

Surveillance and Broadcast Services

Alaska Industry Council

By: FAA, WSA

Date: August 13, 2008



Federal Aviation
Administration



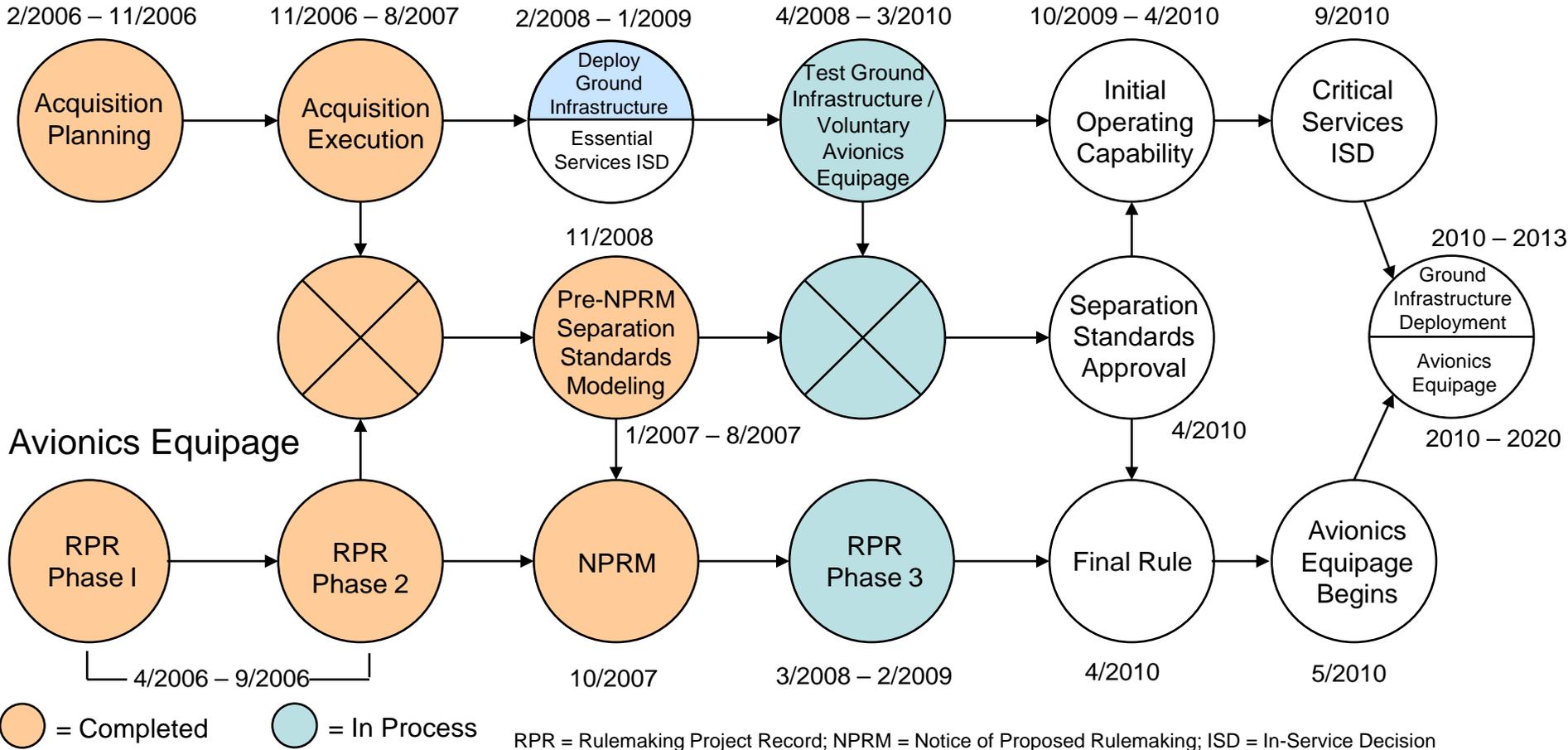
AGENDA

- Opening Remarks – Wes Mooty
- Technical Update/Implementation – Wes Mooty
- SE Avionics Maintenance Cost - Jim Wright
- Navigation Services Update – JoAnn Ford
- AIC Update – Stacy Portlock
- Round Table



