ Major Winfield McIntyre's uniforms
- ◆ Jack Carr Wolf Parka
- ◆ Lt John Andrew's Uniform & Personal Effects

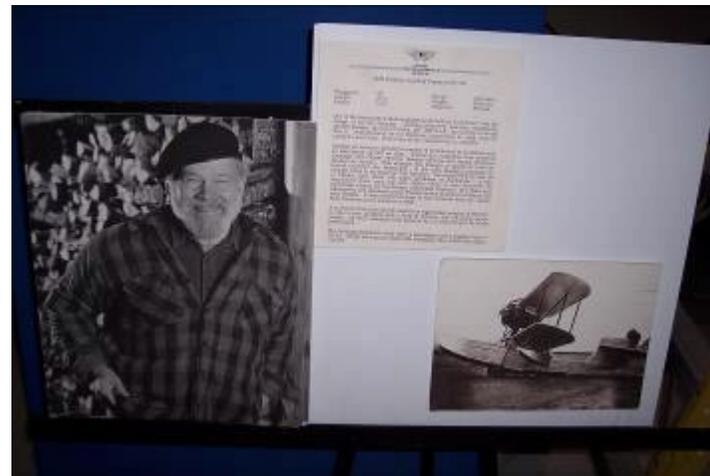


State Museum Cooperative Projects

In Preparation for Centennial of First Flight in Alaska:



Loening Keystone
Commuter



Douglas World Cruiser: [Seattle](#)





Path Forward to AAHM Vision

- ◆ Enthusiastic Board & Trustee Development: **Done**
- ◆ Establish an Endowment: **Done**
- ◆ Increase Contributed Income: working

