

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> SOUTH BEND INTL	<u>AIRPORT ID</u> KSBN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9L	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> SOUTH BEND	<u>STATE</u> IN	
<u>AIRPORT ELEVATION</u> 798	<u>TDZE</u> 788	<u>SUPERSEDED</u> RNAV (GPS) RWY 9L	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 01/23/2003	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 13 SEPTEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
MAPER INT		LMSFX		TF	FB	2.00	154.98	15.32	2400
OXI VOR/DME		MRRTE		TF	FB	2.00	014.55	18.02	2400
LMSFX	IAF	WASIK		TF	FB	1.00	181.62	5.60	2400
MRRTE	IAF	WASIK		TF	FB	1.00	001.62	5.60	2400
WASIK	IF	EEJAY		TF	FB	1.00	091.62	6.00	2400
EEJAY	FAF	CEYYA/2.50 NM TO RW09L		TF	FB	0.30	091.71	2.44	
CEYYA/2.50 NM TO RW09L		RW09L	MAP	TF	FO	0.30	091.71	2.50	
RW09L	MAP	2000 MSL		CA			091.71		2000
2000 MSL		LASEA		DF	FO	1.00			2400

MISSED APPROACH

MAP:

LP: RW09L
 LNAV: RW09L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 2400 DIRECT LASEA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. PROFILE STARTS AT WASIK
3. FAC: 091.71 FAF: EEJAY DIST FAF TO MAP: 4.94 DIST FAF TO THLD: 4.94
4. MIN ALT: WASIK 2400, EEJAY 2400, CEYYA/2.50 NM TO RW09L 1240
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: OM: MM: IM:
6. MIN GP INCPT: GP ALT AT FAF :
7. GP ANGLE: 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH:
8. MSA FROM: RW09L 3000

PBN REQUIREMENTS NOTES:

RNP APCH.

NOTES:

CHART NOTE: RWY 9L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MAPPER ON V526 NORTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OXI VOR/DME AIRWAY RADIALS 297 CW 095.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
EEJAY TO RW09L: 3.00/39.8.
CHART VDP AT 1.17 NM TO RW09L
WAAS CHANNEL #70542
REFERENCE PATH ID: W09A
CHART FAS OBST: 944 TREE 414301N/0862053W.
CHART FAS OBST: 966 TREE 414313N/0862057W.
HOLD N, RT, 181.73 INBOUND
LTP HAE: 206.4 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LP MDA	1200	1	412	1200	1	412	1200	1 1/8	412	1200	1 1/8	412			
LNAV MDA	1220	1	432	1220	1	432	1220	1 1/4	432	1220	1 1/4	432			
CIRCLING	1280	1	482	1280	1	482	1440	1 3/4	642	1500	2 1/4	702			