Dual Track Strategy

Ground Infrastructure



SBS Technical Update – GBT Sites

- GBT Service Delivery
 - FIS-B Availability
 - Site Summit – Available now
 - Murphy Dome – Available now
 - Kotzebue – Available now
 - Reindeer Hill – Available by EOM
 - TIS-B Availability
 - Site Summit – Available now
 - Murphy Dome – Anticipate availability by EOFY
 - Reindeer Hill – Anticipate availability by EOFY

Automated Weather Observation Systems (AWOS) Updates

- **Upcoming Commissioning Activities**
 - Kiana – 20 Aug
 - Chevak – 22 Aug
 - Teller – 27 Aug
 - Walles – 29 Aug
 - False Pass – 9 Sep
 - Galena – 16 Sep
 - Shungnak – 23 Sep
 - Barter Island – 30 Sep



Juneau Wide Area Multilateration (WAM)

Milestone	Projected Completion Date
Lease Modifications	August 2008
Site Preparations	August 2008
Site Installation	September 2008
MEARTS Modification	October 2008
Site Acceptance Test (SAT)	December 2008
Separation Standards Approval	May 2009
Initial Operating Capability	June 2009



SE Avionics Maintenance Costs (Garmin)

Garmin									
Part	# Failures	2007	All Garmin aircraft			\$ ea	\$ total		
GNS480	5					\$1,000.00	\$5,000.00		
MX20	0					\$900.00	\$0.00		
GSL71	0					\$450.00	\$0.00		
GPS ant	2					\$395.00	\$790.00		
UAT ant	0					\$760.00	\$0.00		
GDL90	0					\$950.00	\$0.00		
GTX33	1					\$700.00	\$700.00		
GTX330	0					\$650.00	\$0.00		
txpr ant	0					\$250.00	\$0.00		
alt enc	2					\$242.00	\$484.00	new	
						Total	\$6,974.00		
						Total/Yr/Aircraft	\$99.63	Total \$ / 70 aircraft	



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AIR TRAFFIC ORGANIZATION

Capstone Industry Council Meeting - GNSS Update

JoAnn Y. Ford

Navigation Systems Engineering

August 13, 2008

Navigation Services Update Profile: effective July 31, 2008

- NAS Published LPVs
 - Alaska LPVs
- Alaska WAAS Availability
 - April – June 2008
- Status of:
 - WAAS Equipage
 - Cold Bay WAAS Ground Reference Station Potential Relocation
 - WAAS Predictive NOTAMs

LPV Procedure Publication Progress to Date (Current and all prior years)

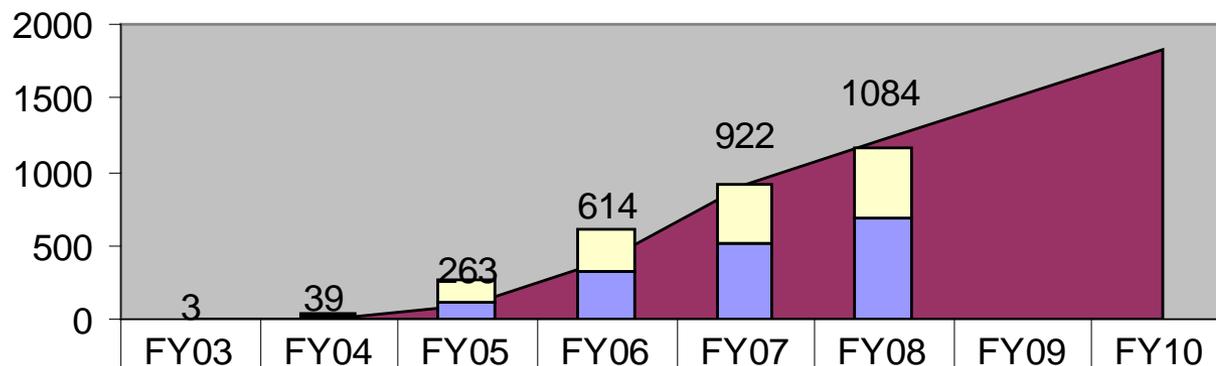
LPVs Published to non-ILS Runways	680
LPVs Published to ILS Runways	<u>481</u>
Cumulative LPVs Published to Date	1161

