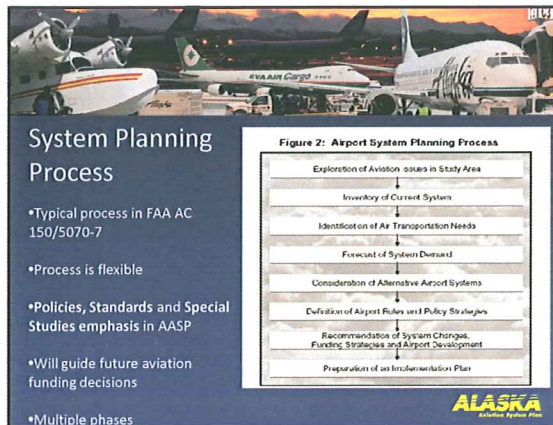




Alaska Aviation System Plan Update

Aviation Advisory Board
10/14-15/09

ALASKA
Aviation System Plan



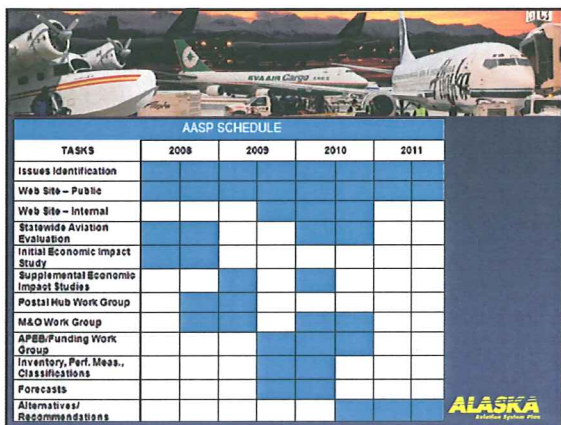
System Planning Process

- Typical process in FAA AC 150/5070-7
- Process is flexible
- Policies, Standards and Special Studies emphasis in AASP
- Will guide future aviation funding decisions
- Multiple phases

Figure 2: Airport System Planning Process

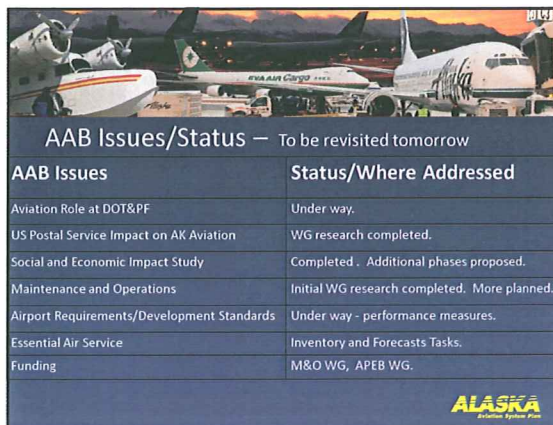
1. Exploration of Aviation issues in Study Area
2. Inventory of Current System
3. Identification of Air Transportation Needs
4. Forecast of System Demand
5. Consideration of Alternative Airport Systems
6. Definition of Airport Rules and Policy Strategies
7. Recommendation of System Changes, Funding Strategies and Airport Development
8. Preparation of an Interim/Action Plan

ALASKA
Aviation System Plan



AASP SCHEDULE				
TASKS	2008	2009	2010	2011
Issues Identification				
Web Site – Public				
Web Site – Internal				
Statewide Aviation Evaluation				
Initial Economic Impact Study				
Supplemental Economic Impact Studies				
Postal Hub Work Group				
M&O Work Group				
APFB/Funding Work Group				
Inventory, Perf. Meas., Classifications				
Forecasts				
Alternatives/Recommendations				

ALASKA
Aviation System Plan



AAB Issues/Status – To be revisited tomorrow

AAB Issues	Status/Where Addressed
Aviation Role at DOT&PF	Under way.
US Postal Service Impact on AK Aviation	WG research completed.
Social and Economic Impact Study	Completed. Additional phases proposed.
Maintenance and Operations	Initial WG research completed. More planned.
Airport Requirements/Development Standards	Under way - performance measures.
Essential Air Service	Inventory and Forecasts Tasks.
Funding	M&O WG, APEB WG.

