

PBN Update



**Optimization of Airspace & Procedures
in the Metroplex (OAPM)**

Performance Based Navigation (PBN) Non-OAPM

Third Party Vendor Development of PBN Procedures

NAVLean Implementation Status



FAA



Federal Aviation
Administration

Next**GEN**

OAPM



FAA



Federal Aviation
Administration

OAPM FY 12 & FY 13 Milestones Summary

and Dashboard Status a/o July 30, 2012

No.	FY 12 Milestone	Date
1	So. California Study Report Complete	Dec 2011
2	Houston Design Kickoff	Jan 2012
3	DC Design Phase Complete	Mar 2012
4	No. California Design Phase Kickoff	Mar 2012
5	No. Texas Design Phase Complete	Apr 2012
6	DC Evaluation Phase Start	Apr 2012
7	No. Texas Evaluation Phase Start	May 2012
8	So. Florida Study Phase Kickoff	May 2012
9	Houston Design Phase Complete	Jul 2012

No.	FY 13 Milestone	Date
1	Charlotte Design Phase Complete	Nov 2012
2	Atlanta Design Phase Complete	Nov 2012
3	No. California Design Phase Complete	Dec 2012
4	Houston Evaluation Phase Complete	Jan 2013
5	Houston Implementation Kickoff	Jan 2013
6	DC Evaluation Phase Complete	Jun 2013
7	No. Texas Evaluation Phase Complete	Jun 2013

Complete

May Be Missed

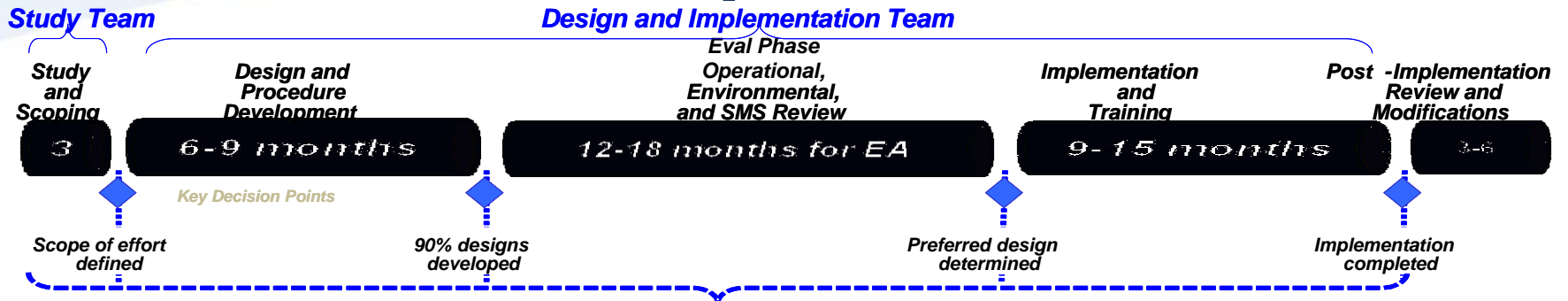
On Track

Missed

Site	Study Start	Study End	Design Start	Design End	Evaluation				Implementation Start	Implementation End	Post-Implementation Initiation
					Environmental Start	Environmental End	SMS Start	SMS End			
DC	9/9/2010	11/12/2010	6/11/2011	3/1/2012	4/6/2012	6/28/2013	9/29/2012	3/29/2013	7/1/2013	6/30/2014	9/30/2014
North Texas	9/1/2010	12/16/2010	7/1/2011	4/1/2012	5/4/2012	6/28/2013	9/1/2012	4/30/2013	7/1/2013	6/30/2014	9/30/2014
Charlotte	2/3/2011	5/13/2011	2/13/2012	11/16/2012	4/19/2012	2/19/2014	4/22/2013	11/18/2013	2/28/2014	2/27/2015	5/29/2015
Northern California	2/10/2011	5/20/2011	3/19/2012	12/21/2012	4/17/2012	3/31/2014	5/13/2013	12/13/2013	3/31/2014	3/31/2015	6/30/2015
Houston	5/10/2011	8/19/2011	1/9/2012	7/6/2012	2/14/2012	1/12/2013	10/1/2012	12/31/2012	1/13/2013	12/28/2013	3/31/2014
Atlanta	8/3/2011	12/1/2011	2/27/2012	11/30/2012	4/19/2012	10/18/2013	4/1/2013	10/1/2013	12/12/2013	12/12/2014	3/31/2015
Southern California	8/11/2011	12/1/2011	10/15/2012	7/8/2013	7/29/2013	12/31/2014	2/28/2014	10/31/2014	12/31/2014	12/31/2015	3/31/2016
South/Cent Florida	5/15/2012	9/28/2012	4/15/2013	1/24/2014	2/10/2014	12/31/2014					
Phoenix	10/28/2012	3/14/2013	6/17/2013	12/31/2013							



OAPM Site Timeline/Phase Description



- **Study and Scoping:** The Study Phase is conducted by study teams that identify issues and propose potential solutions through facility and industry interface meetings. Industry representation is achieved with lead carrier representatives. The result of this phase is a set of conceptual designs, with a high-level assessment of benefits, costs, and risks.
- **Design and Procedure Development:** The Design Phase is where the detailed Integrated Airspace and Procedures design work is conducted. The work conducted in this phase uses the results of the study teams and is conducted by a D&I team. Industry representation is achieved with lead carrier representatives. When appropriate and justified, on-site Human-in-the-Loop (HITL) simulations and other design analyses may be part of this phase.
- **Evaluation:** The Evaluation Phase is the second stage conducted by the D&I team. It includes all necessary operational modeling, safety management system (SMS) analyses, and environmental reviews. Industry representation is achieved with lead carrier representatives. If analyses are conducted during the Design Phase, they may feed into the Evaluation Phase.
- **Implementation and Training:** The Implementation Phase is the last part of the OAPM process conducted by the D&I team. This phase includes all steps required for implementation of the OAPM project including flight inspections, publishing procedures, planning and executing training. Industry representation is achieved with lead carrier representatives.
- **Post Implementation Review and Modifications:** The Post-Implementation Phase includes a review of the implemented airspace and procedures changes to determine if they have delivered desired benefits and/or caused other impacts. Modifications or refinements may be made to better achieve desired benefits or address unforeseen impacts.

Current OAPM Schedule

a/o July 30, 2012

Site	FY11		FY12				FY13				FY14				FY15				FY16				FY17				FY18			
	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	
DC	D	D	D	D	E	E	E	E	E	E	I	I	I	I	P	P														
No Tex		D	D	D	E	E	E	E	E	E	I	I	I	I	P	P														
Houston	S	S		D	D	E	E	I	I	I	I	P	P																	
Charlotte	S			D	D	D	E	E	E	E	E	E	I	I	I	I	P	P												
Atlanta		S	S	D	D	D	E	E	E	E	E	E	I	I	I	I	P	P												
No Cal	S			D	D	D	E	E	E	E	E	E	E	I	I	I	I	P	P											
So Cal		S	S				D	D	D	E	E	E	E	E	E	E	I	I	I	I	P	P								
Florida					S	S			D	D	D	E	E	E	E	E	I	I	I	I	P	P								
Phoenix							S	S	D	D	D	E	E	E	E	E	I	I	I	I	P	P	P							
Chicago								S	S	D	D	D	E	E	E	E	E	I	I	I	I	P	P							
Memphis											S	S		D	D	D	D	E	E	E	E	E	I	I	I	I	P	P		
Cleveland/Detroit											S	S		D	D	D	E	E	E	E	E	E	E	I	I	I	I	P	P	
Boston											S	S		D	D	D	E	E	E	E	E	E	E	I	I	I	I	P	P	

Key:

Eastern Service Area	S Study
Central Service Area	D Design
Western Service Area	E Evaluate
	I Implement
	P Post-Eval

Milestone Leads Organizational Symbol	Functional Description
AJV-1	Airspace Services
AJV-121	Airspace Optimization Group
AJV-E	Mission Support, Eastern Service Center
AJV-C	Mission Support, Central Service Center
AJV-W	Mission Support, Western Service Center
AJV-114	Environmental Analysis
AJV-3	Aviation Systems Standards



Washington DC FYs 12 & 13 Milestones

Study and Scoping

Design and Procedure Development

Eval Phase
Operational, Environmental, and SMS Review

Implementation and Training

Post-Implementation Review and Modifications



A4A Core 30



Complete 11/12/2010

Complete 3/1/2012

Phase Start	3/26/2012	AJV-1
EA Kickoff	4/6/2012	AJV-1 14
SMS Initiate	6/18/2012	AJV-C
EA Purpose and Need Sect	6/29/2012	AJV-114
EA Alternatives Sect	8/3/2012	AJV-114
EA Affected Enviro Section	8/24/2012	AJV-114
Facilitation SRM Panel	9/14/2012	AJV-C
Final Ops Validation	9/28/2012	AJV-121
100% Design Complete	9/28/2012	AJV-121
SMS draft doc. completed	10/12/2012	AJV-C
EA Enviro Consequences Sect	11/30/2012	AJV-114
SMS final doc. completed	12/14/2012	AJV-C
SMS Final doc. signed	2/1/2013	AJV-C
Draft EA	2/28/2013	AJV-114
SMS Process Complete	3/29/2013	AJV-C
Final EA/FONSI	6/28/2013	AJV-114

Phase Start	7/1/2013	AJV-1
Impl Plan Complete	8/2/2013	AJV-121
Training Plan Complete	9/14/2013	AJV-121
Flight Checks	1/17/2014	AJV-3
Stakeholder Coordination	2/20/2014	AJV-1
Training Complete	5/30/2014	AJV-121
Implementation Complete	6/30/2014	AJV-121

