

Surveillance and Broadcast Services

Alaska Industry Council

By: FAA, WSA

Date: April 9, 2008



Federal Aviation
Administration



AGENDA

- Opening Remarks – Wes Mooty
- Technical Update/Implementation – Wes Mooty
- Operational Brief – Jim Hill
- AIC Update – Tom George
- Navigation Services Update – JoAnn Ford
- Flight Standards Safety Initiatives in Alaska – David Karalunas
- Round Table



Opening Remarks

- Introductions
- WAM Program Management Review



SBS Technical Update – GBT Sites

- **Service Volume 6 (ANC-FAI) and 13 (OTZ) for FY08**
 - **Engineering started for 4 GBT's**
 - Anchorage - Complete
 - Fairbanks – 95% Complete
 - Reindeer Hill – 25% Complete
 - Kotzebue – 50% Complete
- **Service Volume 11 (OME) and 13 (OTZ) for FY09**
 - **Site Selection for 7 GBTs**
 - Newton Peak – SV11
 - Moses Point – SV11
 - Shishmaref – SV11
 - Savoonga – SV11
 - Point Hope – SV13
 - Kivalina – SV13
 - Selawik – SV13

SBS Technical Update – AWOS Sites

- **Commissioning in FY08**
 - Teller
 - Walles
 - Chevak
 - Kiana
 - Shungnak
- **Installing in FY08 - FY09**
 - Brevig Mission
 - White Mountain
 - Shaktoolik
 - Noorvik
 - Galena
 - Barter Island
- **Installing in FY09**
 - Elim



SBS Technical Update – WAM/RCO

- **Juneau Wide Area Multilateration (WAM)**
 - System Architecture completed
 - Site selections finalized – In CWP
 - Site Engineering and Design – 50%
 - Contract Proposal in process
- **Communications (RCO) Projects**
 - **Installation FY08 – FY09**
 - Brevig Mission
 - White Mountain
 - **Installation FY09 – FY10**
 - Larsen Bay



SBS Operational Update

- **5 Airport Procedures – 9/08**
 - Shaktoolik
 - Kasigluk
 - Napakiak
 - Quinhagak
 - Kwethluk
- **Performance Based Navigation**
 - Teleconference 3/31/08
- **ADS-B Surveillance Expansion**



AIC Update

- **AIC continues to meet bi-weekly**
- **Coordinate, State, Federal and FAA interests**
 - Update on SB No. 249 (Governor's Loan Program)
 - Report on avionics funding
 - ACMAC meeting update
 - AEA presentation
 - Airmen's presentations
- **Next Steps**
 - Recommendation to Division of Investments
 - Brief at Airmen's Convention and Trade Show



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AIR TRAFFIC ORGANIZATION

Capstone Industry Council Meeting - GNSS Update

JoAnn Y. Ford

Navigation Systems Engineering

April 9, 2008

Navigation Services Update Profile

- Current NAS LPV Totals
- Update of Alaska WAAS Availability
 - Satellite Lease Status
- WAAS Predictive NOTAMs
- WAAS equipage in NAS/Alaska
- Cold Bay – WAAS Ground Reference Station (GRS)
- Public Comment for Study on DFs in Alaska Closed March 31, 2008

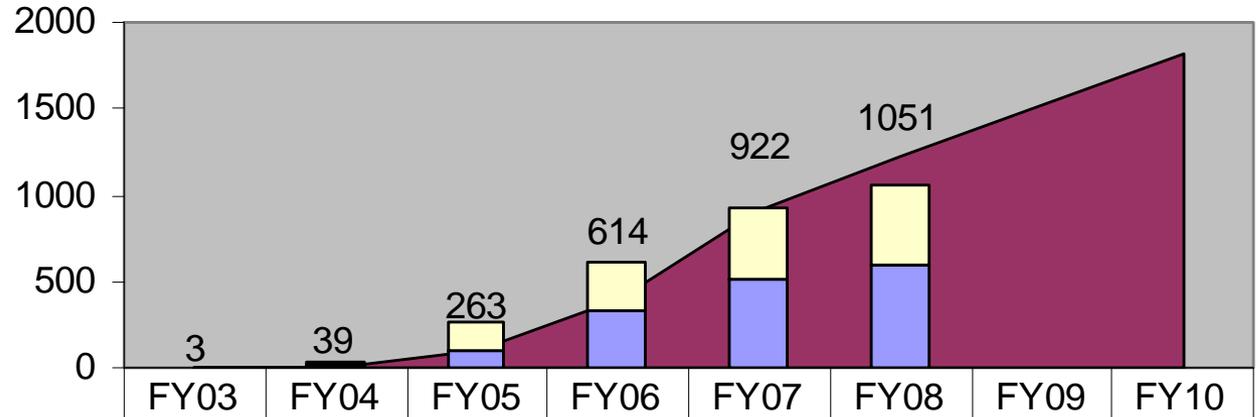
LPV Procedure Publication Progress to Date (Current and all prior years)

LPVs Published to non-ILS Runways	602
LPVs Published to ILS Runways	<u>449</u>
Cumulative LPVs Published to Date	1051

