

Surveillance and Broadcast Services

Alaska Industry Council

By: FAA, WSA

Date: January 9, 2008



Federal Aviation
Administration



AGENDA

- Opening Remarks - Jere Hayslett
- Chelton Update - Dean Boston, Chelton
- AIC Update - Karen Casanovas
- Technical Update - Wes Mooty
- Navigation Services Update – JoAnn Ford
- Group Discussion



Opening Remarks

- **Letter to Governor Palin**
- **Acting Administrator Bobby Sturgell's Confirmation Hearing**
 - The Senate Commerce Committee postponed Bobby Sturgell's confirmation hearing on Dec. 19 without setting a new date (DAILY, Dec. 20, 2007). A spokeswoman then said the hearing will be rescheduled "as early as possible" in the new year. Sturgell has been acting administrator since Marion Blakey stepped down last September.
- **Status of FY08 SBS Funding**
- **Status of Galena and Barter Island**

Chelton Update

Dean Boston



AIC Update

- **AIC continues to meet bi-weekly**
- **Site Implementation Team**
- **Avionics Equipage Team**
- **External Coordination Team**
- **Coordinate, State, Federal and FAA interests**



SBS Technical Update

SBS/Segment I (FY 07-10)

- Wide Area Multilateration (WAM)
 - Site selections have been finalized
 - 15 total sites proposed
 - 13 sites to be installed FY08
 - Contract Proposal under review
- **Service Volume 6 (ANC-FAI), 11 (OME), and 13 (OTZ)**
 - Engineering started for 5 GBT's
 - Anchorage - Complete
 - Fairbanks – 95% Complete
 - Kotzebue – 50% Complete
 - Curry – Location being finalized
 - Nome – Green Site, survey in spring 08

SBS Technical Update

Current AWOS Projects

Teller, Walles, Chevak, Kiana, Shungnak

- Status:
 - All plant work and electronics have been installed.
 - Electronics' are on in test mode to test new sensor performance over the winter.
 - Shungank and Kiana still need telecommunications
 - The NCP is expected to be complete in May/08.
 - The plan is to JAI these sites in August/08.

Navigation Services Update

JoAnn Y Ford

ATO-W Navigation Services;
Navigation Systems
Engineering

Update Briefing to the Alaska
Aviation Industry Council

Jan 9, 2008



Federal Aviation
Administration



Navigation Services Update Profile

- **Current NAS LPV Totals**
- **Update of Alaska WAAS Availability**
- **WAAS equipage in Alaska**
- **Request from Northern Air Cargo for Q routes**
- **Status - 4 remaining Alaska airports w/ “WAAS VNAV Unavailable”**
- **Update on ATO-W Navigation Services’ Alaska LPV / LP initiatives**