Complete
On Track
May Be Missed
Missed
FY14 or beyond

RISKS/NOTES: NONE



North Texas FYs 12 & 13 Milestones

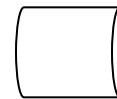
Study and Scoping

Design and Procedure Development

Eval Phase
Operational, Environmental, and SMS Review

Implementation and Training

Post-Implementation Review and Modifications



A4A Core 30
✓ ✓

Complete 12/16/10

Complete 4/1/2012

Phase Start	4/30/2012	AJV-1
EA Phase Start	4/30/2012	AJV-1 14
EA Kickoff	5/4/2012	AJV-114
EA Purpose and Need Section	7/18/2012	AJV-114
Final Ops Validation	7/27/2012	AJV-121
EA Alternatives Sect	8/7/2012	AJV-121
100% Design Complete	8/30/2012	AJV-121
Facilitation SRM Panel	9/17/2012	AJV-C
SMS Initiate	9/30/2012	AJV-C
EA Affected Enviro Section	10/5/2012	AJV-114
SMS draft doc. completed	11/30/2012	AJV-C
EA Enviro Consequences Sect	12/18/2012	AJV-114
SMS final doc. completed	2/1/2013	AJV-C
Draft EA	3/14/2013	AJV-C
SMS Final doc. signed	4/30/2012	AJV-C
SMS Process Complete	4/30/2013	AJV-114
Final EA FONSI	6/28/2013	AJV-1
EA Complete	6/30/2013	AJV-1 14

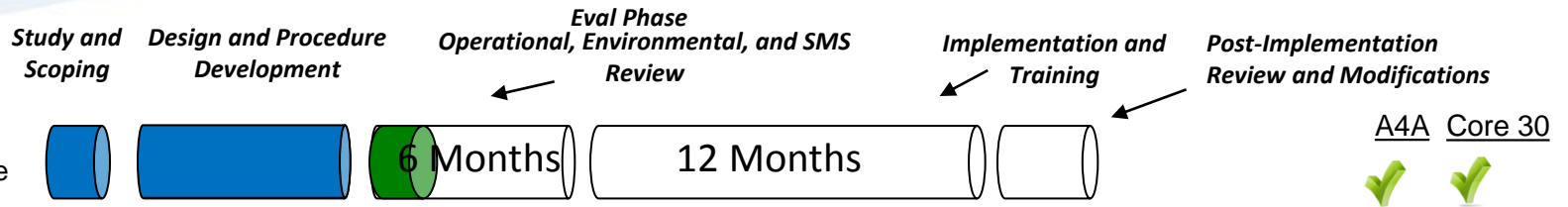
Phase Start	7/1/2013	AJV-1
Impl Plan Complete	8/1/2013	AJV-121
Training Plan Complete	9/14/2013	AJV-121
Flight Checks	1/17/2014	AJV-3
Stakeholder Coordination	2/20/2014	AJV-1
Training Complete	5/30/2014	AJV-121
Implementation Complete	6/30/2014	AJV-121

Complete
On Track
May Be Missed
Missed
FY14 or beyond

RISKS/NOTES: OAPM Team addressing SWA's concerns over track miles. May result in some delay on interim milestones, but not expected to delay overall phase completions.



Houston FYs 12 & 13 Milestones



Complete 8/19/2012

Phase Start	1/9/2012	AJV-1
25% Design	3/2/2012	AJV-121
50% Design	3/30/2012	AJV-121
75% Design	4/26/2012	AJV-121
90% Design	5/25/2012	AJV-121
Final Report	6/29/2012	AJV-121

EA Kickoff	2/14/2012	AJV-114
SMS Initiate	6/28/2012	AJV-C
EA Purpose and Need Sect	6/29/2012	AJV-114
Phase Start	7/6/2012	AJV-1
Facilitation SRM Panel	8/20/2012	AJV-C
SMS draft doc. completed	8/27/2012	AJV-C
EA Affected Enviro Section	8/31/2012	AJV-114
Final Ops Validation	9/3/2012	AJV-121
SMS final doc. completed	9/14/2012	AJV-C
SMS Final doc. signed	9/17/2012	AJV-C
100% Design Complete	9/28/2012	AJV-121
Internal Review Draft EA	11/2/2012	AJV-114
SMS Process Complete	12/12/2012	AJV-C
Final EA FONSI	1/12/2013	AJV-114
EA Complete	1/12/2013	AJV-114
EA Alternatives Section	TBD	AJV-114
EA Enviro Consequences Sect	TBD	AJV-114

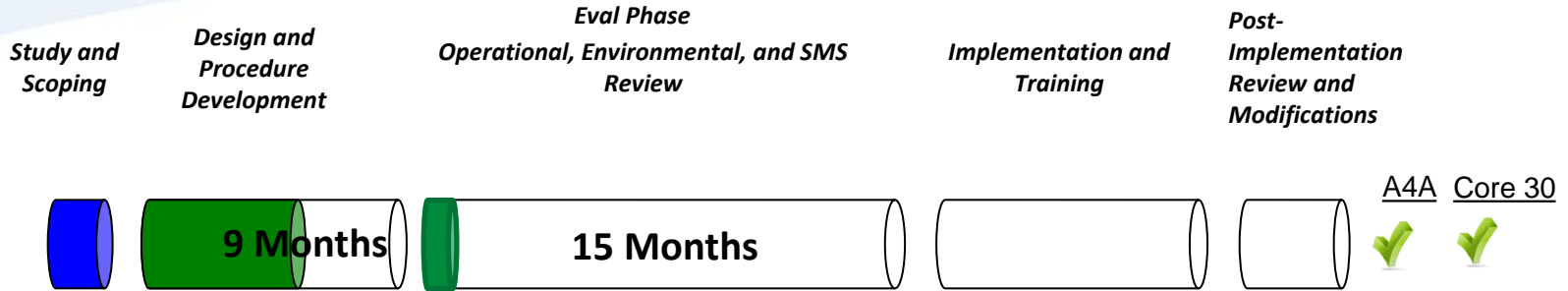
Phase Start	1/13/2013	AJV-1
Impl Plan Complete	2/15/2013	AJV-121
Training Plan Complete	3/29/2013	AJV-121
Flight Checks	7/31/2013	AJV-3
Stakeholder Coordination	8/30/2013	AJV-121
Training Complete	10/11/2013	AJV-121
Implementation Complete	12/28/2013	AJV-121

Complete
On Track
May Be Missed
Missed
FY14 or beyond

RISKS/NOTES: NONE



Charlotte FYs 12 & 13 Milestones



Complete 5/13/11

Phase Start	2/13/2012	AJV-1
25% Design	4/20/2012	AJV-121
50% Design	6/25/2012	AJV-121
75% Design	9/7/2012	AJV-121
90% Design	10/19/2012	AJV-121
Final Report	11/16/2012	AJV-121

EA Kickoff	4/19/2012	AJV-114
Phase Start	11/19/2012	AJV-1
EA Phase Start	11/19/2012	AJV-114
EA Purpose and Need Section	1/21/2013	AJV-114
EA Alternatives Sect	1/25/2013	AJV-114
Final Ops Validation	3/22/2013	AJV-121
EA Affected Enviro Section	4/5/2013	AJV-114
100% Design Complete	4/19/2013	AJV-121
SMS Initiate	5/6/2013	AJV-C
Facilitation SRM Panel	5/20/2013	AJV-C
EA Enviro Consequences Sect	7/10/2013	AJV-114
SMS draft doc. completed	9/20/2013	AJV-C
Draft EA	10/23/2013	AJV-114
SMS final doc. completed	10/25/2013	AJV-C
SMS Final doc. signed	12/6/2013	AJV-C
SMS Process Complete	11/18/2013	AJV-C
Final EA FONSI	2/19/2014	AJV-114
Eval Phase Complete	2/19/2014	AJV-1

Phase Start		AJV-1
Impl Plan Complete		AJV-121
Training Plan Complete		AJV-121
Flight Checks		AJV-3
Stakeholder Coordination		AJV-121
Training Complete		AJV-121
Implementation Complete		AJV-121

Complete
On Track
May Be Missed
Missed
FY14 or beyond

RISKS/NOTES: NONE



Atlanta FYs 12 & 13 Milestones



Complete 12/1/11

Phase Start	2/27/2012	AJV-1
25% Design	4/27/2012	AJV-121
50% Design	7/13/2012	AJV-121
75% Design	9/21/2012	AJV-121
90% Design	11/30/2012	AJV-121
Final Report	11/30/2012	AJV-121

EA Kickoff	4/19/2012	AJV-114
EA Purpose and Need Sect	6/13/2012 / 6/29/2012	AJV-114
EA Affected Enviro Section	9/26/2012	AJV-114
Phase Start	12/3/2012	AJV-1
EA Alternatives Section	1/11/2013	AJV-114
Final Ops Validation	2/28/2013	AJV-121
100% Design Complete	3/29/2013	AJV-121
SMS Initiate	4/1/2013	AJV-C
Facilitation SRM Panel	4/15/2013	AJV-C
EA Enviro Consequences Sect	5/24/2013	AJV-114
SMS draft doc. completed	7/29/2013	AJV-C
SMS final doc. completed	8/29/2013	AJV-C
SMS Final doc. signed	9/30/2013	AJV-C
Final EA FONSI	10/18/2013	AJV-114
SMS Process Complete	12/13/2013	AJV-C