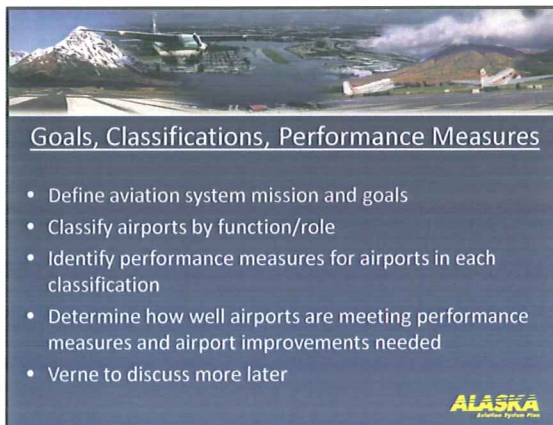
ALASKA
Aviation System Plan



Inventory

- Electronic searchable database of airport, seaplane base, and heliport information
- FAA database used for airports registered with FAA
- More extensive inventory for 288 facilities - over 100 additional data categories
- Includes non-DOT&PF airports
- Data collection 60% completed. Database to be presented to DOT&PF in January.
- Database to be used to measure system performance.

ALASKA
Aviation System Plan



Goals, Classifications, Performance Measures


- Define aviation system mission and goals
- Classify airports by function/role
- Identify performance measures for airports in each classification
- Determine how well airports are meeting performance measures and airport improvements needed
- Verne to discuss more later

ALASKA
Aviation System Plan





Forecasts

- Forecasts for 2015, 2020, 2030
- All AK NPIAS airports and up to 50 additional
- Surveys of carriers, medevac operators, military
- Building off any existing valid Master Plan or regional forecasts
- More detailed forecasts for 50 busiest airports
- Fleet mix emphasis

Runway Length Study

- Case studies of Egegik, Eek, Kongiganak, Koyukuk, Quinhagak, Perryville, Sand Point runway extensions
- Changes to enplanements, cargo, and mail before and after an extension
- Changes to costs of travel and shipping; volumes of fish flown


Runway Extensions; Key Findings


- Extensions resulted in more passenger travel, larger aircraft, and reduced shipping costs
- Extended runways do not automatically lead to exporting fish by air
- Hub airports generate most benefits from runway extensions




Runway Extensions Reduce Air Shipping Costs


- Shipping costs to Eek dropped by 46 percent when the new runway allowed larger aircraft to make fewer trips.

	Payload (in pounds)	Hourly operating cost	Per pound shipping cost ²	Delivery cost estimate (based on one hour of travel)	
				5,000 pounds	100,000 pounds
Cessna 207	1,000	\$525	\$ 52	\$3,900	\$78,000
CASA 212	8,000	\$2,100	\$ 42	\$2,100	\$42,000
Difference (\$)				\$1,800	\$36,000
Difference (%)				-46%	-46%

Other Economic Studies Coming Up

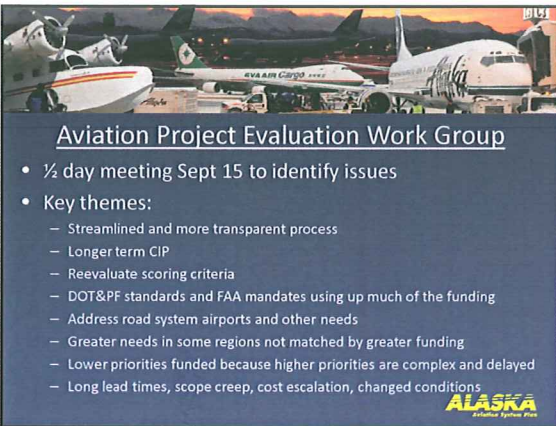
- Airport –specific economic studies
 - Fairbanks, Juneau, Bethel, Wasilla, Prudhoe Bay, Haines, Iliamna, Hooper Bay, Kotzebue, and Bethel area village
- Video documentary of role of aviation in rural AK
- AK/Lower 48 Airport Capital and Operating Cost Comparisons