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

LPVs Published to non-ILS Runways 569

LPVs Published to ILS Runways 426

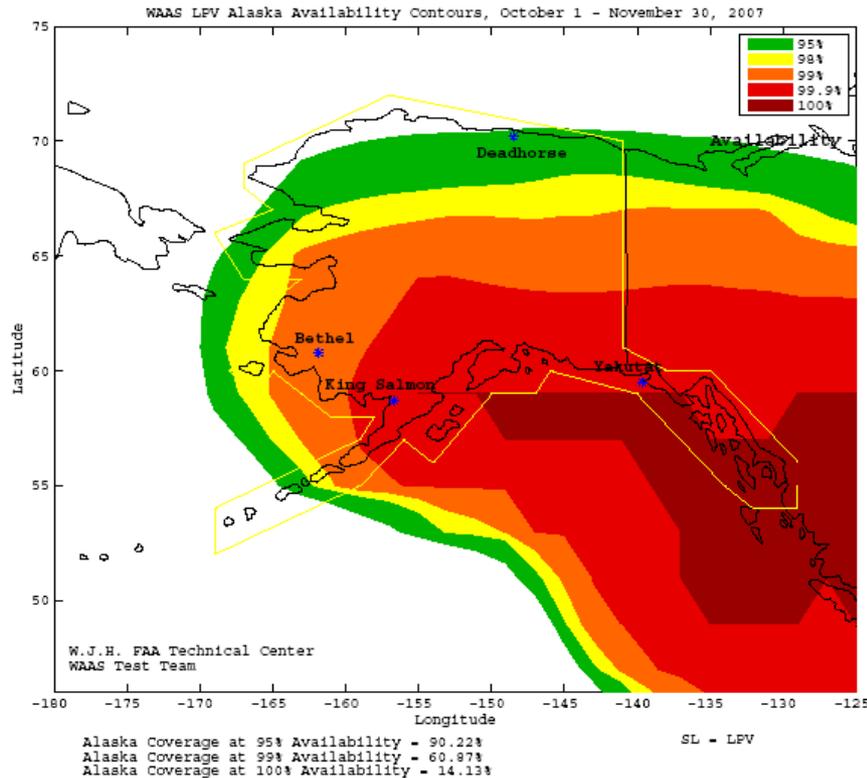
Cumulative LPVs Published to Date 995

(current Alaska published LPV approaches: Anchorage, Homer, Emmonak, St. Michaels)

LPVs Published to <250' Decision Altitude 13

(Above data is based upon December 20, 2007 publishing date; next publishing date is February 14, 2008)

Actual – Oct 1 – Nov 30, 2007 WAAS LPV Coverage in Alaska (60 day analysis)



WAAS Equipage in Alaska

- **Former Capstone Program, PennAir, Northern Air Cargo, ConocoPhillips (not inclusive-list)**
- **New Developments: WAAS Avionics Manufacturers (not all-inclusive list)**
 - L-3: March 2007 introduced “Smart-Deck” which includes WAAS capability
 - Avidyne received approval last fall for S/W upgrade to its Entegra Primary Flight Display & EX5000 MFD to include WAAS capabilities for Cirrus and Columbia a/c
 - CMC Electronics signed MOA w/ FAA last year for installation/certification of WAAS avionics for FAA’s Bombardier Global 5000 a/c
 - Emteq providing design & engineering support services for WAAS GPS systems
 - Honeywell July 2007 developing MFD for GA incorporating GPS and WAAS capabilities (certify late 2008?)



WAAS Equipage in Alaska (cont.)