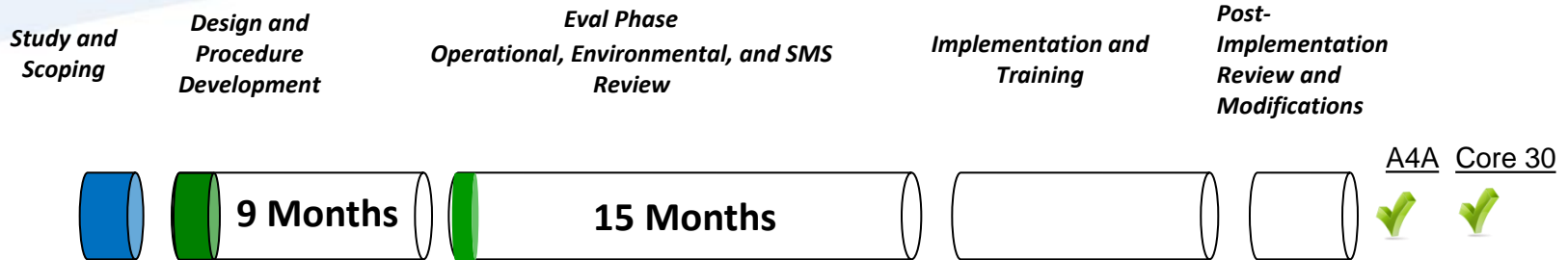
Phase Start		AJV-1
Impl Plan Complete		AJV-121
Training Plan Complete		AJV-121
Flight Checks		AJW-3
Stakeholder Coordination		AJV-121
Training Complete		AJV-121
Implementation Complete		AJV-121

Complete
On Track
May Be Missed
Missed
FY14 or beyond

RISKS/NOTES: EA Purpose Need Section completed late (6/29/12), but not a critical path activity and will not impact final EA phase milestone; no further delays foreseen.



Northern California FYs 12 & 13 Milestones



Complete 3/2012

Phase Start	3/19/2012	AJV-1
25% Design	5/25/2012	AJV-121
50% Design	8/3/2012	AJV-121
75% Design	10/12/2012	AJV-121
90% Design	11/23/2012	AJV-121
Final Report	12/21/2012	AJV-121

EA Kickoff	4/17/2012	AJV-114
Phase Start	1/6/2013	AJV-1
EA Alternatives Section	2/14/2013	AJV-114
EA Purpose and Need Section	2/22/2013	AJV-114
Final Ops Validation	4/5/2013	AJV-121
100% Design Complete	5/6/2013	AJV-121
SMS Initiate	5/13/2013	AJV-C
Facilitation SRM Panel	5/20/2013	AJV-C
EA Affected Enviro Section	6/7/2013	AJV-114
SMS draft doc. completed	8/1/2013	AJV-C
EA Enviro Consequences Sect	8/23/2013	AJV-114
SMS final doc. completed	8/29/2013	AJV-C
SMS Final doc. signed	9/30/2013	AJV-C
Draft EA	12/6/2013	AJV-114
SMS Process Complete	12/13/2013	AJV-C
Final EA FONSI	3/31/2014	AJV-114

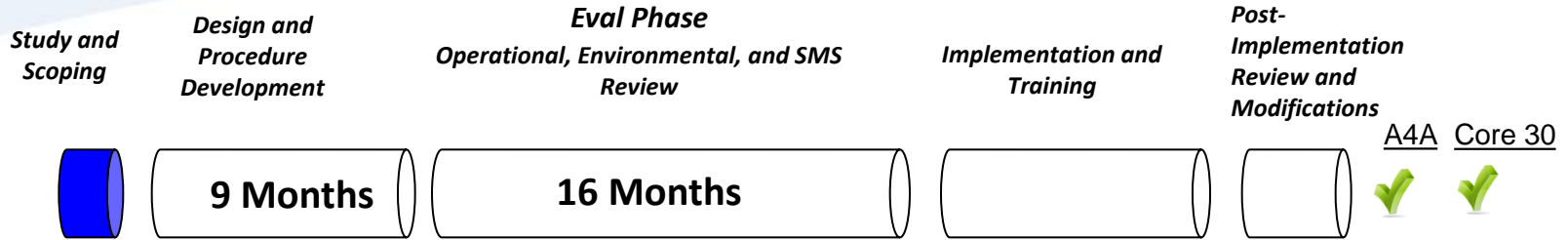
Phase Start	3/31/2015	AJV-1
Impl Plan Complete		AJV-121
Training Plan Complete		AJV-121
Flight Checks		AJV-3
Stakeholder Coordination		AJV-121
Training Complete		AJV-121
Implementation Complete		AJV-121

Complete
On Track
May Be Missed
Missed
FY14 or beyond

RISKS/NOTES: NONE



Southern California FYs 12 & 13 Milestones



Complete 12/2011

Phase Start	10/15/2012	AJV-1
25% Design	12/21/2012	AJV-121
50% Design	2/22/2013	AJV-121
75% Design	4/19/2013	AJV-121
90% Design	6/21/2013	AJV-121
Final Report	7/8/2013	AJV-121

Phase Start	7/15/2013	AJV-1
EA Kickoff	7/29/2013	AJV-114
EA Alternatives Section		AJV-114
EA Purpose and Need Sect		AJV-114
EA Affected Enviro Section		AJV-114
EA Enviro Consequences Sect		AJV-114
Initiate SMS		AJV-C
Facilitation SRM Panel		AJV-C
SMS draft doc. completed		AJV-C
SMS final doc. completed		AJV-C
SMS Final doc. signed		AJV-C
Draft EA		AJV-114
Final EA FONSI	12/31/2014	AJV-114
SMS Process Complete		AJV-C

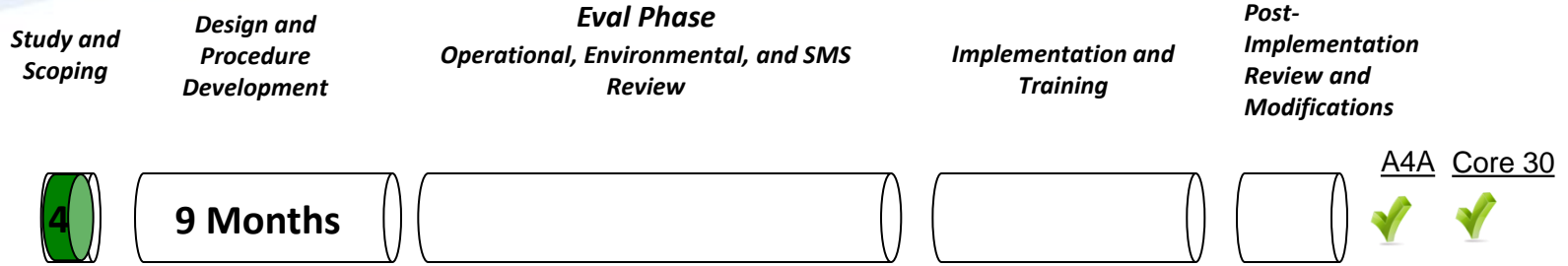
Phase Start		AJV-1
Impl Plan Complete		AJV-121
Training Plan Complete		AJV-121
Flight Checks		AJV-121
Stakeholder Coordination		AJV-121
Training Complete		AJV-121
Implementation Complete		AJV-121

Complete
On Track
May Be Missed
Missed
FY14 or beyond

RISKS/NOTES: Resource requirements as ZLA ERAM activities and the Las Vegas Optimization Project overlap OAPM.



South & Central Florida FYs 12 & 13 Milestones



Phase Start	5/15/2012	AJV-1
Administrative	6/8/2012	AJV-121
First Outreach	6/22/2012	AJV-121
Second Outreach	8/10/2012	AJV-121
Final Outreach	9/14/2012	AJV-121
Report Complete	9/28/2012	AJV-121

Phase Start	4/15/2013	AJV-1
25% Design	6/14/2013	AJV-121
50% Design	8/16/2013	AJV-121
75% Design	10/18/2013	AJV-121
90% Design	12/13/2013	AJV-121
Final Report	1/24/2014	AJV-121

Phase Start		AJV-1
EA Kickoff	2/10/2014	AJV-114
EA Alternatives Section		AJV-114
EA Purpose and Need Sect		AJV-114
EA Affected Enviro Section		AJV-114
Final Ops Validation		AJV-121
100% Design Complete		AJV-121
SMS Initiate		AJV-C
EA Enviro Consequences Sect		AJV-114
Facilitation SRM Panel		AJV-C
SMS draft doc. completed		AJV-C
SMS final doc. completed		AJV-C
SMS Final doc. signed		AJV-C
Draft EA		AJV-114
SMS Process Complete		AJV-C
Final EA/FONSI	12/31/2014	AJV-114

Phase Start		AJV-1
Impl Plan Complete		AJV-121
Training Plan Complete		AJV-121
Flight Checks		AJV-3
Stakeholder Coordination		AJV-121
Training Complete		AJV-121
Implementation Complete		AJV-121

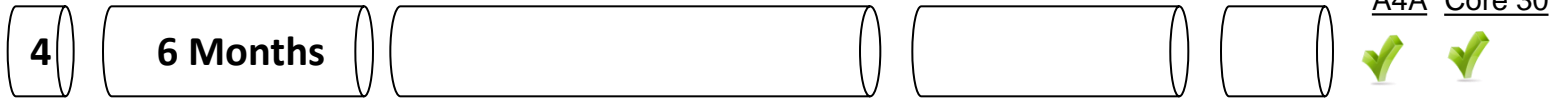
Complete
On Track
May Be Missed
Missed
FY14 or beyond