CHANGES - REASONS

1. CHANGED TERMINAL ROUTE MAPER INT TO LMSFX COURSE/DISTANCE FROM 152.97/16.29 TO 154.98/15.32. - PROCEDURE REDESIGN ADJUSTED FIX LOCATIONS WHICH AFFECTED COURSES/DISTANCES.
2. CHANGED TERMINAL ROUTE OXI VOR/DME TO MRRTE COURSE/DISTANCE FROM 016.88/18.83 TO 014.55/18.02. - PROCEDURE REDESIGN ADJUSTED FIX LOCATIONS WHICH AFFECTED COURSES/DISTANCES.
3. CHANGED TERMINAL ROUTE LMSFX TO WASIK COURSE/DISTANCE FROM 181.63/5.00 TO 181.62/5.60. - PROCEDURE REDESIGN ADJUSTED FIX LOCATIONS WHICH AFFECTED COURSES/DISTANCES.
4. CHANGED TERMINAL ROUTE MRRTE TO WASIK COURSE/DISTANCE FROM 001.78/5.00 TO 001.62/5.60. - PROCEDURE REDESIGN ADJUSTED FIX LOCATIONS WHICH AFFECTED COURSES/DISTANCES.
5. CHANGED TERMINAL ROUTE WASIK TO EEJAY COURSE/DISTANCE FROM 091.63/5.00 TO 091.62/6.00. - PROCEDURE REDESIGN ADJUSTED FIX LOCATIONS WHICH AFFECTED COURSES/DISTANCES.
6. CHANGED DIST FAF TO THLD FROM 5 NM TO 4.94 NM. - TCH CHANGE REDUCED DISTANCE REQUIRED TO ACHIEVE 2400' FAF ALTITUDE, THEREBY RELOCATING THE FAF TO 4.94 NM FROM THLD.
7. REMOVED CHART NOTE: GPS OR RNP-0.3 REQUIRED. - NOTE FORMAT CHANGES IAW 8260.19H ELIMINATED RELEVANCE OF GPS OR RNP-0.3 REQUIRED NOTE.
8. REMOVED CHART NOTE: DME/DME RNP-0.3 NA. - NOTE FORMAT CHANGES IAW 8260.19H ELIMINATED RELEVANCE OF DME/DME RNP-0.3 NA NOTE.
9. ADDED PBN EQUIPMENT REQUIREMENTS NOTE: RNP APCH. - NEW REQUIRED NOTE IAW 8260.19H.
10. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA. - NEW CIRCLING CRITERIA/RADII APPLIED; REQUIRED ENTRY PER 8260.19H.
12. CHANGED EEJAY TO RW09L FROM 2.96/40 TO 3.00/39.8. - ADJUSTED TO MATCH VGSI.
13. CHANGED CHARTED VDP FROM 1.23 NM TO RW09L TO 1.17 NM TO RW09L. - CHANGES IN GLIDESLOPE/TCH RESULTED IN RECALCULATED VDP.
14. CHANGED CHART FAS OBST FROM 954 TWR (KSBN0057) 414308N/0862057W TO 966 TREE 414313N/0862057W. - TREE GROWTH RESULTED IN TREE HEIGHT OVERTAKING TWR HEIGHT, THUS IT IS THE NEW CONTROLLING OBSTACLE.
15. ADDED LP LINE OF MINIMA. - REASON FOR PROCEDURE AMENDMENT.
16. CHANGED LNAV CAT D VISIBILITY FROM 1 1/2 SM TO 1 1/4 SM. - ALL VISIBILITIES CALCULATED USING AFS-400 APPROVED CALCULATOR AND NEWEST VISIBILITY CRITERIA FROM 8260.3C SECTION 3-3 AND ASSOCIATED VISIBILITY MINIMUM TABLES.
17. CHANGED CAT A CIRCLING MDA/HAA FROM 1260/461 TO 1280/482. - NEW CONTROLLING OBSTRUCTION & NEWLY CALCULATED AIRPORT ELEVATION RESULTED IN DIFFERENT MDA/HAA.
18. CHANGED CAT C MDA/HAA FROM 1280/481 TO 1440/642. - NEW CONTROLLING OBSTRUCTION & NEWLY CALCULATED AIRPORT ELEVATION RESULTED IN DIFFERENT MDA/HAA.
19. CHANGED CAT D MDA/HAA FROM 1360/561 TO 1500/702. - NEW CONTROLLING OBSTRUCTION & NEWLY CALCULATED AIRPORT ELEVATION RESULTED IN DIFFERENT MDA/HAA.
20. DELETED NOTE: "STRAIGHT-IN MINIMUMS NA AT NIGHT" - 20:1 PENETRATIONS REMOVED.
21. ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OXI VOR/DME AIRWAY RADIALS 297 CW 095" - TURNS EXCEED 90 DEGREES.
22. ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT MAPPER ON V526 NORTHWEST BOUND" - TURN EXCEEDS 90 DEGREES.
23. ADDED ALTERNATE MINIMUMS - AIRPORT QUALIFIES FOR ALTERNATE MINIMA.



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZAU ARTCC, SBN ATCT, AMGR, ATA

FLIGHT CHECKED BY

SHAWN D MAXWELL

Digitally signed by
ROBERT G HAMILTON
Aug 06, 2018

OFFICE

FICO

DATE

8/4/18

DEVELOPED BY

JOSHUA LEETE

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Aug 06, 2018

OFFICE

AJV-5422

DATE

06/12/2018

APPROVED BY

JULIE MORGAN

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AJV-5420

DATE

TITLE

MANAGER