LPVs Published to <250' Decision Altitude 16

Next Terminal Procedure Publication: Sept 25th

FY08 LPV Production Status

Cumulative Procedures



■ FLIGHT PLAN CUM GOAL	0	0	100	400	914	1222	1522	1822
■ NON-ILS RWY ENDS	1	10	106	328	516	680		
■ ILS RWY ENDS	2	29	157	286	406	481		

Annual Production Totals

	FY03	FY04	FY05	FY06	FY07	FY08	FY08 Goal
Non-ILS Runway Ends	1	9	95	222	188	164	
ILS Runway Ends	2	27	126	129	120	75	
Total LPV per year	3	36	221	351	308	239	300 (Flight Plan)

Alaska LPV approaches

- Total 20 - Current LPV approaches (as of July 31st)
 - **Anchorage 3, Homer 2, Emmonak 2, St. Michaels 1, St. Mary's 2, Yakutat 1, Deadhorse 2 (NA UFN), Kenai 2, Selawik 1, Cold Bay (1), Gulkana (2), Ruby (1)**
- “Planned” (Tentative) LPV approaches as of July 31st 2008
 - Sept 25, 2008
 - Galena
 - Huslia
 - King Salmon
 - Ketchikan
 - Prospect Creek

“Planned” (Tentative) LPV approaches as of July 31, 2008

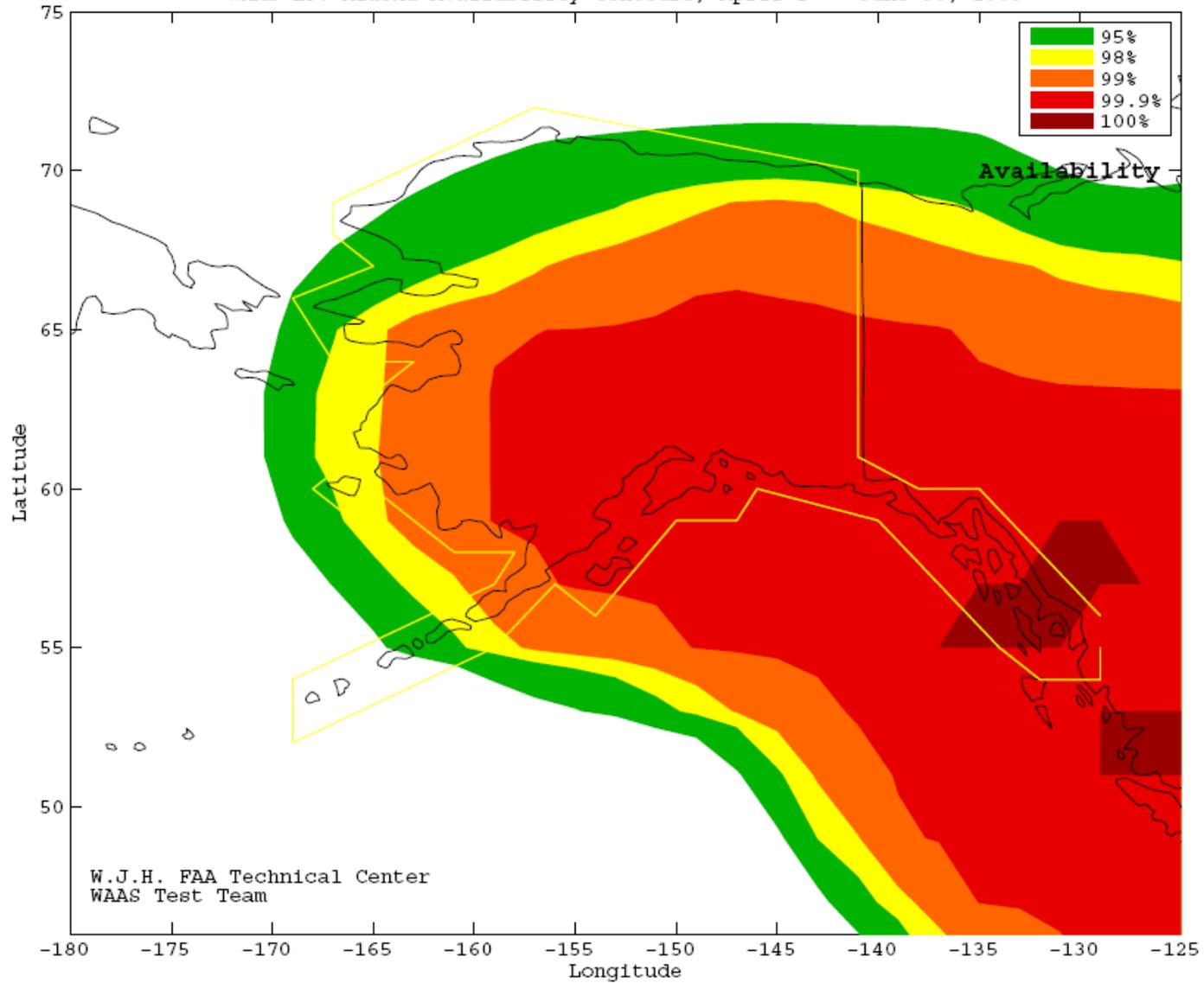
- November 2008
 - Bethel
 - Haines
 - Napakiak
 - Prospect Creek
 - Shageluk
 - Nikolski
 - Kobuk
 - Toksook Bay