RISKS/NOTES: NONE



Phoenix FYs 12 & 13 Milestones

Study and Scoping Design and Procedure Development Eval Phase Operational, Environmental, and SMS Review Implementation and Training Post-Implementation Review and Modifications



Phase Start	10/28/2012	AJV-1
Administrative	11/15/2012	AJV-121
First Outreach	12/6/2012	AJV-121
Second Outreach	1/24/2013	AJV-121
Final Outreach	2/28/2013	AJV-121
Report Complete	3/14/2013	AJV-121

Phase Start	6/17/2013	AJV-1
25% Design	8/16/2013	AJV-121
50% Design	TBD	AJV-121
75% Design	TBD	AJV-121
90% Design	TBD	AJV-121
Final Report	12/31/2013	AJV-121

Phase Start		AJV-1
EA Kickoff		AJV-114
EA Alternatives Section		AJV-114
EA Purpose and Need Sect		AJV-114
EA Affected Enviro Section		AJV-114
Final Ops Validation		AJV-121
100% Design Complete		AJV-121
SMS Initiate		AJV-C
EA Enviro Consequences Sect		AJV-114
Facilitation SRM Panel		AJV-C
SMS draft doc. completed		AJV-C
SMS final doc. completed		AJV-C
SMS Final doc. signed		AJV-C
Draft EA		AJV-114
SMS Process Complete		AJV-C
Final EA/FONSI		AJV-114

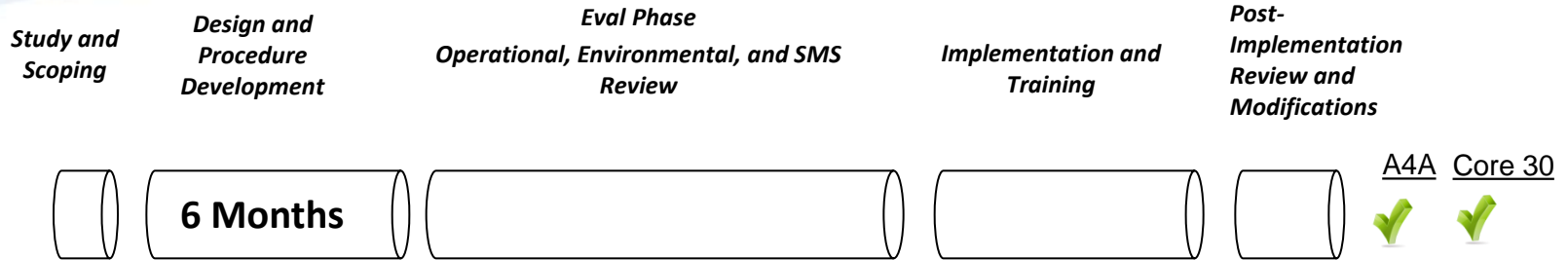
Phase Start		AJV-1
Impl Plan Complete		AJV-121
Training Plan Complete		AJV-121
Flight Checks		AJW-3
Stakeholder Coordination		AJV-121
Training Complete		AJV-121
Implementation Complete		AJV-121

Complete
On Track
May Be Missed
Missed
FY14 or beyond

RISKS/NOTES: NONE



Chicago FYs 12 & 13 Milestones



Phase Start	3/4/2013	AJV-1
Administrative	3/15/2013	AJV-121
First Outreach	3/22/2013	AJV-121
Second Outreach	4/26/2013	AJV-121
Final Outreach	5/31/2013	AJV-121
Report Complete	6/14/2013	AJV-121

Phase Start	9/16/2013	AJV-1
25% Design	TBD	AJV-121
50% Design	TBD	AJV-121
75% Design	TBD	AJV-121
90% Design	TBD	AJV-121
Final Report	3/31/2014	AJV-121

Phase Start		AJV-1
EA Kickoff		AJV-114
EA Alternatives Section		AJV-114
EA Purpose and Need Sect		AJV-114
EA Affected Enviro Section		AJV-114
Final Ops Validation		AJV-121
100% Design Complete		AJV-121
SMS Initiate		AJV-C
EA Enviro Consequences Sect		AJV-114
Facilitation SRM Panel	TBD	AJV-C
SMS draft doc. completed	TBD	AJV-C
SMS final doc. completed	TBD	AJV-C
SMS Final doc. signed	TBD	AJV-C
Draft EA		AJV-114
SMS Process Complete		AJV-C
Final EA/FONSI		AJV-114

Phase Start		AJV-1
Impl Plan Complete		AJV-121
Training Plan Complete		AJV-121
Flight Checks		AJV-3
Stakeholder Coordination		AJV-121
Training Complete		AJV-121
Implementation Complete		AJV-121

Complete
On Track
May Be Missed
Missed
FY14 or beyond

RISKS/NOTES: Chicago Airspace Project and O'Hare Modernization Plan are potential impacts



Next**GEN**

Performance-Based Navigation (PBN) Non-OAPM



FAA



Federal Aviation
Administration

PBN Milestones Summary and Dashboard Status as of Jul 24, 2012

No.	FY 12 Milestones	Completion
1	Portland preliminary designs complete	Jan 2012
2	St. Louis preliminary designs complete	Mar 2012
3	Memphis RNAV SIDs published	Apr 2012
4	Philadelphia RNAV STARs published	May 2012
5	LaGuardia RNAV SIDs published	May 2012
6	Portland RNP Published	Sep 2012
7	St. Louis RNAV SIDs and RNP published	Sep 2012
8	Anchorage RNAV SIDs and STAR published	Sep 2012

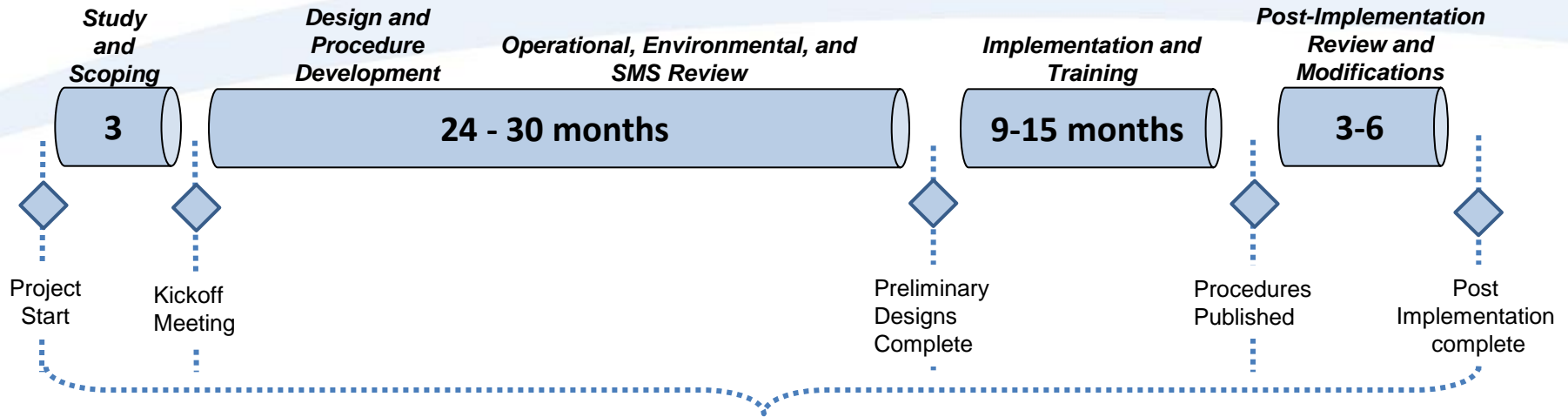
No.	FY 13 Milestones	Completion
1	Denver STARs and RNP published	Nov 2012
2	Nashville procedures published	Nov 2012
3	St. Louis STARs Published	Nov 2012
4	Denver SIDs published	Jan 2013
5	Minneapolis STARs and RNP published	Mar 2013
6	Seattle procedures published	Mar 2013
7	Minneapolis SIDs published	May 2013
8	Portland STARs published	Jun 2013

Complete
On Track
May Be Missed * See details page
Missed

Site	Project Start	Prototype design complete (pencils down)	Environmental Start	Environmental End	Submitted to Flight Procedures Team (FPT)		Submitted to AeroNav Products (AJV-3)		Published		
Denver	11/2009	1/2012	1/2010	8/2012	4/2012	6/2012	5/2012	7/2012	11/2012	1/2013	
Minneapolis	10/2010	8/2012	4/2012	9/2012	8/2012	10/2012	9/2012	11/2012	3/2013	5/2013	
Nashville	7/2010	3/2012	8/2011	8/2012	4/2012		5/2012		11/2012		
Portland	8/2011	3/2012	10/2011	3/2012	3/2012	8/2012	3/2012	9/2012	9/2011	3/2013	6/2013
St. Louis	4/2008	11/2011	6/2008	7/2012	3/2012	4/2012	3/2012	5/2012	9/2012	11/2012	
Seattle	6/2010	12/2011	10/2011	10/2012	8/2012		9/2012		3/2013		
Philadelphia	3/2008	12/2010	3/2008	2005	3/2012		12/2011		5/2012		
LaGuardia	1/2011	4/2011	1/2011	2005	11/2011		12/2011		5/2012		
Anchorage					3/2012		3/2012		9/2012		



PBN Site Timeline



Study and Scoping: a preliminary look at a PBN project where data is gathered for use in evaluating current operations and to design draft procedures that will be use in the PBN project.

Design and Procedure Development: Development work on prototype procedures is conducted. Procedures usually go through many changes and testing before becoming final drafts.