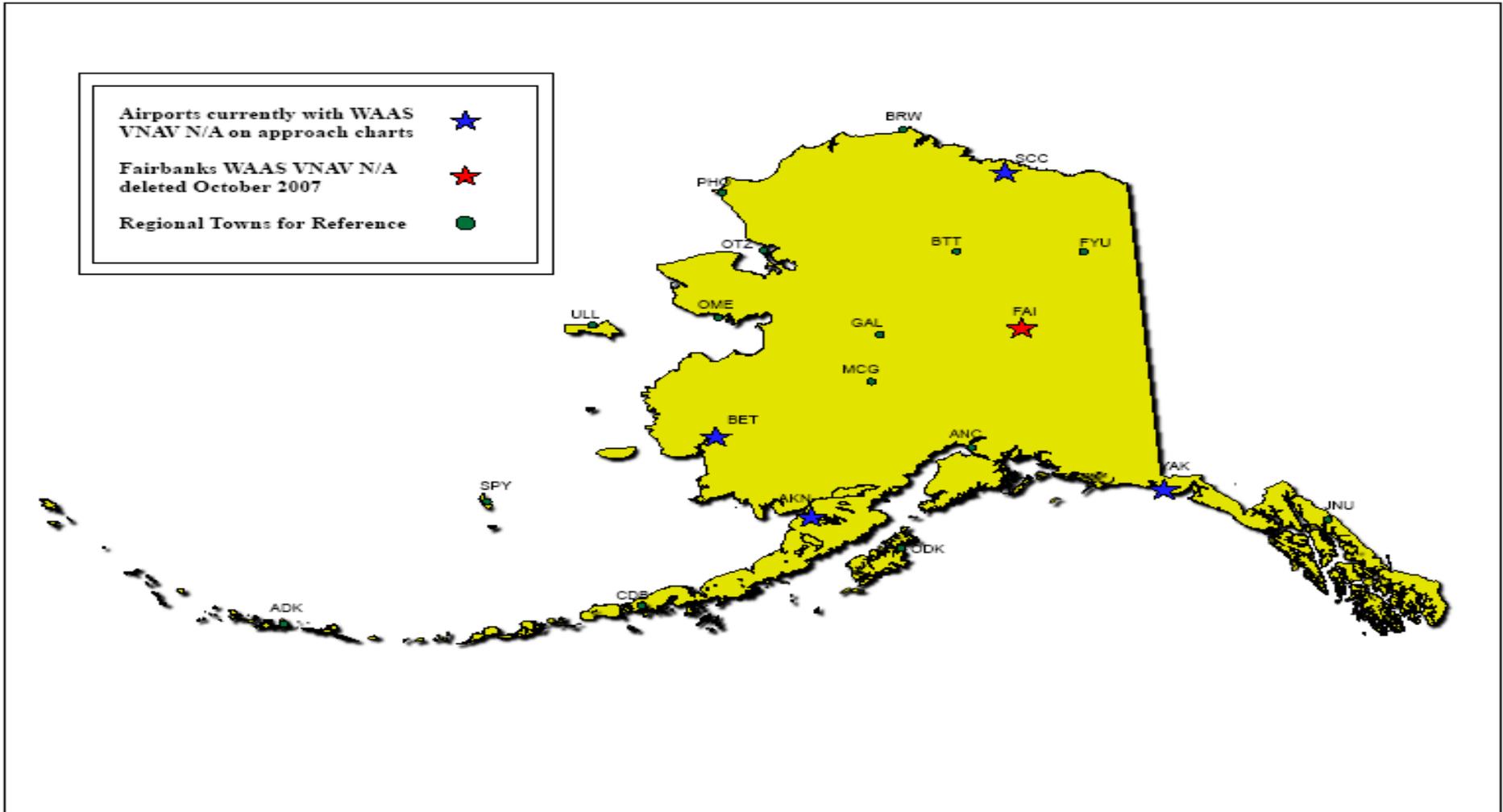
- In the international arena, Raytheon Nov 2007 completed final system acceptance testing to augment standard GPS signals with WAAS-like, i.e. “GAGAN”, GAGAN-TDS, over India. (GAGAN is based upon WAAS architecture)
- Rockwell Collins March 2007 introduced its new flight deck, ProLine Fusion, to provide improvements in operability and efficiency for business aviation customers, thru advanced FMS w/ WAAS/LPV capability; in 2006, WAAS-capable GPS-4000S was installed in FAA’s flight inspection a/c in 2007.
- Spectralux introduced “NexNav” GNSS WAAS Class beta-3 sensor; selected by Eclipse Aviation for the Eclipse 500 (to use w/ L-3 Avionics Systems for SmartDeck.)



Northern Air Cargo WAAS Initiatives

- **WAAS Equipage and request for production of LPV approaches**
- **Q route requests**
 - Q12 from OTZ to SCC
 - Q14 from ADQ to JOH
 - Q6 from TKA to BRW
 - Q12 would relieve NAC having to file OTZ to SCC via BRW, trimming 101 miles.
 - Q14 would facilitate future ADQ-BLI charters by allowing us to bypass ANC enroute to BLI. Trims 82 miles to JOH
 - Q6 would allow more direct routings to BRW rather than filing via FAI. Trims 35 miles.

Current 4 WAAS VNAV N/A



Update: ATO-W Navigation Services Alaska WAAS LPV/LP Initiatives

- **ATO-W Navigation Services FAA 2008 and 2009 Flight Plan Goal**
 - To develop a minimum of 5 Alaska RNAV approaches with LPV lines of minima in 2008
 - Currently 30 Alaska airports on LPV production list
 - MOU (to develop these Alaska LPV procedures) between Navigation Services and OKC Procedure Development Office (AVN) was signed December 2007
 - Funding for Alaska LPV Procedure development was sent from Navigation Services to OKC Procedure Office DEC 2007
 - To develop a minimum of 5 Alaska RNAV approaches with LPV/LP lines of minima in 2009 – currently drafting 2009 MOU
- **Status - LP approach criteria**
 - OKC (AVN) Procedure development office: 6-9 months prep for publishing LP approaches