LPVs Published to <250' Decision Altitude 14

FY08 LPV Production Status

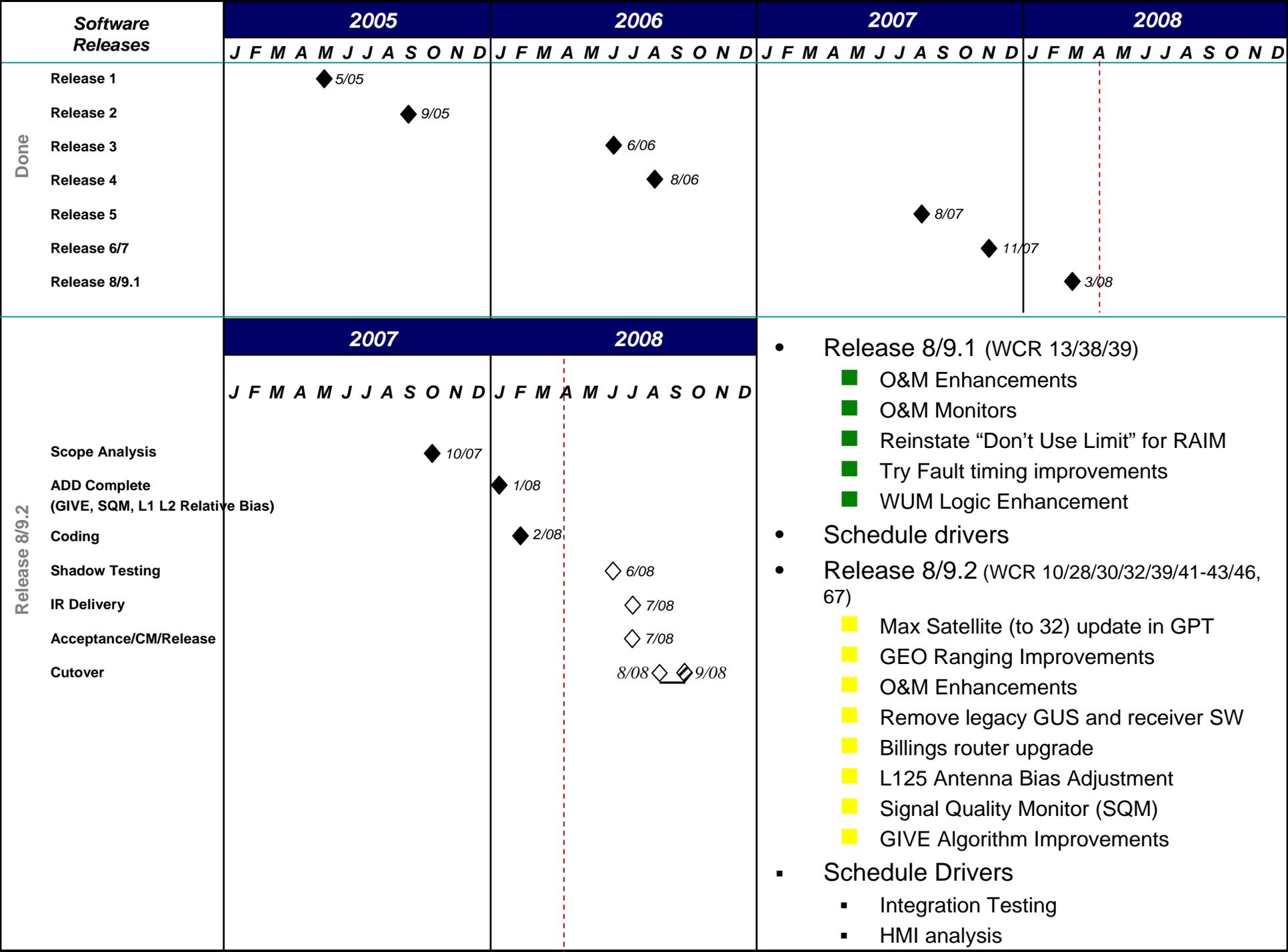
Cumulative Procedures



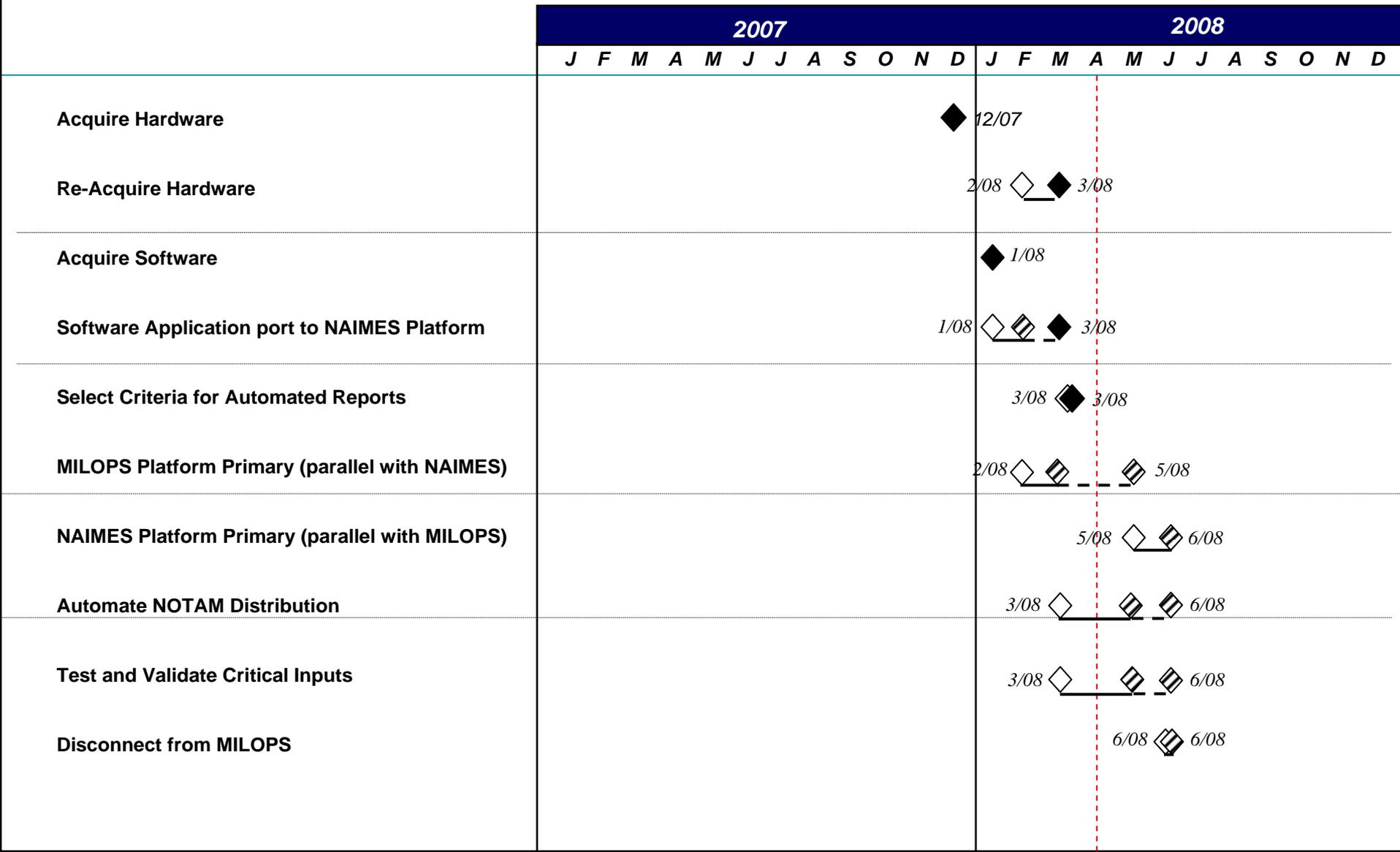
	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
FLIGHT PLAN CUM GOAL	0	0	100	400	914	1222	1522	1822
NON-ILS RWY ENDS	1	10	106	328	516	602		
ILS RWY ENDS	2	29	157	286	406	449		

Annual Production Totals

	FY03	FY04	FY05	FY06	FY07	FY08	FY08 Goal
Non-ILS Runway Ends	1	9	95	222	188	90	
ILS Runway Ends	2	27	126	129	120	39	
Total LPV per year	3	36	221	351	308	129	300 (Flight Plan)



WAAS Predictive NOTAMS System Re-host



WAAS Equipage

- Approx 30,715 WAAS-capable (TSO-145 or TSO-146) (number does not include SAAAR and/or ongoing R&D)
 - GARMIN: +2,000 each month
 - GNS 480, GNS430W/530W, GNS 430/530Upgrades, G1000
 - UNIVERSAL
 - “First Air” B737-200 Uses Universal Avionics' WAAS-FMS (dual [UNS-1Fw](#) FMSs) for LPV Approach in Waterloo Intl Arpt, Ontario, Canada
 - Made possible by installation of WAAS GRS @Goosebay, Gander, Winnipeg, and Iqaluit
 - UNS-1Fw FMS system is installed on the airline's entire fleet of 737s, 727s and ATRs
 - UNS-1Fw FMS is certified for Part 23 and Part 25 aircraft and meets FAA TSO-C146b Gamma-3 and DO229D certification criteria
- Alaska equipage – majority is primarily discretionary information at this point in time

Cold Bay WAAS Ground Reference Station

- Cold Bay Flight Service Station is relocating; new station unable to support WAAS GRS
- WAAS Program Office conducting studies for new location
- Must consider ionosphere conditions, comm, power supply, user/operational needs
- Flexible deadline date
- Systems will run in parallel prior to cutover; no operational impact

DF Study in Alaska

- Previous NAS DF study required revisit Alaska DF status in 2008
- Public Comment deadline was March 31, 2008
 - Only 5 comments had been received by approx March 25, 2008
- Congressional interest
- Study to commence asap; approx 6 months to complete study
- Does not imply that DFs will definitely be decommissioned; “study”
- Monthly Alaska Regional Air Traffic Procedure Team (RAPT) will track progress monthly