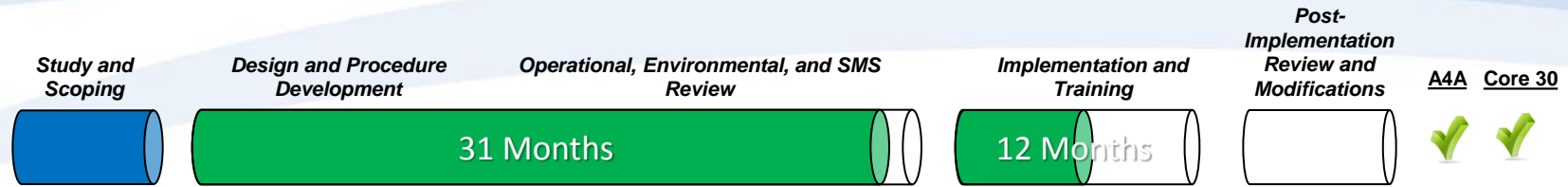
Operational, Environmental and SMS Review: All necessary operational modeling, safety analyses, and environmental reviews are conducted.

Implementation and Training: This includes all steps required for implementation including facility preparation and procedure development including flight inspection, publishing procedures and executing training.

Post Implementation Review and Modifications: Includes a review of the procedures changes to determine if they have delivered desired benefits and/or caused other impacts. Modifications or refinements may be made to better achieve desired benefits or address unforeseen impacts.

Denver Site Progress Status

15 SIDs, 17 STARs, and 12 RNPs



Project Start*	11/13/09	AJV-14
Gather Data	12/13/10	AJV-14
Initial draft prototype designs	1/15/11	AJV-14
Kickoff meeting	1/27/11	AJV-14

Environmental Review start (EA)	1/25/10	AJV-W2
Flight simulations complete	12/12/11	UA/SWA
Prototype designs draft	1/5/12	AJV-14
Procedure design complete (Pencils down)	1/10/12	AJV-14
Post Prototype design work	1/19/12	AJV-14
Orig Environmental Review complete **	6/30/12	AJV-W2
Conduct Public Meetings***	6/29/12	AJV-W2
Revised Environmental Review complete	8/16/12	AJV-W2

Orig First Publication Cycle (5/31/12)

Orig Second Publication Cycle (9/20/12)

Revised First Publication Cycle (11/15/12) STARs/RNPs		
Procedures submitted to FPT	4/27/12	AJV-14
Procedures submitted to AJV-3	5/25/12	AJV-W24
Due to QA	7/9/12	AJV-3
Due to Flight Inspection	8/1/12	AJV-3
Due to NACO	9/18/12	AJV-3
Training Complete	10/15/12	DEN/ZDV
Procedures Published	11/15/12	AJV-3
Procedures Implemented	11/22/12	AJV-14

Revised Second Publication Cycle (1/10/13) SIDs		
Procedures submitted to FPT	6/22/12	AJV-14
Procedures submitted to AJV-3	7/20/12	AJV-W24
Due to QA	9/3/12	AJV-3
Due to Flight Inspection	9/26/12	AJV-3
Due to NACO	11/13/12	AJV-3
Training Complete	2/10/13	DEN/ZDE
Procedures Published	1/10/13	AJV-3
Procedures Implemented	1/15/13	AJV-14

NOTES:

* Project start date reflects project re-start after delays to resolve inter-facility operational challenges.
 ** Original environmental review date revised to 8/16/12 due to delays to resolve partner airline procedure design concerns. Publication dates revised from 5/31/12 and 9/20/12 to 11/15/12 and 1/10/13.
 *** Approximately 30 comments received from public meeting, mainly regarding Alternative 3.

RISKS:

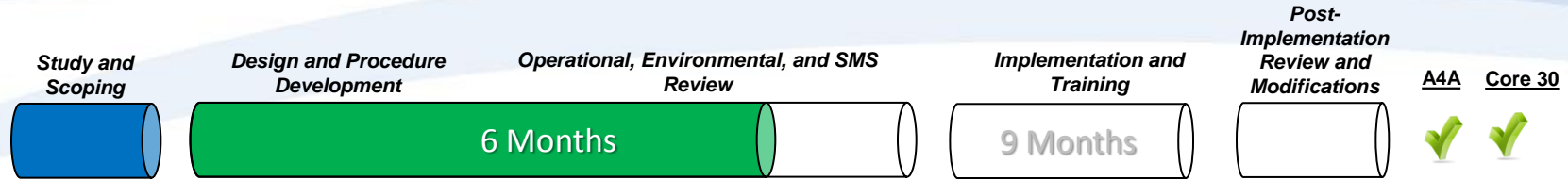
Criteria changes impact DEN SIDs. Workgroup is looking into mitigation options.

Complete
On Track
May Be Missed
Missed



Minneapolis Site Progress Status

13 SIDs, 6 STARs, 6 RNP's



Project Start	10/30/10	AJV-14
Gather Data	10/15/10	AJV-14
Initial draft prototype designs	11/1/10	AJV-14
Kickoff meeting	11/30/10	AJV-14

Environmental Review start	4/25/12	AJV-C2
Prototype designs draft	3/29/12	AJV-14
Noise Screen Complete*	6/22/12	AJV-14
Flight simulations complete	6/30/12 7/09/12	DAL/ SWA
Workgroup concurrence ***	7/15/12	AJV-14
Prototype design complete (Pencils down)	8/20/12	AJV-14
Post Prototype design work	9/20/12	AJV-14
Environmental Review complete*	9/30/12	AJV-C2

Orig First Publication Cycle (9/20/2012)

Chg. 1 First Publication Cycle (1/10/2013)

Chg. 1 Second Publication Cycle (3/7/2013)

Chg. 2 First Publication Cycle (3/7/2013) STARs/RNP's		
Procedures submitted to FPT	8/17/12	AJV-14
Procedures submitted to AJV-3	9/14/12	AJV-C24
Due to QA	10/29/12	AJV-3
Due to Flight Inspection	11/21/12	AJV-3
Due to NACO	1/8/13	AJV-3
Training Complete	2/15/13	MSP/ZMP
Procedures Published	3/7/13	AJV-3
Procedures Implemented	3/15/13	AJV-14

Chg. 2 Second Publication Cycle (5/2/2013) SIDs		
Procedures submitted to FPT	10/12/12	AJV-14
Procedures submitted to AJV-3	11/9/12	AJV-C24
Due to QA	12/24/12	AJV-3
Due to Flight Inspection	1/16/13	AJV-3
Due to NACO	3/5/13	AJV-3
Training Complete	4/2/13	MSP/ZMP
Procedures Published	5/2/13	AJV-3
Procedures Implemented	5/15/13	AJV-14

NOTES: Procedures chart date was originally set for 09/20/2012.

Change 1: Chart dates revised to 01/10/2013 and 03/7/2013 to permit Minneapolis Airport Commission (MAC) Noise Oversight Committee (NOC) review.

Change 2: NOC accepted procedures; Lead operator needed additional time to fly simulations. Chart dates moved to 03/7/2013 and 05/2/2013.

* Previous report reflected environmental review completion date as 6/30/12; this date was for completing the noise screen. Projected environmental review date is 9/30/12.

** Two SIDs published 7/25/12.

*** Workgroup concurrence delayed due to block altitude criteria issue on SIDs.

- Complete
- On Track
- May Be Missed
- Missed

RISKS:

- The Airport Commission has hired an environmental contractor for noise contour analysis, whereas the FAA is using internal resources to complete a noise screen. Differences in results could lead to project delay to resolve differences.
- MAC and the NOC plan to host an open house with the public later in the year. This has the potential to impact publication dates should changes to developed procedures be required.

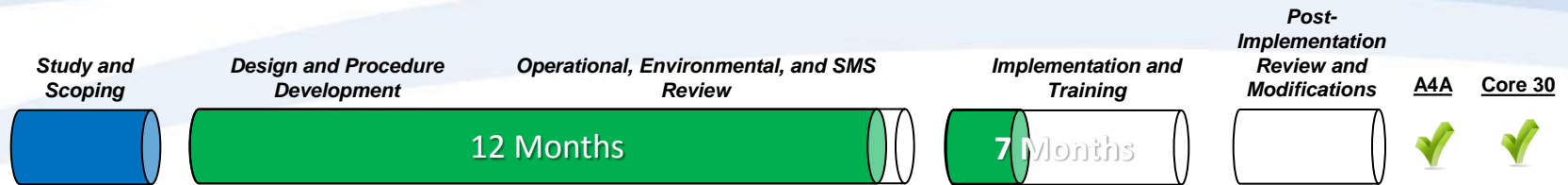


FAA



Nashville Site Progress Status

12 SIDs, 4 STARs, and 6 RNP's



Project Start	7/1/2010	AJV-14
Gather data	8/23/2010	AJV-14
Initial draft prototype designs	11/20/2010	AJV-14
Kickoff meeting	8/5/2010	AJV-14

Environmental Review start(CATEX)	8/16/11	AJV-E2
Prototype designs draft	8/16/11	AJV-14
Flight simulations complete	8/14/11	SWA
Workgroup concurrence	10/30/11	AJV-14
Prototype design complete (pencils down)	3/30/12	AJV-14
Post Prototype design work	4/15/12	AJV-14
Environmental Review complete	8/8/12	AJV-E2

Publication Cycle (11/15/2012)		
Procedures submitted to FPT	4/27/12	AJV-14
Procedures submitted to AJV-3	5/25/12	AJV-E24
Due to QA	7/9/12	AJV-3
Due to Flight Inspection	8/1/12	AJV-3
Due to NACO	9/18/12	AJV-3
Training Complete	10/01/12	BNA/ZME/ZTL
Procedures Published	11/15/12	AJV-3
Procedures Implemented	11/20/12	AJV-14