“Planned” (Tentative) LPV approaches as of July 31st, 2008

- 2009
 - Quinhagak

Alaska Coverage April – June 2008

WAAS LPV Alaska Availability Contours, April 1 - June 30, 2008



W.J.H. FAA Technical Center
WAAS Test Team

Alaska Coverage at 95% Availability = 93.48%
Alaska Coverage at 99% Availability = 68.48%
Alaska Coverage at 100% Availability = 5.435%

SL = LPV

WAAS Equipage (list not all-inclusive)

- GARMIN + Universal: Approx 35,247 (previous 33,665) WAAS-capable (TSO-145 or TSO-146) (number does not include SAAAR and/or ongoing R&D)
- Part 25:
 - Cessna 560XL, Cessna 650
 - Falcon-50 (F-50), Falcon-20 (F-20), Falcon 2000
 - Lear 35A, Lear 60 (LR-60)
 - ATR-72 (Canadian)
 - B727 (Canadian), B737-200
 - Challenger-601 (CL-601)
 - King Air (R-12)
- Part 29:
 - Sikorsky S-76++ (SK-76), Agusta 109 (A-109), Bell 412
- Alaska equipage – Alaska Airlines, Horizon, PennAir, Northern Air Cargo, ConocoPhillips

Additional Alaska Updates

- Status of:
 - Cold Bay WAAS Ground Reference Station Potential Relocation
 - WAAS Predictive NOTAMs
 - Other

AIC Update

- **AIC continues to meet bi-weekly**
- **Coordinate, State, Federal and FAA interests**
 - Loan Applications and requirements available online, State of Alaska Division of Investments web site:
<http://www.commerce.state.ak.us/investments/capstone.cfml>
 - 2 Loan applications currently in progress
- **Next Steps**
 - Outreach Committee to put together avionics equipage informational package and conduct mailing to owners/operators
 - Informational letter about loan to be mailed to avionics installers
 - Avionics Outreach Team to go on the road with informational package for pilots/owners/operators by August
 - UAA and Jim Wright to provide support to Outreach and Avionics Teams