Alaska Aviation System Plan Update

Aviation Advisory Board
10/15/09

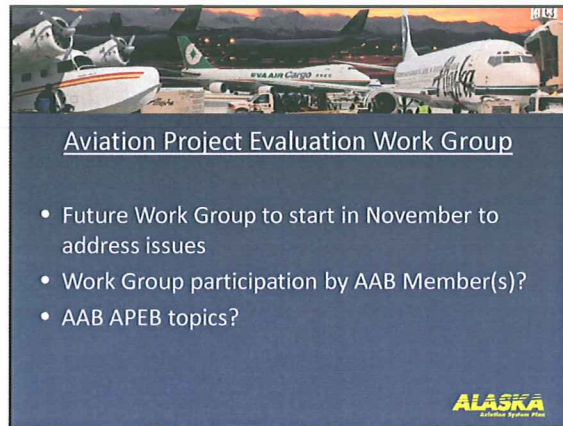




Aviation Project Evaluation Work Group

- ½ day meeting Sept 15 to identify issues
- Key themes:
 - Streamlined and more transparent process
 - Longer term CIP
 - Reevaluate scoring criteria
 - DOT&PF standards and FAA mandates using up much of the funding
 - Address road system airports and other needs
 - Greater needs in some regions not matched by greater funding
 - Lower priorities funded because higher priorities are complex and delayed
 - Long lead times, scope creep, cost escalation, changed conditions

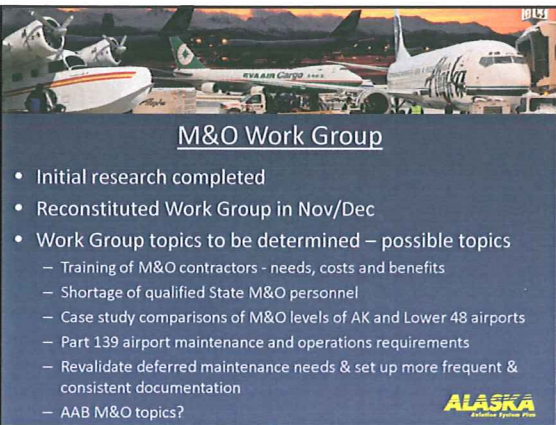
ALASKA
Aviation System Plan



Aviation Project Evaluation Work Group

- Future Work Group to start in November to address issues
- Work Group participation by AAB Member(s)?
- AAB APEB topics?

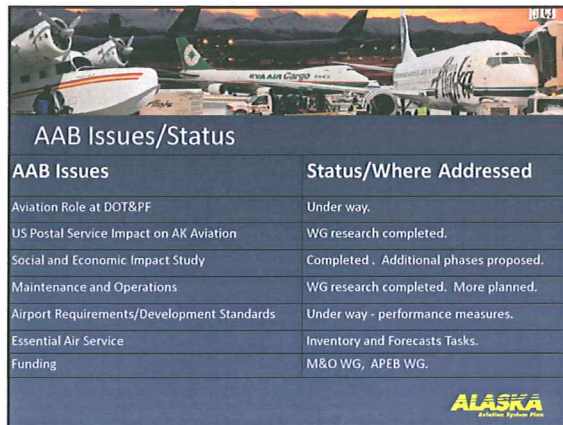
ALASKA
Aviation System Plan



M&O Work Group

- Initial research completed
- Reconstituted Work Group in Nov/Dec
- Work Group topics to be determined – possible topics
 - Training of M&O contractors - needs, costs and benefits
 - Shortage of qualified State M&O personnel
 - Case study comparisons of M&O levels of AK and Lower 48 airports
 - Part 139 airport maintenance and operations requirements
 - Revalidate deferred maintenance needs & set up more frequent & consistent documentation
 - AAB M&O topics?

ALASKA
Aviation System Plan



AAB Issues/Status

AAB Issues	Status/Where Addressed
Aviation Role at DOT&PF	Under way.
US Postal Service Impact on AK Aviation	WG research completed.
Social and Economic Impact Study	Completed. Additional phases proposed.
Maintenance and Operations	WG research completed. More planned.
Airport Requirements/Development Standards	Under way - performance measures.
Essential Air Service	Inventory and Forecasts Tasks.
Funding	M&O WG, APEB WG.

ALASKA
Aviation System Plan