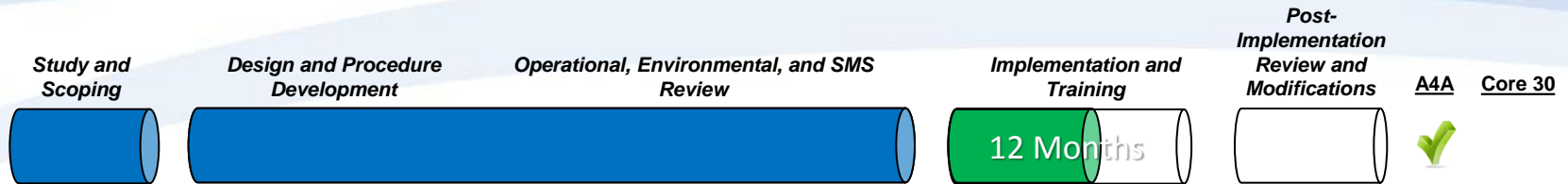
Complete
On Track
May Be Missed
Missed

RISKS: None



Portland OR (PDX) Site Progress Status

3 STARs 6 RNP's



Project Start	8/15/11	AJV-14
Gather data	8/15/11	AJV-14
Initial draft prototype designs	9/23/11	AJV-14
Kickoff meeting	10/3/11	AJV-14

Environmental Review start	10/3/11	AJV-W2
Prototype designs draft	1/19/12	AJV-14
Flight simulations complete	1/29/12	SWA
Workgroup concurrence	3/16/12	AJV-14
Prototype design complete (pencils down)	3/20/12	AJV-14
Post Prototype design work	3/20/12	AJV-14
Environmental Review complete	3/20/12	AJV-W2

First Publication Cycle (9/20/2012) RNP's		
Procedures submitted to FPT	3/2/12	AJV-14
Procedures submitted to AJV-3	3/30/12	AJV-W24
Due to QA	5/14/12	AJV-3
Due to Flight Inspection	6/6/12	AJV-3
Due to NACO***	7/24/12	AJV-3
Training Complete	8/20/12	PDX
Procedures Published	9/20/12	AJV-3
Procedures Implemented	9/25/12	AJV-14

Second Publication Cycle (3/7/2013) STAR		
Procedures submitted to FPT	8/17/12	AJV-14
Procedures submitted to AJV-3	9/14/12	AJV-W24
Due to QA	10/29/12	AJV-3
Due to Flight Inspection	11/21/12	AJV-3
Due to NACO	1/8/13	AJV-3
Training Complete	2/7/13	PDX/ZSE
Procedures Published	3/7/13	AJV-3
Procedures Implemented	3/20/13	AJV-14

Third Publication Cycle (6/27/2013) STARs		
Procedures submitted to FPT	12/7/12	AJV-14
Procedures submitted to AJV-3	1/4/13	AJV-W24
Due to QA	2/18/13	AJV-3
Due to Flight Inspection	3/13/13	AJV-3
Due to NACO	5/14/13	AJV-3
Training Complete	5/27/13	PDX/ZSE
Procedures Published	6/27/13	AJV-3
Procedures Implemented	7/3/13	AJV-14

NOTES:

Projected publication date for two STARs is being adjusted to 6/27/13 at the request of Seattle ARTCC to avoid potential conflicts with the Greener Skies STAR implementation at Seattle.

*** Flight inspection scheduled to start week of 7/23/12. Coordination made for late submission to NACO by 7/31/12.

RISKS: None

Complete
On Track
May Be Missed
Missed

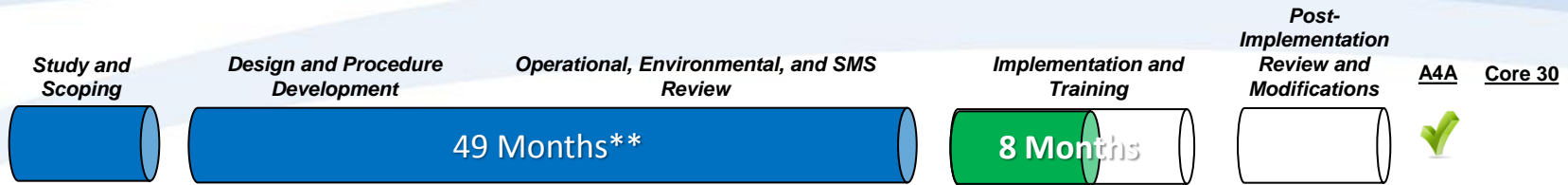


FAA



St. Louis Site Progress Status

13 SIDs 12 STARs 6 RNP



Project Start*	4/2008	AJV-14
Gather data	5/2008	AJV-14
Initial draft prototype designs	5/2008	AJV-14
Kickoff meeting	6/2008	AJV-14

Environmental Review start	6/30/2008	AJV-C2
Prototype designs draft	6/30/2011**	AJV-14
Flight simulations complete	8/31/2011	SWA
Workgroup concurrence	11/30/2011	AJV-14
Prototype design complete (pencils down)	11/30/2011	AJV-14
Post Prototype design work	12/15/2011	AJV-14
Environmental Review complete	7/2/2012***	AJV-C2

First Publication Cycle (9/20/2012) SIDs and RNP		
Procedures submitted to FPT	3/2/12	AJV-14
Procedures submitted to AJV-3	3/30/12	AJV-C24
Due to QA	5/14/12	AJV-3
Due to Flight Inspection	6/6/12	AJV-3
Due to NACO****	7/24/12	AJV-3
Training Complete	8/20/12	STL/ZKC
Procedures Published	9/20/12	AJV-3
Procedures Implemented	9/27/12	AJV-14

Second Publication Cycle (11/15/2012) STARs		
Procedures submitted to FPT	4/27/12	AJV-14
Procedures submitted to AJV-3	5/25/12	AJV-C24
Due to QA	7/9/12	AJV-3
Due to Flight Inspection	8/1/12	AJV-3
Due to NACO	9/18/12	AJV-3
Training Complete	10/15/12	STL/ZKC
Procedures Published	11/15/12	AJV-3
Procedures Implemented	11/22/12	AJV-14

- Complete
- On Track
- May Be Missed
- Missed

NOTES:

- * SID/STAR project started Apr 2008; RNP added Jul 2009
- ** Over 2 years of delay was incurred due to:
 - An out of date Part 150 study and addition of a new runway resulted in the FAA hiring an environmental contractor for noise analysis.
 - Subsequent changes in the lead airline operator and procedure development criteria resulted in procedures being re-developed and simulated.
 - New FAA/NATCA labor agreement resulted in delay for new review of designs
- *** CATEX signed by FAA.
- **** Flight inspection scheduled to start 7/29/12. Coordination made for late submission to NACO by 8/10/12.

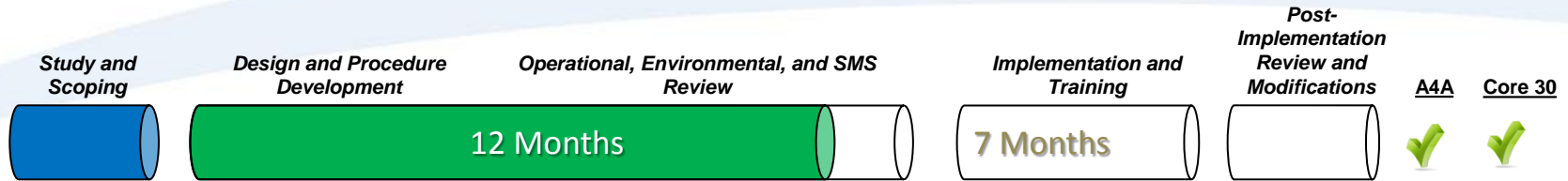
RISKS:

- Potential risk to completion of flight inspection of the RNAV SIDs and RNP due to construction on runway 12R/30L.
- Staffing constraint on Gateway TRACON to accomplish facility training prior to implementation. Risk will be mitigated by staggering RNAV SID and RNP training.



Seattle Site Progress Status

4 STARs 12 RNPs
(Greener Skies I1)



Project Start	6/2010	AJV-14
Gather data	7/2010	AJV-14
Initial draft prototype designs	8/2010	AJV-14
Kickoff meeting	9/2010	AJV-14

Environmental Review start	10/15/11	AJV-W2
Prototype designs draft	9/20/11	AJV-14
Flight simulations complete	11/10/11	ASA
Workgroup concurrence	12/1/11	AJV-14
Prototype design complete (pencils down)	12/15/11	AJV-14
Special RNAV STAR/RNP AR/RVFP submitted to AFS-460 and passed Flight Check	4/20/12	AJV-14
Special RNAV STAR/RNP AR/RVFP approved for 12-06 publication cycle	5/20/12	AFS-400
ATC training	5/11/12	SEA/ZSE
Flight Trials under 180 day CatX begin	6/11/12	SEA/ZSE
Post Prototype design work	8/1/12	AJV-14
Environmental Review complete	Est. 10/2012	AJV-W2

Publication Cycle (3/7/2013)		
Procedures submitted to FPT	8/17/12	AJV-14
Procedures submitted to AJV-3	9/14/12	AJV-W24
Due to QA	10/29/12	AJV-3
Due to Flight Inspection	11/21/12	AJV-3
Due to NACO	1/8/13	AJV-3
Training Complete	2/7/13	SEA/ZSE
Procedures Published	3/7/13	AJV-3
Procedures Implemented	3/14/13	AJV-14

Complete
On Track
May Be Missed
Missed

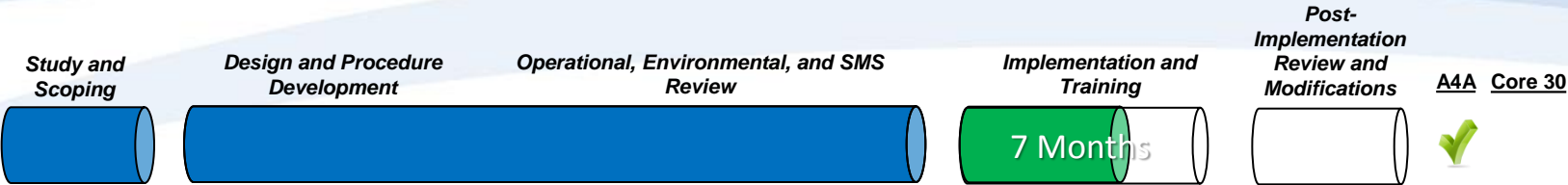
RISKS:

ROD date is an estimate. Draft EA was completed June 22, 2012. Two public workshops will be held in August 2012. Any challenges in completion of the EA or due to public comment could lead to delays to resolve concerns.



Anchorage Site Progress Status

2 STARs 1 SID



Complete 2011

Complete 2011

Publication Cycle (9/20/2012)		
Procedures submitted to FPT	3/2/12	AJV-14
Procedures submitted to AJV-3	3/30/12	AJV-W24
Due to QA	5/14/12	AJV-3
Due to Flight Inspection	6/6/12	AJV-3
Due to NACO	7/24/12	AJV-3
Training Complete	8/20/12	ANC/ZAN
Procedures Published	9/20/12	AJV-3
Procedures Implemented	9/27/12	AJV-14

NOTE: Published 4 revised STARs and 1 SID 2/2012

RISKS: None

- Complete
- On Track
- May Be Missed
- Missed



Next**GEN**

Third Party Vendor



FAA



Federal Aviation
Administration

Project Overview

- The FY12 Appropriation includes \$3M dollars for third party development and delivery of two (2) public Required Navigation Performance (RNP-AR) procedures at five (5) FAA-selected mid-size airports (10 total procedures).
- The vendor will design, deploy, and maintain public-use RNP approaches where aircraft flying RNP arrivals would achieve measurable benefit.
- Vendor must prepare all environmental paperwork, up to and including an environmental assessment.

Current Status:

- ✦ The FAA announced on 5/10/12 the award of the contract to GE-NAVERUS, ITT-Excelis teammate under the SE2020 SIR 1 contract vehicle (Boeing-Jeppesen was the only other bidder).
- ✦ This has high congressional staff interest.



3rd Party Vendor Milestones Summary and Dashboard Status as of June 30, 2012

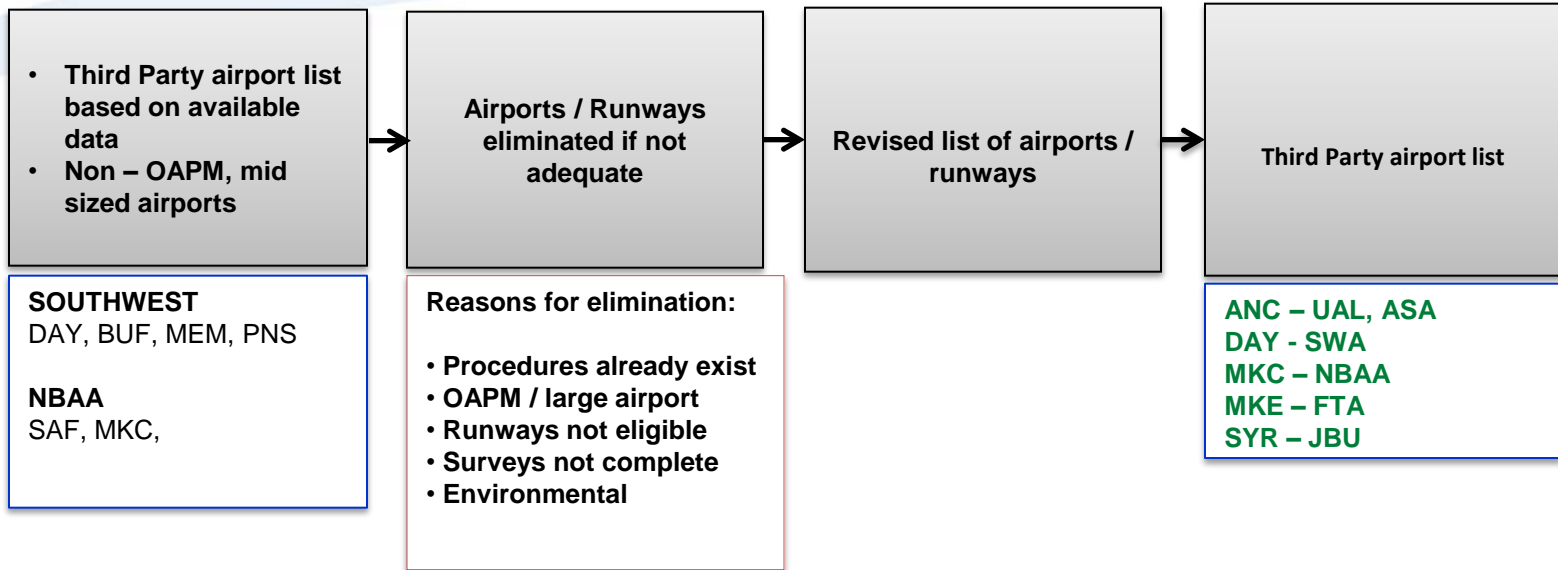
No.	FY 12 PLA Milestones (WIP)	Completion	No.	FY 13 Milestone (WIP)	Completion
1	Master Schedule Work Plan	Jun 2012	1		
2	Syracuse initial coordination	Jul 2012	2		
3	Syracuse workgroup kickoff meeting	Sept 2011	3		
4	Syracuse Implementation Plan	Sept 2011			

Complete
On Track
May Be Missed * See details page
Missed

Site	Project Start	Procedure design complete (pencils down)	Environmental Start	Environmental End	Submit Design Procedures to RAPT Team		Submit to Instrument Flight Procedure Team (IFPT)		Published	
Syracuse	7/2012	1/2013	8/2012	2/2014	7/24/2012	8/7/2012				
Milwaukee	9/2012									
Anchorage	1/2013									
Dayton	3/2013									
Kansas	5/2013									

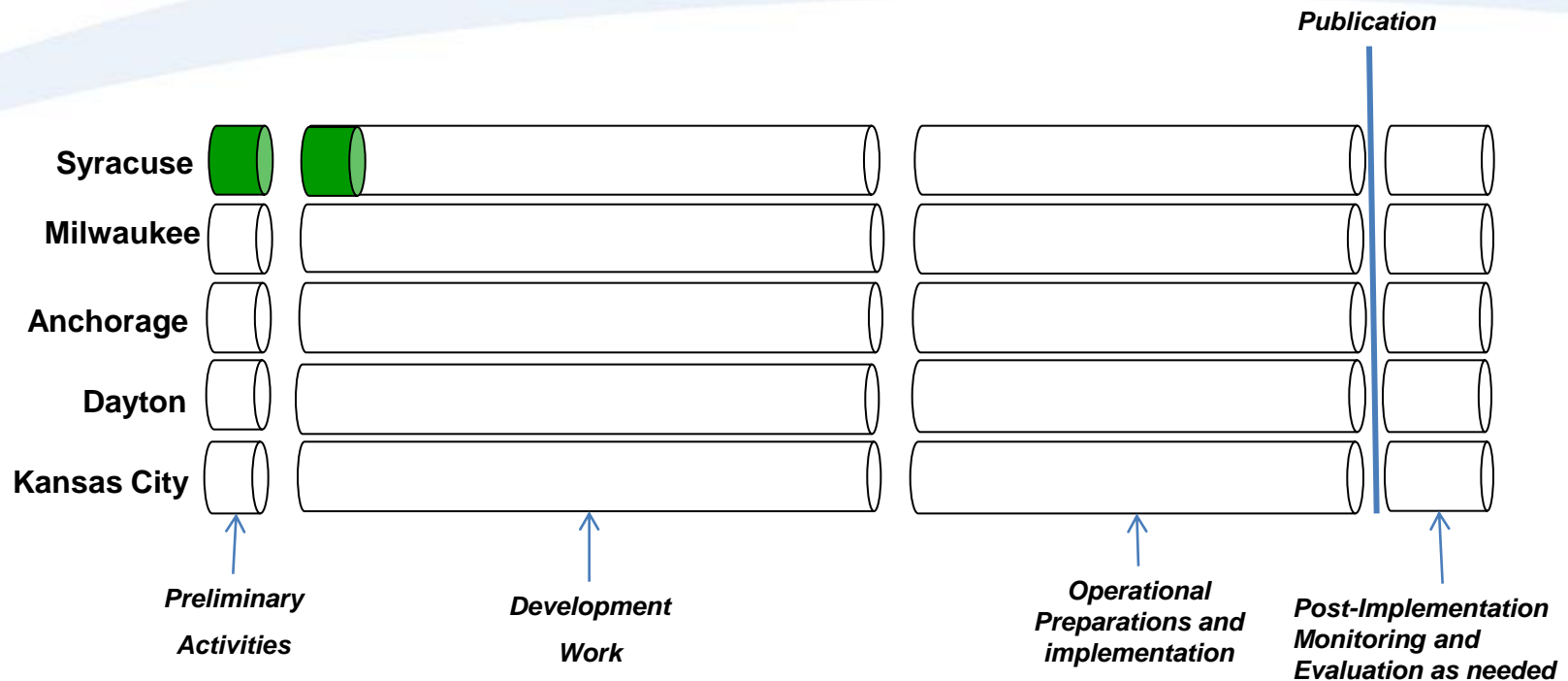


Locations



- **SYR** –SYRACUSE HANCOCK INTL AIRPORT, SYRACUSE, NY
- **MKE** - GENERAL MITCHELL INTL AIRPORT, MILWAUKEE, WI
- **ANC** - TED STEVENS ANCHORAGE INTL AIRPORT, ANCHORAGE, AK
- **DAY** - JAMES M COX DAYTON INTL AIRPORT, Dayton, OH
- **MKC** - CHARLES B. WHEELER DOWNTOWN AIRPORT, – KANSAS CITY, MO

3rd Party Sites Progress Status



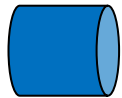
- Contract award notification issued on May 10, 2012
- Contract solidified on May 30, 2012
- Master schedule received on June 25, 2012
- Syracuse Initial Site Visit completed on July 18, 2012

Next Steps

- The contractor must accomplish the following tasks for each of two (2) public Required Navigation Performance (RNP AR) procedures at five (5) FAA-selected sites (10 total procedures) following the design and development process as outlined in AC 90-110 and the package submission process as listed in task 4.
 - + Task 1: Develop Implementation Plan
 - + Task 2: Perform Required Initial Coordination
 - + Task 3: Facilitate a Kick-Off Meeting with the Working Group
 - + Task 4: Develop Instrument Flight Procedure Concept
 - + Task 5: Training Package Support
 - + Task 6: Pre- and Post-Implementation Support
 - + Task 7: Program Management Activities
- + *Note:* Project Work Plan with supporting dates was submitted on June 25, 2012.

Syracuse Hancock Int'l Airport FYs 12 and 13 Milestones

Vendor Work Plan



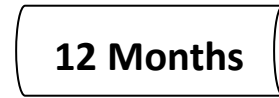
Initial Site Coordination



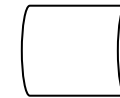
Develop Instrument Flight Procedure Concept



Implementation and Training Package



Pre - and Post-Implementation Review and Modifications



Vendor Work Plan Submit	6/25/12
-------------------------	---------

Initial Site Coordination	7/6/12
Initiate Data Gathering	7/6/12
Initial Site Visit	7/18/12

Environmental Impact Briefing	7/18/12	GE-Aviation
	9/18/12	
RNP Benefits, Limitations, and Capabilities Briefing	7/18/12	GE-Aviation
	9/18/12	
Submit Draft to RAPT	7/24/12	GE-Aviation
RAPT Approval and Assigned Publication Date	8/7/12	GE-Aviation
Kick-Off Meeting	9/18/12	GE-Aviation
Develop Procedure Design Concept	8/31/12	GE-Aviation
Develop Instrument Flight Procedure Concept	8/31/12	GE-Aviation
Submit Procedure Draft for Review	11/7/12	GE-Aviation
Obstacle Evaluations	12/10/12	GE-Aviation
Flight Validation Report	12/20/12	GE-Aviation

Implementation and Training Package	9/4/12	GE-Aviation
Final Procedure Design Package	1/7/13	GE-Aviation
ATC Training Complete	1/7/13	GE-Aviation
Pre and Post – Implementation Reviews and Analysis	2/4/13	GE-Aviation
SMS Documentation	2/4/13	GE-Aviation
Quarterly PMR/TIMs	5/30/13	GE-Aviation

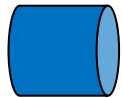
Complete
On Track
May Be Missed
Missed

RISKS:



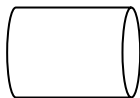
Milwaukee General Mitchell Int'l Airport FYs 12 and 13 Milestones

Vendor Work Plan



Vendor Work Plan Submit	6/25/12
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Initial Site Coordination



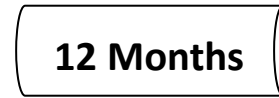
Initial Site Coordination	9/12
Initiate Data Gathering	9/12
Initial Site Visit	9/12

Develop Instrument Flight Procedure Concept



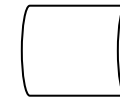
Kick-Off Meeting	11/12	GE-Aviation
Environmental Impact Briefing	9/12	GE-Aviation
	11/12	
RNP Benefits, Limitations, and Capabilities Briefing	9/12	GE-Aviation
	11/12	
Submit Draft to RAPT	9/12	GE-Aviation
RAPT Approval and Assigned Publication Date	10/12	GE-Aviation
Develop Procedure Design Concept	11/12	GE-Aviation
Develop Instrument Flight Procedure Concept	11/12	GE-Aviation
Submit Procedure Draft for Review	2/13	GE-Aviation
Obstacle Evaluations	3/13	GE-Aviation
Flight Validation Report	3/13	GE-Aviation
Final Procedure Design Package	4/13	GE-Aviation

Implementation and Training Package



Implementation and Training Package	1/13	GE-Aviation
Pre and Post – Implementation Reviews and Analysis	4/13	GE-Aviation
SMS Documentation	4/13	GE-Aviation
ATC Training Complete	4/13	GE-Aviation
Quarterly PMR/TIMs	6/13	GE-Aviation

Pre - and Post-Implementation Review and Modifications



Complete
On Track
May Be Missed
Missed

RISKS: Adjoining Cleveland and Chicago Initiatives: The adjoining Air Traffic facilities coordination restricts site coordination efforts and poses risks with coordination and schedule.

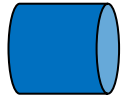
Mitigation/Comment:

Ted Stevens Anchorage Airport FYs 12 and 13 Milestones



James M Cox Dayton Airport FYs 12 and 13 Milestones

Vendor Work Plan



Initial Site Coordination



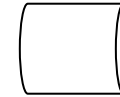
Develop Instrument Flight Procedure Concept



Implementation and Training Package



Pre - and Post-Implementation Review and Modifications



Vendor Work Plan Submit	6/25/12
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Initial Site Coordination	9/12
Initiate Data Gathering	9/12
Initial Site Visit	9/12

Initial Site Coordination	3/13	GE-Aviation
Initial Site Visit	3/13	GE-Aviation
Kick-Off Meeting	4/13	GE-Aviation
Initiate Data Gathering	3/13	GE-Aviation
Environmental Impact Briefing	3/13 4/13	GE-Aviation
RNP Benefits, Limitations, and Capabilities Briefing	3/13 4/13	GE-Aviation
Develop Procedure Design Concept	4/13	GE-Aviation
Submit to RAPT	4/13	GE-Aviation
Develop Instrument Flight Procedure Concept	4/13	GE-Aviation
RAPT Approval and Assigned Publication Date	5/13	GE-Aviation
Submit Procedure Draft for Review	7/13	GE-Aviation
Obstacle Evaluations	8/13	GE-Aviation
Flight Validation Report	8/13	GE-Aviation
Final Procedure Design Package	9/13	GE-Aviation

Implementation and Training Package	9/13	GE-Aviation
ATC Training Complete	9/13	GE-Aviation
Pre and Post – Implementation Reviews and Analysis	10/13	GE-Aviation
SMS Documentation	10/13	GE-Aviation
Quarterly PMR/TIMs	11/13	GE-Aviation

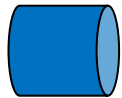
Complete
On Track
May Be Missed
Missed

RISKS:

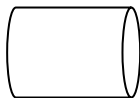


Charles B Wheeler Downtown Kansas City Airport FYs 12 and 13 Milestones

Vendor Work Plan



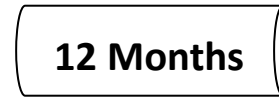
Initial Site Coordination



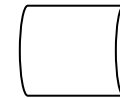
Develop Instrument Flight Procedure Concept



Implementation and Training Package



Pre - and Post-Implementation Review and Modifications



Vendor Work Plan Submit	6/25/12
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Initial Site Coordination	9/12
Initiate Data Gathering	9/12
Initial Site Visit	9/12

Initial Site Coordination	5/13	GE-Aviation
Initial Site Visit	5/13	GE-Aviation
Initiate Data Gathering	5/13	GE-Aviation
Environmental Impact Briefing	5/13	GE-Aviation
	6/13	
RNP Benefits, Limitations, and Capabilities Briefing	5/13	GE-Aviation
	6/13	
Submit to RAPT	5/13	GE-Aviation
Kick-Off Meeting	6/13	GE-Aviation
RAPT Approval and Assigned Publication Date	6/13	GE-Aviation
Develop Instrument Flight Procedure Concept	6/13	GE-Aviation
Develop Procedure Design Concept	6/13	GE-Aviation
Submit Procedure Draft for Review	9/13	GE-Aviation
Obstacle Evaluations	11/13	GE-Aviation
Flight Validation Report	11/13	GE-Aviation
Final Procedure Design Package	12/13	GE-Aviation

Implementation and Training Package	12/13	GE-Aviation
ATC Training Complete	12/13	GE-Aviation
Pre and Post - Implementation Reviews and Analysis SMS Documentation	1/14	GE-Aviation
	1/14	
Quarterly PMR/TIMs	1/14	GE-Aviation

Complete
On Track
May Be Missed
Missed

RISKS:

