

U.S. Department
of Transportation

800 Independence Ave., S.W.
Washington, D.C. 20591

**Federal Aviation
Administration**

Transmittal Letter 16-02

December 4, 2015

**PREPARED BY THE AERONAUTICAL INFORMATION GROUP, AJV-53
(AVAILABLE ON THE WEB AT [HTTP://NFDC.FAA.GOV](http://NFDC.FAA.GOV))**

**The enclosed Standard Instrument Approach Procedures, Departure
Procedures/Takeoff Minimums and Fix Actions are effective as indicated.**

**The following procedures, previously published in TL 15-26, effective December 10, 2015
have been rescinded in their entirety.**

Richmond, KY, Central Kentucky Rgnl, RNAV (GPS) RWY 18, Amdt 1B
Richmond, KY, Central Kentucky Rgnl, RNAV (GPS) RWY 36, Amdt 2

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31051](#); Amdt. No. [3673](#)]

**Standard Instrument Approach Procedures, and Takeoff Minimums
and Obstacle Departure Procedures; Miscellaneous Amendments**

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: This rule establishes, amends, suspends, or removes Standard Instrument Approach Procedures (SIAPs) and associated Takeoff Minimums and Obstacle Departure Procedures (ODPs) for operations at certain airports. These regulatory actions are needed because of the adoption of new or revised criteria, or because of changes occurring in the National Airspace System, such as the commissioning of new navigational facilities, adding new obstacles, or changing air traffic requirements. These changes are designed to provide safe and efficient use of the navigable airspace and to promote safe flight operations under instrument flight rules at the affected airports.

DATES: This rule is effective [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER]. The compliance date for each SIAP, associated Takeoff Minimums, and ODP is specified in the amendatory provisions.

The incorporation by reference of certain publications

listed in the regulations is approved by the Director of the Federal Register as of [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: Availability of matters incorporated by reference in the amendment is as follows:

For Examination

1. U.S. Department of Transportation, Docket Ops-M30, 1200 New Jersey Avenue SE, West Bldg., Ground Floor, Washington, D.C., 20590-0001.

2. The FAA Air Traffic Organization Service Area in which the affected airport is located;

3. The office of Aeronautical Navigation Products, 6500 South MacArthur Blvd., Oklahoma City, OK 73169 or,

4. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to:
http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Availability

All SIAPs and Takeoff Minimums and ODPs are available online free of charge. Visit the National Flight Data Center at nfdc.faa.gov to register. Additionally, individual SIAP and Takeoff Minimums and ODP copies may be obtained from the FAA Air Traffic Organization Service Area in which the affected airport is located.

FOR FURTHER INFORMATION CONTACT: Richard A. Dunham III, Flight Procedure Standards Branch (AFS-420), Flight Technologies and Programs Divisions, Flight Standards Service, Federal Aviation Administration, Mike Monroney Aeronautical Center, 6500 South MacArthur Blvd. Oklahoma City, OK. 73169 (Mail Address: P.O. Box 25082, Oklahoma City, OK 73125) Telephone: (405) 954-4164.

SUPPLEMENTARY INFORMATION:

This rule amends Title 14 of the Code of Federal Regulations, Part 97 (14 CFR part 97), by establishing, amending, suspending, or removes SIAPS, Takeoff Minimums and/or ODPS. The complete regulatory description of each SIAP and its associated Takeoff Minimums or ODP for an identified airport is listed on FAA form documents which are incorporated by reference in this amendment under 5 U.S.C. 552(a), 1 CFR part 51, and 14 CFR part §97.20. The applicable FAA forms are FAA Forms 8260-3, 8260-4, 8260-5, 8260-15A, and 8260-15B when required by an entry on 8260-15A.

The large number of SIAPs, Takeoff Minimums and ODPs, their complex nature, and the need for a special format make publication in the **Federal Register** expensive and impractical. Further, airmen do not use the regulatory text of the SIAPs, Takeoff Minimums or ODPs, but instead refer to their graphic depiction on charts printed by publishers of aeronautical materials. Thus, the advantages of incorporation by reference are realized and publication of the complete description of each

SIAP, Takeoff Minimums and ODP listed on FAA form documents is unnecessary. This amendment provides the affected CFR sections and specifies the types of SIAPs, Takeoff Minimums and ODPs with their applicable effective dates. This amendment also identifies the airport and its location, the procedure, and the amendment number.

Availability and Summary of Material Incorporated by Reference

The material incorporated by reference is publicly available as listed in the ADDRESSES section.

The material incorporated by reference describes SIAPS, Takeoff Minimums and/or ODPS as identified in the amendatory language for part 97 of this final rule.

The Rule

This amendment to 14 CFR part 97 is effective upon publication of each separate SIAP, Takeoff Minimums and ODP as Amended in the transmittal. Some SIAP and Takeoff Minimums and textual ODP amendments may have been issued previously by the FAA in a Flight Data Center (FDC) Notice to Airmen (NOTAM) as an emergency action of immediate flight safety relating directly to published aeronautical charts.

The circumstances that created the need for some SIAP and Takeoff Minimums and ODP amendments may require making them effective in less than 30 days. For the remaining SIAPs and Takeoff Minimums and ODPs, an effective date at least 30 days after publication is provided.

Further, the SIAPs and Takeoff Minimums and ODPs contained in this amendment are based on the criteria contained in the U.S. Standard for Terminal Instrument Procedures (TERPS). In developing these SIAPs and Takeoff Minimums and ODPs, the TERPS criteria were applied to the conditions existing or anticipated at the affected airports. Because of the close and immediate relationship between these SIAPs, Takeoff Minimums and ODPs, and safety in air commerce, I find that notice and public procedure under 5 U.S.C. 553(b) are impracticable and contrary to the public interest and, where applicable, under 5 U.S.C 553(d), good cause exists for making some SIAPs effective in less than 30 days.

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore--(1) is not a "significant regulatory action" under Executive Order 12866;(2) is not a "significant rule " under DOT Regulatory Policies and Procedures (44 FR 11034; February 26,1979) ; and (3)does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. For the same reason, the FAA certifies that this amendment will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR part 97:

Air Traffic Control, Airports, Incorporation by reference, and Navigation (Air).

Issued in Washington, DC on [DECEMBER 4, 2015](#)



John Duncan
Director, Flight Standards Service

ADOPTION OF THE AMENDMENT

Accordingly, pursuant to the authority delegated to me, Title 14, Code of Federal Regulations, Part 97 (14 CFR part 97) is amended by establishing, amending, suspending, or removing Standard Instrument Approach Procedures and/or Takeoff Minimums and Obstacle Departure Procedures effective at 0901 UTC on the dates specified, as follows:

Part 97—Standard Instrument Approach Procedures

1. The authority citation for part 97 continues to read as follows:

AUTHORITY: 49 U.S.C. 106(g), 40103, 40106, 40113, 40114, 40120, 44502, 44514, 44701, 44719, 44721-44722.

2. Part 97 is amended to read as follows:

Effective 7 JANUARY 2016

Paso Robles, CA, Paso Robles Muni, RNAV (GPS) RWY 31, Orig
 Oxford, CT, Waterbury-Oxford, RNAV (GPS) RWY 18, Amdt 2
 Plymouth, IN, Plymouth Muni, RNAV (GPS) RWY 10, Orig
 Plymouth, IN, Plymouth Muni, RNAV (GPS) RWY 28, Orig
 Detroit, MI, Willow Run, ILS OR LOC RWY 23L, Amdt 8
 Detroit, MI, Willow Run, RNAV (GPS) RWY 23L, Amdt 2
 Lynchburg, VA, Falwell, RNAV (GPS) RWY 28, Orig-B

Effective 4 FEBRUARY 2016

Dillingham, AK, Dillingham, VOR/DME RWY 19, Amdt 7C, CANCELED
 Middleton Island, AK, Middleton Island, VOR/DME RWY 20, Amdt 6B, CANCELED
 Talladega, AL, Talladega Muni, VOR/DME RWY 4, Amdt 6A, CANCELED
 Lake Village, AR, Lake Village Muni, VOR/DME-B, Amdt 6B, CANCELED
 Marshall, AR, Searcy County, RNAV (GPS) RWY 5, Orig
 Marshall, AR, Searcy County, RNAV (GPS) RWY 23, Orig
 Marshall, AR, Searcy County, Takeoff Minimums and Obstacle DP, Orig
 Walnut Ridge, AR, Walnut Ridge Rgnl, VOR-A, Amdt 16A, CANCELED
 Santa Ynez, CA, Santa Ynez, Takeoff Minimums and Obstacle DP, Amdt 2
 Denver, CO, Denver Intl, RNAV (GPS) Y RWY 8, Amdt 1B
 Denver, CO, Denver Intl, RNAV (RNP) Z RWY 8, Orig-B
 Apalachicola, FL, Apalachicola Rgnl-Cleve Randolph Field, NDB RWY 32, Amdt 2B, CANCELED
 Fort Pierce, FL, St Lucie County Intl, NDB-A, Orig-D, CANCELED
 Augusta, GA, Augusta Rgnl at Bush Field, VOR/DME RWY 17, Amdt 4A, CANCELED
 Olney-Noble, IL, Olney-Noble, VOR/DME-A, Amdt 9A, CANCELED
 Urbana, IL, Frasca Field, VOR/DME OR GPS-B, Amdt 6A, CANCELED
 Anderson, IN, Anderson Muni-Darlington Field, VOR-A, Amdt 9A, CANCELED
 Northampton, MA, Northampton, VOR-A, Amdt 5, CANCELED
 Provincetown, MA, Provincetown Muni, ILS OR LOC RWY 7, Amdt 9
 Provincetown, MA, Provincetown Muni, RNAV (GPS) RWY 7, Amdt 1
 Baltimore, MD, Baltimore/Washington Intl Thurgood Marshall, ILS OR LOC RWY 15L, Amdt 4
 Baltimore, MD, Baltimore/Washington Intl Thurgood Marshall, ILS OR LOC RWY 28, Amdt 17
 Baltimore, MD, Baltimore/Washington Intl Thurgood Marshall, ILS OR LOC RWY 33R, Amdt 3
 Baltimore, MD, Baltimore/Washington Intl Thurgood Marshall, RNAV (GPS) RWY 33R, Amdt 4
 Baltimore, MD, Baltimore/Washington Intl Thurgood Marshall, RNAV (GPS) Y RWY 28, Amdt 2
 Baltimore, MD, Baltimore/Washington Intl Thurgood Marshall, RNAV (RNP) Z RWY 28, Amdt 1
 Baltimore, MD, Baltimore/Washington Intl Thurgood Marshall, VOR RWY 28, Amdt 24, CANCELED
 Presque Isle, ME, Northern Maine Regional Arpt At Presque Is, VOR/DME RWY 1, Amdt 12B, CANCELED

Gaylord, MI, Gaylord Rgnl, VOR RWY 9, Amdt 2A, CANCELED
Grand Rapids, MI, Gerald R. Ford Intl, VOR RWY 35, Amdt 1A, CANCELED
Muskegon, MI, Muskegon County, VOR-A, Amdt 21, CANCELED
Natchez, MS, Hardy-Anders Field Natchez-Adams County, VOR/DME RWY 13, Amdt 3, CANCELED
Beaufort, NC, Michael J Smith Field, RNAV (GPS) RWY 26, Amdt 3
Erwin, NC, Harnett Rgnl Jetport, VOR/DME RWY 5, Amdt 2B, CANCELED
Myrtle Beach, SC, Myrtle Beach Intl, ILS OR LOC RWY 18, Amdt 4
Myrtle Beach, SC, Myrtle Beach Intl, ILS OR LOC RWY 36, Amdt 4
Myrtle Beach, SC, Myrtle Beach Intl, RNAV (GPS) RWY 18, Amdt 4
Myrtle Beach, SC, Myrtle Beach Intl, RNAV (GPS) RWY 36, Amdt 4
Myrtle Beach, SC, Myrtle Beach Intl, RNAV (GPS)-A, Amdt 1
Port Angeles, WA, William R Fairchild Intl, ILS OR LOC RWY 8, Amdt 3
Port Angeles, WA, William R Fairchild Intl, RNAV (GPS) RWY 8, Amdt 1
Port Angeles, WA, William R Fairchild Intl, RNAV (GPS) RWY 26, Amdt 1

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, 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 in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH						
FROM				TO			COURSE AND DISTANCE				ALTITUDE		LNAV: RW31							
PRB VORTAC				APURE (FO)			127.98 / 15.63				5100		CLIMBING RIGHT TURN TO 4500 DIRECT JEBNO AND HOLD.							
MQO VORTAC (IAF)				APURE (NOPT) (FB)			036.36 / 20.36				5100									
AVE VORTAC (IAF)				APURE (NOPT) (FB)			229.01 / 24.89				5100									
APURE (IF/IAF)				EBUDE (FB)			308.75 / 4.69				3700									
EBUDE				BAPTE (FB)			308.71 / 4.69				2700									
BAPTE (FAF)				DOJOS /3.10NM TO RW31 (FB)			308.68 / 2.63						ADDITIONAL FLIGHT DATA: HOLD W, RT, 078.60 INBOUND. CHART FAS OBST: 1134 POLE 353708N/1203516W CHART VDP AT 1.64 MILES TO RW31. CHART CIRCLING ICON. 1340 AAO 353717N/1203445W 1617 AAO 353542N/1203203W DOJOS TO RW31: 3.29/38.							
DOJOS / 3.10NM TO RW31				RW31 (MAP) (FO)			308.68 / 3.10													
(SEE FORM 8260-10)																				
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)														MAG VAR: 15E EPOCH YEAR: 1980						
2. HOLD SE APURE, RT, 308.75 INBOUND, 5100 FT. IN LIEU OF PT (IAF)																				
3. FAC: 308.68 FAF: BAPTE DIST FAF TO MAP: 5.73 THLD: 5.73																				
4. MIN. ALT: APURE 5100, EBUDE 3700, BAPTE 2700, DOJOS/3.10 NM TO RW31 1960																				
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:																				
6. MIN GS INCPT: GS ALT AT: OM: MM: IM:																				
7. GS ANGLE: TCH: 34:1 IS NOT CLEAR																				
8. MSA FROM: RW31 5600																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			STANDARD @										
CATEGORY ==>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
LNAV MDA	1400	1	561	1400	1	561	1400	1 5/8	561	1400	1 5/8	561								
CIRCLING	1400	1	561	1400	1	561	1440	1 3/4	601	1720	3	881								
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: VDP NA WITH SAN LUIS ALTIMETER SETTING. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON AVE VORTAC AIRWAY RADIALS 257 CW 313. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MQO VORTAC ON V113 SOUTHBOUND. (SEE FORM 8260-10)																				
CITY AND STATE PASO ROBLES, CA				ELEVATION: 839 TDZE: 839 AIRPORT NAME: PASO ROBLES MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, ORIG 7 JANUARY 2016					SUP: AMDT: DATED					

Bearings, headings, courses, 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 in feet RVR.

FROM

TO

1239 MSL

308.68

ALTITUDE

JEBNO (FO)

4500

CHART PROFILE NOTE: VGSI AND DESCENT ANGLE NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).

SUP: 4
AMDT: CHECKED NONE
DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												Bearings, headings, courses, 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 in feet RVR.		
ARINC SUMMARY - KPRB ROUTES														
TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
AVE	010	AVE	IF	FB										V A
AVE	020	APURE	TF	FB	1.0	229.0						AA 05100		EE B
MQO	010	MQO	IF	FB										V A
MQO	020	APURE	TF	FB	1.0	036.4						AA 05100		EE B
PRB	010	PRB	IF	FB										V
PRB	020	APURE	TF	FO	2.0	128.0						AA 05100		EY
PRB	030	APURE	HF	FO		308.8			R			AA 05100		EE A
	010	APURE	IF	FB								AA 05100		E I
	011	EBUDE	TF	FB	0.5	308.8						AA 03700		E
	020	BAPTE	TF	FB	0.5	308.7				RW31		AA 02700		E F
	021	DOJOS	TF	FB	0.3	308.7		3.29				AA 01960 GS 01960		E S
	030	RW31	TF	FO	0.3	308.7		3.29				AT 00877		GY M
	040		CA	FB		308.7						AA 01239		M
	050	JEBNO	DF	FO					R			AA 04500		EY
	060	JEBNO	HM	FO		078.6			R			AA 04500		EE
POINTS														
POINT NAME			LATITUDE			LONGITUDE								
AVE			N353849.11			W1195842.98								
MQO			N351508.12			W1204534.44								
PRB			N354020.87			W1203737.59								
APURE			N352750.43			W1202606.35								
BAPTE			N353524.39			W1203254.07								
DOJOS			N353731.48			W1203448.51								
EBUDE			N353137.46			W1202930.05								
JEBNO			N353946.21			W1202218.11								
RUNWAYS														
RUNWAY			THRESHOLD LATITUDE			THRESHOLD LONGITUDE			THRESHOLD ELEVATION			PROCEDURE TCH		
RW31			N354001.52			W1203703.78			00839			38		

CITY AND STATE
PASO ROBLES, CA

ELEVATION: **839** TDZE: **839**
 AIRPORT NAME:
PASO ROBLES MUNI

FACILITY
 IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 31, ORIG
 7 JANUARY 2016

SUP: **4**
 AMDT: **NONE**
 DATED:

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW18 CLIMB TO 2500 DIRECT CUTMA AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 004.81 INBOUND. CHART FAS OBST: 964 TREE 412921N/0730728W DISTANCE TO THLD FROM 414 HAT: 1.16 NM. CHART VDP AT 1.41 MILES TO RW18* *LNAV ONLY. WAAS CHANNEL # 42901 REFERENCE PATH ID: W18A CHART CIRCLING ICON LTP HAE: 191.8 M					
PWL VOR/DME		MOONI (FB)			137.44 / 15.02			3000							
MOONI (IAF)		WEXNO (NOPT) (FB)			094.68 / 6.83			3000							
BISCO (IAF)		WEXNO (NOPT) (FB)			270.08 / 6.00			3000							
WEXNO (IF/IAF)		ARQEB (FB)			184.76 / 5.50			2200							
ARQEB (FAF)		GICEN/2.60 NM TO RW18 (FB)			184.77 / 1.89										
GICEN/2.60 NM TO RW18		RW18 (MAP) (FO)			184.77 / 2.60										
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N WEXNO, RT, 184.76 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 184.77 FAF: ARQEB DIST FAF TO MAP: 4.49 THLD: 4.49 4. MIN. ALT: WEXNO 3000, ARQEB 2200, GICEN/2.60 NM TO RW18 1580* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2200 GS ALT AT: ARQEB 2200 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 43.8 34:1 IS CLEAR 8. MSA FROM: RW18 3100															
										MAG VAR: 14W			EPOCH YEAR: 1995		
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @						
CATEGORY ==>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1140	1 3/8	414	1140	1 3/8	414	1140	1 3/8	414	1140	1 3/8	414			
LNAV/VNAV DA	1146	1 3/8	420	1146	1 3/8	420	1146	1 3/8	420	1146	1 3/8	420			
LNAV MDA	1220	1	494	1220	1	494	1220	1 3/8	494	1220	1 3/8	494			
CIRCLING	1420	1	694	1420	1	694	1460	2	734	1560	2 3/4	834			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PWL VOR/DME AIRWAY RADIALS 055 CW 216. *LNAV ONLY (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 726 TDZE: 726			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:		
OXFORD, CT		AIRPORT NAME:			WATERBURY-OXFORD			RNAV (GPS) RWY 18, AMDT 2 7 JANUARY 2016					AMDT: 1		
													DATED 11/23/2006		



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW18 (MAP)	1126 MSL	184.77	
1126 MSL	CUTMA (FO)		2500

NOTES, (CONT.):

CHART NOTE: VDP AND BARO-VNAV NA WHEN USING DANBURY ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DANBURY ALTIMETER SETTING AND INCREASE ALL DA 77 FEET AND ALL MDA 80 FEET; INCREASE LPV ALL CATS AND LNAV CAT C, D VISIBILITY TO 1 5/8 MILE, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/4 MILE, CIRCLING CAT C VISIBILITY TO 2 1/2 MILE, AND CIRCLING CAT D VISIBILITY TO 3 MILE.

CHART PLANVIEW NOTE AT BISCO : RADAR REQUIRED

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MOONI ON V58-167 WESTBOUND, V34 NORTHWEST BOUND AND V91-487 NORTHBOUND.

QUALITY
23
CHECKED

CITY AND STATE
OXFORD, CT

ELEVATION: 726 TDZE: 726
AIRPORT NAME:
WATERBURY-OXFORD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 18, AMDT 2
7 JANUARY 2016

SUP:
AMDT: 1
DATED: 11/23/2006

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KOXC
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	412907.1720N
LTP/FTP LONGITUDE	0730812.1465W
LTP/FTP ELLIPSOIDAL HEIGHT	+01918
FPAP LATITUDE	412739.1780N
FPAP LONGITUDE	0730753.1590W
THRESHOLD CROSSING HEIGHT (TCH)	00043.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

D9A34573

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02211
FPAP ORTHOMETRIC HEIGHT	+02211

QUALITY
23
CHECKED

CITY AND STATE

OXFORD, CT

ELEVATION: 726

TDZE: 726

AIRPORT NAME:

WATERBURY-OXFORD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 18, AMDT 2

7 JANUARY 2016

SUP:

AMDT: 1

DATED: 11/23/2006

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KOXC

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
BISCO	010	BISCO	IF	FB										E A
BISCO	020	WEXNO	TF	FB	1.0	270.1						AA 03000		EE B
PWL	010	PWL	IF	FB										V
PWL	020	MOONI	TF	FB	2.0	137.4						AA 03000		E A
PWL	030	WEXNO	TF	FB	1.0	094.7						AA 03000		EE B
WEXNO	010	WEXNO	HF	FO		184.8			R			AA 03000		EE A
	010	WEXNO	IF	FB								AA 03000		E I
	020	ARQEB	TF	FB	0.5	184.8				RW18		AA 02200		E F
	021	GICEN	TF	FB	0.3	184.8		3.00				AA 01580 GS 01597		E S
	030	RW18	TF	FO	0.3	184.8		3.00				AT 00769		GY M
	040		CA	FB		184.8						AA 01126		M
	050	CUTMA	DF	FO								AA 02500		EY
	060	CUTMA	HM	FO		004.8			R			AA 02500		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
PWL	N414611.18	W0733601.99
ARQEB	N413333.39	W0730909.68
BISCO	N414026.19	W0730234.19
CUTMA	N411649.83	W0730533.45
GICEN	N413141.23	W0730845.43
MOONI	N413753.28	W0731919.43
WEXNO	N413859.27	W0731020.30

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW18	N412907.17	W0730812.15	00725	43.8

QUALITY
23
CHECKED

CITY AND STATE OXFORD, CT	ELEVATION: 726 TDZE: 726	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 2 7 JANUARY 2016	SUP:
	AIRPORT NAME: WATERBURY-OXFORD			AMDT: 1
				DATED: 11/23/2006

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, 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 in feet RVR.										
TERMINAL ROUTES											MISSED APPROACH					
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW10 CLIMB TO 3000 DIRECT TYROS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 280.94 INBOUND. CHART FAS OBST: 925 TREE 412233N/0862029W CHART: 972 T-L TWR 412143N/0862131W DISTANCE TO THLD FROM 270 HAT: 0.73 NM. CHART VDP AT 1.09 MILES TO RW10* *LNAV ONLY. WAAS CHANNEL # 86338 REFERENCE PATH ID: W10A CHART CIRCLING ICON. LTP HAE: 208.8 M						
LEBKE (IAF)		PHONO (NOPT) (FB)			160.51 / 7.50			3000								
ROGRE (IAF)		PHONO (NOPT) (FB)			040.50 / 7.50			3000								
PHONO (IF/IAF)		JABAS (FB)			100.56 / 7.50			2500								
JABAS (FAF)		LAAZY/2.10 NM TO RW10 (FB)			100.67 / 3.14											
LAAZY/2.10 NM TO RW10		RW10 (MAP) (FO)			100.67 / 2.10											
RW10 (MAP)		1066 MSL			100.67											
1066 MSL		TYROS (FO)						3000								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W PHONO, RT, 100.56 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 100.67 FAF: JABAS DIST FAF TO MAP: 5.24 THLD: 5.24 4. MIN. ALT: PHONO 3000, JABAS 2500, LAAZY/2.10 NM TO RW10 1500* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2500 GS ALT AT: JABAS 2500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 36.0 34:1 IS NOT CLEAR 8. MSA FROM: _____											MAG VAR: 5W		EPOCH YEAR: 2020			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		X							
CATEGORY ==>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	1088	1	292	1088	1	292	1088	1	292		NA					
LNAV/VNAV DA	1066	1	270	1066	1	270	1066	1	270		NA					
LNAV MDA	1180	1	384	1180	1	384	1180	1 1/8	384		NA					
CIRCLING	1280	1	480	1360	1	560	1540	2	740		NA					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SOUTH BEND ALTIMETER SETTING. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 800 TDZE: 796			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
PLYMOUTH, IN		AIRPORT NAME:			PLYMOUTH MUNI			RNAV (GPS) RWY 10, ORIG 7 JANUARY 2016				AMDT: NONE				
											DATED					



**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

NOTES, (CONT.):

CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF; WHEN NOT RECEIVED, USE SOUTH BEND ALTIMETER SETTING AND INCREASE LPV DA TO 1136 FT AND VISIBILITY ALL CATS 1/8 MILE, LNAV/VNAV DA TO 1114 FT AND VISIBILITY ALL CATS 1/8 MILE, ALL MDA 60 FEET AND LNAV AND CIRCLING CAT C VISIBILITY 1/4 MILE.

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	041/30 CW 161/30 (NOPT)	PHONO (IF/IAF) (FB)	3000
2.	161/30 CW 281/30	LEBKE (IAF) (FB)	3000
3.	281/30 CW 041/30	ROGRE (IAF) (FB)	3000

QUALITY
16
CHECKED

CITY AND STATE

PLYMOUTH, IN

ELEVATION: 800

TDZE: 796

AIRPORT NAME:

PLYMOUTH MUNI

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 10, ORIG

7 JANUARY 2016

SUP:

AMDT: NONE

DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	C65
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	412156.6500N
LTP/FTP LONGITUDE	0861829.6345W
LTP/FTP ELLIPSOIDAL HEIGHT	+02088
FPAP LATITUDE	412147.7015N
FPAP LONGITUDE	0861631.9015W
THRESHOLD CROSSING HEIGHT (TCH)	00036.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1408
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 AF1F86EE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02426
FPAP ORTHOMETRIC HEIGHT	+02426

QUALITY
16
CHECKED

CITY AND STATE PLYMOUTH, IN	ELEVATION: 800 TDZE: 796 AIRPORT NAME: PLYMOUTH MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 10, ORIG 7 JANUARY 2016	SUP:
				AMDT: NONE
				DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - C65

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
LEBKE	010	LEBKE	IF	FB										E A
LEBKE	020	PHONO	TF	FB	1.0	160.5						AA 03000		EE B
PHONO	010	PHONO	HF	FO		100.6			R			AA 03000		EE A
ROGRE	010	ROGRE	IF	FB										E A
ROGRE	020	PHONO	TF	FB	1.0	040.5						AA 03000		EE B
	010	PHONO	IF	FB								AA 03000		E I
	020	JABAS	TF	FB	0.5	100.6						AA 02500		E F
	021	LAAZY	TF	FB	0.3	100.7		3.00				AA 01500 GS 01501		E S
	030	RW10	TF	FO	0.3	100.7		3.00				AT 00832		GY M
	040		CA	FB		100.7						AA 01066		M
	050	TYROS	DF	FO								AA 03000		EY
	060	TYROS	HM	FO		280.9			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
JABAS	N412227.94	W0862524.96
LAAZY	N412209.25	W0862116.14
LEBKE	N413001.84	W0863927.65
PHONO	N412312.03	W0863519.87
ROGRE	N411705.61	W0864107.00
TYROS	N412037.52	W0860123.62

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW10	N412156.65	W0861829.63	00796	36

QUALITY
16
CHECKED

CITY AND STATE PLYMOUTH, IN	ELEVATION: 800 TDZE: 796	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: PLYMOUTH MUNI	RNAV	RNAV (GPS) RWY 10, ORIG 7 JANUARY 2016	AMDT: NONE
				DATED:

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.															
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW28 CLIMB TO 3000 DIRECT PHONO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 100.56 INBOUND. CHART FAS OBST: 922 TREE 412121N/0861629W DISTANCE TO THLD FROM 303 HAT: 0.81 NM. CHART VDP AT 1.01 MILES TO RW28* *LNAV ONLY. WAAS CHANNEL # 90238 REFERENCE PATH ID: W28A CHART CIRCLING ICON. LTP HAE: 208.7 M									
GROGS (IAF)		TYROS (NOPT) (FB)		340.98 / 7.50				3000											
NIMOE (IAF)		TYROS (NOPT) (FB)		221.00 / 7.50				3000											
TYROS (IF/IAF)		SURGY (FB)		280.94 / 7.13				2500											
SURGY (FAF)		WEEPS/2.20 NM TO RW28 (FB)		280.83 / 2.94															
WEEPS/2.20 NM TO RW28		RW28 (MAP) (FO)		280.83 / 2.20															
RW28 (MAP)		1099 MSL		280.83				3000											
1099 MSL		PHONO (FO)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E TYROS, RT, 280.94 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 280.83 FAF: SURGY DIST FAF TO MAP: 5.14 THLD: 5.14 4. MIN. ALT: TYROS 3000, SURGY 2500, WEEPS/2.20 NM TO RW28 1540* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2500 GS ALT AT: SURGY 2500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.05 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: _____																MAG VAR: 5W		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		X									
CATEGORY ==>		A		B		C		D		E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
LPV DA	1099	1	303	1099	1	303	1099	1	303		NA								
LNAV/VNAV DA	1176	1 1/4	380	1176	1 1/4	380	1176	1 1/4	380		NA								
LNAV MDA	1180	1	384	1180	1	384	1180	1 1/8	384		NA								
CIRCLING	1280	1	480	1360	1	560	1540	2	740		NA								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SOUTH BEND ALTIMETER SETTING. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 800 TDZE: 796				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
PLYMOUTH, IN		AIRPORT NAME: PLYMOUTH MUNI						RNAV (GPS) RWY 28, ORIG 7 JANUARY 2016				AMDT: NONE							
												DATED							



**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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NOTES, (CONT.):

CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF; WHEN NOT RECEIVED, USE SOUTH BEND ALTIMETER

SETTING AND INCREASE LPV DA TO 1147 FT AND VISIBILITY ALL CATS 1/8 MILE, LNAV/VNAV DA TO 1224 FT

AND VISIBILITY ALL CATS 1/4 MILE, ALL MDA 60 FEET AND LNAV AND CIRCLING CAT C VISIBILITY 1/4

MILE.

TAA

	FROM	TO	ALT
1.	221/30 CW 341/30 (NOPT)	TYROS (IF/IAF) (FB)	3000
2.	341/30 CW 101/30	GROGS (IAF) (FB)	3000
3.	101/30 CW 221/30	NIMOE (IAF) (FB)	3000

QUALITY
16
CHECKED

CITY AND STATE

PLYMOUTH, IN

ELEVATION: 800

TDZE: 796

AIRPORT NAME:

PLYMOUTH MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 28, ORIG

7 JANUARY 2016

SUP:

AMDT: NONE

DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	C65
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	412152.5885N
LTP/FTP LONGITUDE	0861736.1300W
LTP/FTP ELLIPSOIDAL HEIGHT	+02087
FPAP LATITUDE	412201.5185N
FPAP LONGITUDE	0861933.8685W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.05
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1504
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

CE263706

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02425
FPAP ORTHOMETRIC HEIGHT	+02425

QUALITY
16
CHECKED

CITY AND STATE

PLYMOUTH, IN

ELEVATION: 800

TDZE: 796

AIRPORT NAME:

PLYMOUTH MUNI

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 28, ORIG

7 JANUARY 2016

SUP:

AMDT:

NONE

DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - C65

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
GROGS	010	GROGS	IF	FB										E A
GROGS	020	TYROS	TF	FB	1.0	341.0						AA 03000		EE B
NIMOE	010	NIMOE	IF	FB										E A
NIMOE	020	TYROS	TF	FB	1.0	221.0						AA 03000		EE B
TYROS	010	TYROS	HF	FO		280.9			R			AA 03000		EE A
	010	TYROS	IF	FB								AA 03000		E I
	020	SURGY	TF	FB	0.5	280.9						AA 02500		E F
	021	WEEPS	TF	FB	0.3	280.8		3.05				AA 01540 GS 01548		E S
	030	RW28	TF	FO	0.3	280.8		3.05				AT 00836		GY M
	040		CA	FB		280.8						AA 01099		M
	050	PHONO	DF	FO								AA 03000		EY
	060	PHONO	HM	FO		100.6			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
GROGS	N411346.32	W0855720.47
NIMOE	N412641.90	W0855532.41
PHONO	N412312.03	W0863519.87
SURGY	N412121.42	W0861048.63
TYROS	N412037.52	W0860123.62
WEEPS	N412139.30	W0861441.72

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW28	N412152.59	W0861736.13	00796	40

QUALITY
16
CHECKED

CITY AND STATE PLYMOUTH, IN	ELEVATION: 800 TDZE: 796	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: PLYMOUTH MUNI	RNAV	RNAV (GPS) RWY 28, ORIG 7 JANUARY 2016	AMDT: NONE
				DATED:

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, 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 in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH						
FROM				TO			COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 3.90 MILES AFTER FELUS INT/I-LSW 3.74 DME/RADAR							
KUPNE (IAF) VRADO INT/I-LSW 9.74 DME/RADAR (IF)				VRADO (FB) FELUS INT/I-LSW 3.74 DME/RADAR			149.28 / 6.14 232.72 / 6.00 (I-LSW)				2400 2000		CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 3000 DIRECT SVM VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 3000 DIRECT ZAVEX INT/CRL 11.10 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 114.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW ZAVEX INT/CRL 11.10 DME, RT, 120.53 INBOUND. FAS OBST: 883 AAO 421718N/0832818W 909 AAO 421718N/0832633W CHART IN PROFILE: I-LSW DME ANTENNA CHART VDP AT 1.04 DME* DISTANCE VDP TO THLD 1.20 MILES. * LOC ONLY. CHART KUPNE/DXO 14.00 DME/RADAR CHART CIRCLING ICON CHART 4 NM ON OUTBOUND LEG OF HOLDING PATTERN AT ZAVEX.							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 6W EPOCH YEAR: 1995						
2. PROFILE STARTS AT VRADO INT/I-LSW 9.74 DME/RADAR																				
3. FAC: 232.72 FAF: FELUS INT/I-LSW 3.74 DME/RADAR DIST FAF TO MAP: 3.90 THLD: 3.90																				
4. MIN. ALT: VRADO 2400, FELUS 2000																				
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: 1044																				
6. MIN GS INCPT: 2000 GS ALT AT: FELUS 2000 OM: _____ MM: _____ IM: _____																				
7. GS ANGLE: 3.00 TCH: 57.2																				
8. MSA FROM: SVM VORTAC 050-295 3100, 295-050 2600																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD									
CATEGORY =====>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
S-ILS 23L	960	3/4	250	960	3/4	250	960	3/4	250	960	3/4	250								
S-LOC 23L	1140	3/4	430	1140	3/4	430	1140	3/4	430	1140	3/4	430								
SIDESTEP 23R	1140	1	428	1140	1	428	1140	1 1/2	428	1140	2	428								
CIRCLING	1220	1	504	1220	1	504	1220	1 1/2	504	1400	2 1/4	684								
NOTES: CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 23L. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 23L CAT A/B VISIBILITY TO 1 MILE. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART PROFILE NOTE: USE I-LSW DME WHEN ON THE LOCALIZER COURSE. (SEE FORM 8260-10)																				
CITY AND STATE DETROIT, MI				ELEVATION: 716 AIRPORT NAME: WILLOW RUN			TDZE: 23L 710 TDZE: 23R 712		FACILITY IDENTIFIER: I-LSW		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 23L, AMDT 8 7 JANUARY 2016				SUP: AMDT: 7C DATED 05/06/2010					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION				Bearings, headings, courses, 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 in feet RVR.	
ILS - STANDARD					
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29					
NOTES, (CONT.): CHART PLANVIEW NOTE: GPS OR RADAR REQUIRED. CHART PLANVIEW NOTE: LIMIT INITIAL APPROACH TO 210 KIAS. *LOC ONLY					
CITY AND STATE		ELEVATION: 716	TDZE: 23L 710	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
DETROIT, MI		AIRPORT NAME:	TDZE: 23R 712	I-LSW	ILS OR LOC RWY 23L, AMDT 8
		WILLOW RUN			7 JANUARY 2016
					SUP: 10
					AMDT: 7C
					DATED: 05/06/2010

QUALITY
10
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KYIP

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
KUPNE	010	KUPNE	FC	FB		149.3	DXO					AA 02400	AB 210	E A
KUPNE	020	VRADO	CF	FB		149.3	ILSW					AA 02400		EE B
	010	VRADO	IF	FB			ILSW					AA 02400 GI 02000		E I
	020	FELUS	CF	FB		233.0	ILSW	3.00		SVM		GI 02000 GS 02000		E F
	030	RW23L	CF	FO		233.0	ILSW	3.00				AT 00759		GY M
	040		CA	FB		232.7						AA 01400		M
	050	SVM	DF	FO					R			AA 03000		VY
	060	SVM	HM	FO		114.0			L			AA 03000		VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
DXO	N421247.29	W0832159.99
SVM	N422431.09	W0833538.05
KUPNE	N422624.33	W0832624.99
FELUS	N421721.66	W0832721.10
VRADO	N422128.82	W0832127.87
ILSW (LOC)	N421343.40	W0833233.24

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW23L	N421441.34	W0833110.48	00702	57.2

QUALITY
12
CHECKED

CITY AND STATE
DETROIT, MI

ELEVATION: 716 TDZE: 23L 710
AIRPORT NAME: TDZE: 23R 712
WILLOW RUN

FACILITY
IDENTIFIER:
I-LSW

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 23L, AMDT 8
7 JANUARY 2016

SUP:
AMDT: 7C
DATED: 05/06/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KYIP

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
KUPNE	010	KUPNE	FC	FB		149.3	DXO					AA 02400	AB 210	E A
KUPNE	020	VRADO	CF	FB		149.3	ILSW					AA 02400		EE B
	010	VRADO	IF	FB			ILSW					AA 02400		E I
	020	FELUS	CF	FB		233.0	ILSW			SVM		AA 02000		E F
	030	RW23L	CF	FO		233.0	ILSW	3.01				AT 00759		GY M
	040		CA	FB		232.7						AA 01400		M
	050	SVM	DF	FO					R			AA 03000		VY
	060	SVM	HM	FO		114.0			L			AA 03000		VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
DXO	N421247.29	W0832159.99
SVM	N422431.09	W0833538.05
KUPNE	N422624.33	W0832624.99
FELUS	N421721.66	W0832721.10
VRADO	N422128.82	W0832127.87
ILSW (LOC)	N421343.40	W0833233.24

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW23L	N421441.34	W0833110.48	00702	57.2

QUALITY
12
CHECKED

CITY AND STATE

DETROIT, MI

ELEVATION: 716

TDZE: 23L 710

AIRPORT NAME:

TDZE: 23R 712

WILLOW RUN

FACILITY
IDENTIFIER:

I-LSW

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC RWY 23L, AMDT 8

7 JANUARY 2016

SUP:

AMDT:

7C

DATED:

05/06/2010

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW23L						
KUPNE (IAF)		PLYMT (FB)		153.94 / 4.65			2400		CLIMB TO 3000 DIRECT ZAVEX AND HOLD.						
PLYMT (IF)		FELUS (FB)		217.82 / 6.00			2000								
FELUS (FAF)		RW23L (MAP) (FO)		232.75 / 3.90											
RW23L (MAP)		959 MSL		232.75			3000								
959 MSL		ZAVEX (FO)							ADDITIONAL FLIGHT DATA: HOLD NW, RT, 120.53 INBOUND. CHART FAS OBST: 832 TWR 421637N/0832744W AAO 915 421630N/0832645W DISTANCE TO THLD FROM 249 HAT: 0.63 NM. CHART VDP AT 1.07 MILES TO RW23L* *LNAV ONLY. WAAS CHANNEL # 81910 REFERENCE PATH ID: W23A CHART CIRCLING ICON. LTP HAE: 179.6 M						
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)										MAG VAR: 6W EPOCH YEAR: 1995					
2. PROFILE STARTS AT KUPNE															
3. FAC: 232.75 FAF: FELUS DIST FAF TO MAP: 3.90 THLD: 3.90															
4. MIN. ALT: PLYMT 2400, FELUS 2000															
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:															
6. MIN GS INCPT: 2000 GS ALT AT: FELUS 2000 OM: MM: IM:															
7. GS ANGLE: 3.00 TCH: 57.2 34:1 IS NOT CLEAR															
8. MSA FROM: RW23L 3100															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @						
CATEGORY >>>>>	A		B		C			D			E				
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	959	3/4	249	959	3/4	249	959	3/4	249	959	3/4	249			
LNAV/VNAV DA	974	3/4	264	974	3/4	264	974	3/4	264	974	3/4	264			
LNAV MDA	1100	3/4	390	1100	3/4	390	1100	3/4	390	1100	3/4	390			
CIRCLING	1220	1	504	1220	1	504	1220	1 1/2	504	1400	2 1/4	684			
NOTES: CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV. @ CAT D 800-2 1/4 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F). CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 MILE AND LNAV CAT A/B TO 1 MILE, CAT C/D TO 1 1/8 MILE. CHART NOTE: DME/DME RNP-0.3 NA. (SEE FORM 8260-10)															
CITY AND STATE DETROIT, MI		ELEVATION: 716 TDZE: 710 AIRPORT NAME: WILLOW RUN		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23L, AMDT 2 7 JANUARY 2016				SUP: AMDT: 1B DATED 07/23/2015					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

NOTES, (CONT.):
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: LIMIT INITIAL APPROACH TO 210 KIAS.

CITY AND STATE
DETROIT, MI

ELEVATION: 716 TDZE: 710
AIRPORT NAME:
WILLOW RUN

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 23L, AMDT 2
7 JANUARY 2016

SUP: 
AMDT: 1B
DATED: 07/23/2015

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KYIP
RUNWAY	RW23L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	421441.3385N
LTP/FTP LONGITUDE	0833110.4750W
LTP/FTP ELLIPSOIDAL HEIGHT	+01796
FPAP LATITUDE	421340.2100N
FPAP LONGITUDE	0833237.7695W
THRESHOLD CROSSING HEIGHT (TCH)	00057.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.50
LENGTH OFFSET	0448
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

<u>CRC REMAINDER</u>	83C0BF01
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02138
FPAP ORTHOMETRIC HEIGHT	+02138

CITY AND STATE

DETROIT, MI

ELEVATION: 716

TDZE: 710

AIRPORT NAME:

WILLOW RUN

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 23L, AMDT 2

7 JANUARY 2016

SUP:

AMDT:

DATED:

 QUALITY
10
CHECKED

1B

07/23/2015

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KYIP

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
KUPNE	010	KUPNE	IF	FB										E A
KUPNE	020	PLYMT	TF	FB	1.0	148.0						AA 02400		EE B
	010	PLYMT	IF	FB								AA 02400		E I
	020	FELUS	TF	FB	0.5	217.8				RW23L		AA 02000		E F
	030	RW23L	TF	FO	0.3	232.8		3.00				AT 00759		GY M
	040		CA	FB		232.8						AA 00959		M
	050	ZAVEX	DF	FO								AA 03000		EY
	060	ZAVEX	HM	FO		120.5			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FELUS	N421721.66	W0832721.10
KUPNE	N422624.33	W0832624.99
PLYMT	N422227.87	W0832305.29
ZAVEX	N420801.70	W0834040.09

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW23L	N421441.34	W0833110.48	00702	57

CITY AND STATE DETROIT, MI	ELEVATION: 716 TDZE: 710	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 23L, AMDT 2 7 JANUARY 2016	SUP: 4
	AIRPORT NAME: WILLOW RUN			AMDT: 1B
				DATED: 07/23/2015

QUALITY
4
CHECKED

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LNAV: RW28 CLIMBING RIGHT TURN TO 3500 DIRECT SWARM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, LT, 237.30 INBOUND. FAS OBST: 1059 AAO 372211N/0790140W. 1139 AAO 372115N/0790023W. CHART LYNCHBURG REGIONAL/PRESTON GLENN FIELD ASOS/ATIS, 119.8.							
SWARM		CALVN (FO)		167.95 / 7.19				3000									
VOUCH (IAF)		CALVN (NOPT) (FB)		291.88 / 4.74				3000									
CALVN (IF/IAF)		LARNC (FB)		282.97 / 6.10				2700									
LARNC (FAF)		RW28 (MAP) (FO)		282.89 / 5.74													
RW28 (MAP)		1339 MSL		282.89													
1339 MSL		SWARM (FO)						3500									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E CALVN, RT, 282.97 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 282.89 FAF: LARNC DIST FAF TO MAP: 5.74 THLD: 5.74 4. MIN. ALT: CALVN 3000, LARNC 2700 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR 8. MSA FROM: RW28 5500																	
										MAG VAR: 9W				EPOCH YEAR: 2005			
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		X					
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LNAV MDA	1460	1	521	1460	1	521		NA			NA						
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: USE LYNCHBURG REGIONAL/PRESTON GLENN FIELD ALTIMETER SETTING, WHEN NOT RECEIVED USE FARMVILLE ALTIMETER SETTING AND INCREASE ALL MDA 160 FEET. CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. CHART NOTE: PROCEDURE NA AT NIGHT.																	
CITY AND STATE		ELEVATION: 939 TDZE: 939				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
LYNCHBURG, VA		AIRPORT NAME: FALWELL						RNAV (GPS) RWY 28, ORIG-B 7 JANUARY 2016				AMDT: ORIG-A					
												DATED 10/15/2015					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION												Bearings, headings, courses, 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 in feet RVR.																																																																																																																																																																																																															
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CITY AND STATE LYNCHBURG, VA					ELEVATION: 939 TDZE: 939 AIRPORT NAME: FALWELL			FACILITY IDENTIFIER: RNAV		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 28, ORIG-B 7 JANUARY 2016			SUP: AMDT: ORIG-A DATED: 10/15/2015																																																																																																																																																																																																														

QUALITY
4
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, 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 in feet RVR.										
TERMINAL ROUTES										MISSED APPROACH										
FROM		TO			COURSE AND DISTANCE				ALTITUDE											
											ADDITIONAL FLIGHT DATA:									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																				
2. _____																				
3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD ____																				
4. MIN. ALT _____																				
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A										
CATEGORY =====>																				
	MDA	VIS		MDA	VIS		MDA	VIS		MDA	VIS		MDA	VIS						
NOTES:																				
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																				
CITY AND STATE DILLINGHAM, AK		ELEVATION: 82 TDZE: 82 AIRPORT NAME: DILLINGHAM			FACILITY IDENTIFIER: DLG			PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: VOR/DME RWY 19, AMDT 7C, 09/18/2014					SUP AMD'T 7B DATE 07/24/2014							



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HATh, 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 in feet RVR.									
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FROM		TO		COURSE AND DISTANCE				ALTITUDE											
										ADDITIONAL FLIGHT DATA:									
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3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD ____																			
4. MIN. ALT _____																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																			
CITY AND STATE MIDDLETON ISLAND, AK				ELEVATION: 100 TDZE: 100 AIRPORT NAME: MIDDLETON ISLAND				FACILITY IDENTIFIER: MDO		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 20, AMDT 6B, 07/24/2014						SUP AMDT 6A DATE 01/10/2013			

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HATh, 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 in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE											
										ADDITIONAL FLIGHT DATA:									
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2. ____																			
3. FAC ____ FAF ____ DIST FAF TO MAP ____ THLD ____																			
4. MIN. ALT ____																			
8. MSA FROM:										MAG VAR: EPOCH YEAR:									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																			
CITY AND STATE TALLADEGA, AL				ELEVATION: 529 TDZE: 511 AIRPORT NAME: TALLADEGA MUNI				FACILITY IDENTIFIER: TDG				PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: VOR/DME RWY 4, AMDT 6A, 06/26/2014						SUP AMDT 6 DATE 06/27/2013	



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE											
										ADDITIONAL FLIGHT DATA:									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																			
2. _____																			
3. FAC _____ FAF _____ DIST FAF TO MAP _____ THLD _____																			
4. MIN. ALT _____																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																			
CITY AND STATE LAKE VILLAGE, AR				ELEVATION: 125 TDZE: AIRPORT NAME: LAKE VILLAGE MUNI				FACILITY IDENTIFIER: GLH				PROCEDURE NO./AMDТ NO./EFFECTIVE DATE: VOR/DME-B, AMDT 6B, 09/17/2015				SUP AMDT 6A DATE 07/25/2013			

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW05 CLIMB TO 4000 DIRECT DULLS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 231.26 INBOUND. FAS OBST: 1580 AAO 355115N/0924224W 2150 AAO 354918N/0924422W 1900 AAO 355047N/0924336W DISTANCE TO THLD FROM 399 HAT: 1.02 NM. WAAS CHANNEL # 62838 REFERENCE PATH ID: W05A CHART CIRCLING ICON. CHART FLIPPIN AWOS-3. CHART SHIRLEY A & B MOA *LNAV ONLY LTP HAE: 253.5 M							
MERLS (IF/IAF)		ASUME (FB)		051.03 / 3.00				3500									
ASUME		JENKA (FB)		051.06 / 3.10				3000									
JENKA (FAF)		HIBIT/4.00 NM TO RW05 (FB)		051.09 / 1.51													
HIBIT/4.00 NM TO RW05		RW05 (MAP) (FO)		051.09 / 4.00													
RW05 (MAP)		1353 MSL		051.09				4000									
1353 MSL		DULLS (FO)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW MERLS, RT, 051.03 INBOUND, 4000 FT. IN LIEU OF PT (IAF) 3. FAC: 051.09 FAF: JENKA DIST FAF TO MAP: 5.51 THLD: 5.51 4. MIN. ALT: MERLS 4000, ASUME 3500, JENKA 3000, HIBIT/4.00 NM TO RW05 2440* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3000 GS ALT AT: JENKA 3000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.45 TCH: 56.0 34:1 IS NOT CLEAR 8. MSA FROM: _____										MAG VAR: 0E		EPOCH YEAR: 2020					
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		☒ X					
CATEGORY =====>		A		B		C		D		E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS
LPV DA	1353	1 1/4	399	1353	1 1/4	399	1353	1 1/4	399		NA						
LNAV/VNAV DA	1938	3	984	1938	3	984	1938	3	984		NA						
LNAV MDA	1920	1 1/4	966	1920	1 1/2	966	1920	3	966		NA						
CIRCLING	1920	1 1/4	956	1920	1 1/2	956	1920	3	956		NA						
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: CIRCLING NA SE OF RWY 5-23. CHART NOTE: NIGHT LANDING: RWY 23 NA. CHART NOTE: BARO-VNAV NA. (SEE FORM 8260-10)																	
CITY AND STATE		ELEVATION: 964 TDZE: 954				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
MARSHALL, AR		AIRPORT NAME:						RNAV (GPS) RWY 5, ORIG 4 FEBRUARY 2016				AMDT: NONE					
		SEARCY COUNTY										DATED					



RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART NOTE: USE FLIPPIN ALTIMETER SETTING; WHEN NOT RECEIVED, USE HARRISON ALTIMETER SETTING AND INCREASE ALL CATS LPV DA TO 1396 AND VISIBILITY 1/8 MILE, LNAV/VNAV ALL CATS DA TO 1981, AND ALL MDA 60 FT.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

TAA	FROM	TO	ALT
1.	321/30 CW 141/30 (NOPT)	141/20 CW 321/20	4100
2.	321/20 CW 141/20	MERLS (IF/IAF) (FB)	4000
3.	141/30 CW 321/30	MERLS (IF/IAF) (FO)	4000



CITY AND STATE

MARSHALL, AR

ELEVATION: 964

TDZE: 954

AIRPORT NAME:

SEARCY COUNTY

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 5, ORIG

4 FEBRUARY 2016

SUP:

AMDT: NONE

DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	4A5
RUNWAY	RW05
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W05A
LTP/FTP LATITUDE	355342.8995N
LTP/FTP LONGITUDE	0923941.7540W
LTP/FTP ELLIPSOIDAL HEIGHT	+02535
FPAP LATITUDE	355438.8765N
FPAP LONGITUDE	0923816.3445W
THRESHOLD CROSSING HEIGHT (TCH)	00056.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.45
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 A51A73CB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+02815
FPAP ORTHOMETRIC HEIGHT	+02815

QUALITY
16
CHECKED

CITY AND STATE MARSHALL, AR	ELEVATION: 964 AIRPORT NAME: SEARCY COUNTY	TDZE: 954 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 5, ORIG 4 FEBRUARY 2016	SUP:
				AMDT: NONE
				DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33	Bearings, headings, courses, 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 in feet RVR.
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ARINC SUMMARY - 4A5

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
MERLS	010	MERLS	HF	FO		051.0			R			AA 04000		EE A
	010	MERLS	IF	FB								AA 04000		E I
	011	ASUME	TF	FB	0.5	051.0						AA 03500		E
	020	JENKA	TF	FB	0.5	051.1						AA 03000		E F
	021	HIBIT	TF	FB	0.3	051.1		3.45				AA 02440 GS 02445		E S
	030	RW05	TF	FO	0.3	051.1		3.45				AT 00980		GY M
	040		CA	FB		051.1						AA 01353		M
	050	DULLS	DF	FO								AA 04000		EY
	060	DULLS	HM	FO		231.3			R			AA 04000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
ASUME	N354818.01	W0924756.30
DULLS	N360134.73	W0922739.85
HIBIT	N355112.04	W0924331.65
JENKA	N355014.87	W0924458.65
MERLS	N354624.50	W0925048.63

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW05	N355342.90	W0923941.75	00924	56



CITY AND STATE MARSHALL, AR	ELEVATION: 964 TDZE: 954 AIRPORT NAME: SEARCY COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 5, ORIG 4 FEBRUARY 2016	SUP: AMDT: NONE DATED:

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, 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 in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW23 CLIMB TO 4000 DIRECT MERLS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 051.03 INBOUND. CHART FAS OBST: 1454 TREE 355447N/0923642W DISTANCE TO THLD FROM 548 HAT: 1.46 NM. WAAS CHANNEL # 69238 REFERENCE PATH ID: W23A CHART CIRCLING ICON. CHART FLIPPIN AWOS-3. CHART SHIRLEY A & B MOA. LTP HAE: 265.6 M									
DULLS (IF/IAF)		RUNGS (FB)		231.26 / 6.10				3000											
RUNGS (FAF)		RW23 (MAP) (FO)		231.20 / 5.77															
RW23 (MAP)		1364 MSL		231.20				4000											
1364 MSL		MERLS (FO)																	
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NE DULLS, RT, 231.26 INBOUND, 4000 FT. IN LIEU OF PT (IAF) 3. FAC: <u>231.20</u> FAF: RUNGS DIST FAF TO MAP: <u>5.77</u> THLD: <u>5.77</u> 4. MIN. ALT: DULLS 4000, RUNGS 3000 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>3000</u> GS ALT AT: RUNGS 3000 OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.25</u> TCH: <u>44.1</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u> </u>																MAG VAR: 0E		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		X									
CATEGORY >>>>>>		A		B		C		D		E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
LPV DA	1512	1 3/4	548	1512	1 3/4	548	1512	1 3/4	548		NA								
LNAV/VNAV DA	1973	4	1009	1973	4	1009	1973	4	1009		NA								
LNAV MDA	1760	1	796	1760	1 1/4	796	1760	2 1/2	796		NA								
CIRCLING	1760	1	796	1760	1 1/4	796	1760	2 1/2	796		NA								
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: CIRCLING NA SE OF RWY 5-23. CHART NOTE: BARO-VNAV NA. (SEE FORM 8260-10)																			
CITY AND STATE		ELEVATION: 964 TDZE: 964				FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
MARSHALL, AR		AIRPORT NAME:				RNAV		RNAV (GPS) RWY 23, ORIG				AMDT: NONE							
		SEARCY COUNTY						4 FEBRUARY 2016				DATED							



**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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NOTES, (CONT.):

CHART NOTE: USE FLIPPIN ALTIMETER SETTING; WHEN NOT RECEIVED, USE HARRISON ALTIMETER SETTING AND INCREASE ALL CATS LPV DA TO 1555 AND VISIBILITY 1/8 MILE, LNAV/VNAV ALL CATS DA TO 2016, AND ALL MDA 60 FT, LNAV CAT B/C AND CIRCLING CAT C VISIBILITY 1/4 MILE.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

TAA	FROM	TO	ALT
1.	141/30 CW 321/30 (NOPT)	DULLS (IF/IAF) (FB)	4000
2.	321/30 CW 141/30	DULLS (IF/IAF) (FO)	4000

QUALITY
16
CHECKED

CITY AND STATE

MARSHALL, AR

ELEVATION: 964

TDZE: 964

AIRPORT NAME:

SEARCY COUNTY

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 23, ORIG

4 FEBRUARY 2016

SUP:

AMDT: NONE

DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	4A5
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	355407.7165N
LTP/FTP LONGITUDE	0923903.8770W
LTP/FTP ELLIPSOIDAL HEIGHT	+02656
FPAP LATITUDE	355311.7355N
FPAP LONGITUDE	0924029.2730W
THRESHOLD CROSSING HEIGHT (TCH)	00044.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.25
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

DBAE2FE6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+02937
FPAP ORTHOMETRIC HEIGHT	+02937

QUALITY
16
CHECKED

CITY AND STATE

MARSHALL, AR

ELEVATION: 964

TDZE: 964

AIRPORT NAME:

SEARCY COUNTY

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 23, ORIG

4 FEBRUARY 2016

SUP:

AMDT:

NONE

DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

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ARINC SUMMARY - 4A5

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
DULLS	010	DULLS	HF	FO		231.3			R			AA 04000		EE A
	010	DULLS	IF	FB								AA 04000		E I
	020	RUNGS	TF	FB	0.5	231.3						AA 03000		E F
	030	RW23	TF	FO	0.3	231.2		3.25				AT 01008		GY M
	040		CA	FB		231.2						AA 01364		M
	050	MERLS	DF	FO								AA 04000		EY
	060	MERLS	HM	FO		051.0			R			AA 04000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
DULLS	N360134.73	W0922739.85
MERLS	N354624.50	W0925048.63
RUNGS	N355745.23	W0923331.52

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW23	N355407.72	W0923903.88	00964	44.1

CITY AND STATE
MARSHALL, AR

ELEVATION: 964 TDZE: 964
AIRPORT NAME:
SEARCY COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 23, ORIG
4 FEBRUARY 2016

SUP: 4
AMDT: NONE
DATED:

QUALITY
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

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City, State	Airport	Effective Date	Amdt. No.
MARSHALL, AR	SEARCY COUNTY	4 FEBRUARY 2016	ORIG

TAKEOFF MINIMUMS:

RWY 5: STANDARD WITH MINIMUM CLIMB OF 448 FT PER NM TO 1500, OR 1800-3 FOR VCOA.

RWY 23: STANDARD WITH MINIMUM CLIMB OF 354 FT PER NM TO 2200, OR 1800-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 5: CLIMB HEADING 051.14 TO 2100 BEFORE PROCEEDING ON COURSE.

RWY 23: CLIMB HEADING 231.15 TO 2600 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 5: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS SEARCY COUNTY AIRPORT AT OR ABOVE 2600 BEFORE PROCEEDING ON COURSE.

RWY 23: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS SEARCY COUNTY AIRPORT AT OR ABOVE 2600 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 5: RISING TERRRAIN BEGINNING 3 FT FROM DER, 300 FT LEFT AND 138 FT RIGHT OF CENTERLINE, UP TO 978 FT MSL. RISING TERRRAIN BEGINNING 67 FT FROM DER, 389 FT RIGHT OF CENTERLINE, UP TO 990 FT MSL. TREES AND POLE BEGINNING 24 FT FROM DER, 263 FT LEFT AND 338 FT RIGHT OF CENTERLINE, UP TO 137 FT AGL/1039 FT MSL. SIGN 26 FT FROM DER, 197 FT LEFT OF CENTERLINE, 3 FT AGL/966 FT MSL. TREES BEGINNING 303 FT FROM DER, 71 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/1020 FT MSL. TREES, POLES AND T-L TOWERS BEGINNING 976 FT FROM DER, 95 FT RIGHT OF CENTERLINE, UP TO 107 FT AGL/1034 FT MSL. TREES, POLES AND T-L TOWERS BEGINNING 990 FT FROM DER, 273 FT LEFT OF CENTERLINE, UP TO 99 FT AGL/1025 FT MSL. TREE 3006 FT FROM DER, 688 FT LEFT OF CENTERLINE, 97 FT AGL/1050 FT MSL. TREES, POLES AND TOWER BEGINNING 4742 FT FROM DER, 1301 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1114 FT MSL. TREES BEGINNING 4776 FT FROM DER, 1514 FT RIGHT OF CENTERLINE, UP TO 92 FT AGL/1107 FT MSL.

NOTE: RWY 23: RISING TERRAIN BEGINNING 4 FT FROM DER, 144 FT LEFT AND 180 FT RIGHT OF CENTERLINE, UP TO 945 FT MSL. TREES BEGINNING 7 FT FROM DER, 401 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/995 FT MSL. TREES BEGINNING 43 FT FROM DER, 274 FT RIGHT OF CENTERLINE, UP TO 29 FT AGL/967 FT MSL. TREES BEGINNING 70 FT FROM DER, 491 FT RIGHT OF CENTERLINE, UP TO 62 FT AGL/1003 FT MSL. TREES BEGINNING 395 FT FROM DER, 269 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/965 FT MSL.

CONTROLLING OBSTACLES:

RWY 5: 1296 FT MSL TOWER 355455.43N-0923819.56W.

RWY 23: 1430 FT MSL TREE 355207.51N-0924100.09W (CLIMB GRADIENT), 2250 FT MSL TOWER 354902.38N-0924427.14W (CLIMB-TO-ALTITUDE)

RWY 5/23: (VCOA) 2262 FT MSL TOWER, 355216.13N-0923911.45W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 5/23 - 2262 FT MSL TOWER, 355216.13N-0923911.45W.



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

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City, State	Airport	Effective Date	Amdt. No.
MARSHALL, AR	SEARCY COUNTY	4 FEBRUARY 2016	ORIG

REMARKS:

FLIGHT INSPECTED BY:

ROBIN CAUDLE *Digitally signed by*
JACOB POWERS FICO 10/08/2015
Nov 17, 2015

REQUIRED EFFECTIVE DATE:

CONCURRENT WITH K4A5 RNAV
(GPS) RWY 5/23, ORIG

DEVELOPED BY:

BRIAN J BICKETT *Digitally signed by*
BRIAN J BICKETT AJV-5422 08/14/2015
Aug 14, 2015

APPROVED BY:

GEORGE GONZALEZ AJV-5420 *Digitally signed by*
JACOB POWERS
Nov 17, 2015

COORDINATED WITH:

ALPA, AOPA, NBAA, AMGR, ZME.

CHANGES:

ORIGINAL

REASONS:



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE				ALTITUDE									
										ADDITIONAL FLIGHT DATA:									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																			
2. _____																			
3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD ____																			
4. MIN. ALT _____																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																			
CITY AND STATE WALNUT RIDGE, AR				ELEVATION: 279 TDZE: AIRPORT NAME: WALNUT RIDGE RGNL				FACILITY IDENTIFIER: ARG				PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: VOR-A, AMDT 16A, 08/28/2008				SUP AMD'T 16 DATE 10/05/2000			

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

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City, State	Airport	Effective Date	Amdt. No.
SANTA YNEZ, CA	SANTA YNEZ	4 FEBRUARY 2016	2

TAKEOFF MINIMUMS:

RWY 8, 500 – 2 ¼ WITH MINIMUM CLIMB OF 251 FT PER NM TO 1700 OR STANDARD WITH MINIMUM CLIMB OF 317 FT PER NM TO 1300.
RWY 26, 300 – 2 OR STANDARD WITH MINIMUM CLIMB OF 226 FT PER NM TO 1100.

TEXTUAL DEPARTURE PROCEDURES:

RWY 8, CLIMBING LEFT TURN HEADING 260 TO 6000, INTERCEPT GVO VORTAC R-307 TO ORCUT INT/MQO 30.00 DME. DO NOT EXCEED 150 KIAS UNTIL ESTABLISHED ON GVO VORTAC R-307.

RWY 26, CLIMB HEADING 264.23 TO 6000, INTERCEPT GVO VORTAC R-307 TO ORCUT INT/MQO 30.00 DME.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 8, SIGN 23 FT FROM DER, 81 FT LEFT OF CENTERLINE, 28 FT AGL/675 FT MSL. BUILDING 384 FT FROM DER, 240 FT LEFT OF CENTERLINE, 7 FT AGL/684 FT MSL. TREE 973 FT FROM DER, 592 FT RIGHT OF CENTERLINE, 57 FT AGL/704 FT MSL.

NOTE: RWY 26, BUILDINGS AND HANGARS BEGINNING 9 FT FROM DER, 330 FT RIGHT OF CENTERLINE, UP TO 27 FT AGL/693 FT MSL. TREE 299 FT FROM DER, 415 RIGHT OF CENTERLINE, 24 FT AGL/664 FT MSL. FENCE 315 FT FROM DER, 407 FT LEFT OF CENTERLINE, 2 FT AGL/666 FT MSL. BUILDING 353 FT FROM DER, 277 FT RIGHT OF CENTERLINE, 20 FT AGL/684 FT MSL. TREES 391 FT FROM DER, 233 FT LEFT OF CENTERLINE, 56 FT AGL/696 FT MSL. TREES 435 FT FROM DER, 305 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/698 FT MSL. FENCE 749 FT FROM DER, 273 FT RIGHT OF CENTERLINE, 7 FT AGL/678 FT MSL. TREE 859 FT FROM DER, 427 FT RIGHT OF CENTERLINE, 54 FT AGL/688 FT MSL. TREE 1271 FT FROM DER, 296 FT LEFT OF CENTERLINE, 47 FT AGL/687 FT MSL.

CONTROLLING OBSTACLES:

RWY 8:
1124 FT AAO 343618.22N/1200158.62W, 1440 FT AAO 343830.55N/1200003.31W

RWY 26:
929 FT AAO 343706.00N/1200639.00W

OBSTACLES MANDATING ROUTE DEVELOPMENT:
RWY 8, 26: 6795 FT AAO 344245.00N/1194839.00W.



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

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City, State	Airport	Effective Date	Amdt. No.
SANTA YNEZ, CA	SANTA YNEZ	4 FEBRUARY 2016	2

REMARKS:

FLIGHT INSPECTED BY:

JOEL F HAWKLEY FICO *Digitally signed by* **ALLAN WILL** 11/12/2015
Digitally signed by Nov 20, 2015

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

COLTON CROWDER

COLTON CROWDER Oct 13, 2015 AJV-543 10/13/2015

APPROVED BY:

Digitally signed by

STEVE SZUKALA **ALLAN WILL** AJV-543
Nov 18, 2015

COORDINATED WITH:

CHANGES:

1. REMOVED FROM TAKEOFF MINIMUMS: "RWY 8, CAT C/D 1100-2 OR STD WITH A MIN. CLIMB OF 280' PER NM TO 2000." ADDED "RWY 8, 500-2 ¼ WITH MINIMUM CLIMB OF 251 FT PER NM TO 1700 OR STANDARD WITH MINIMUM CLIMB OF 317 FT PER NM TO 1300."
2. ADDED TAKEOFF NOTES.
3. CHANGED RWY 8 DP FROM "TURN LEFT, CLIMB TO 6000 HEADING 260 AND V27 TO ORCUT INT." TO "CLIMBING LEFT TURN HEADING 260 TO 6000, INTERCEPT GVO VORTAC R-307 TO ORCUT INT/MQO 30.00 DME."
4. ADDED TAKEOFF MINIMUMS TO RWY 26: "300-2 OR STANDARD WITH MINIMUM CLIMB OF 226 FT PER NM TO 1100."
5. ADDED SPEED RESTRICTION TO RWY 8 DEPARTURE INSTRUCTIONS: "DO NOT EXCEED 150 KIAS UNTIL ESTABLISHED ON GVO VORTAC R-307."

REASONS:

- 1., 4. CEILING, VISIBILITY, CLIMB GRADIENT, AND CLIMB-TO ALTITUDE CHANGED DUE TO NEW OBSTACLE ANALYSIS.
2. LOW CLOSE-IN OBSTACLES FOUND IN THE ICA.
3. VERBIAGE CHANGED PER EXAMPLE IN 8260.46E 7.A(2).
5. HIGH TERRAIN IN TURN SEGMENT, 150 KIAS TURN RADIUS USED TO MITIGATE.



RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES																MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE						ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW08 CLIMB TO 10000 DIRECT KVERN AND ON TRACK 041.18 TO WITNE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 218.29 INBOUND. CHART FAS OBST: 5462 POLE 395204N/1044035W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 0.93 MILES TO RW08* *LNAV ONLY. WAAS CHANNEL # 82228 REFERENCE PATH ID: W08A LTP HAE: 1613.9 M									
LIPPS (IF)				OWNER (FB)				082.32 / 10.00						7000											
OWNER (FAF)				RW08 (MAP) (FO)				082.46 / 5.00																	
RW08 (MAP)				5554 MSL				082.46																	
5554 MSL				KVERN (FB)																					
KVERN				WITNE (FO)				041.18 / 11.20						10000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT LIPPS 3. FAC: 082.46 FAF: OWNER DIST FAF TO MAP: 5.00 THLD: 5.00 4. MIN. ALT: LIPPS 10000, OWNER 7000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 7000 GS ALT AT: OWNER 7000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 52.1 34:1 IS CLEAR 8. MSA FROM: RW08 9700																MAG VAR: 8E					EPOCH YEAR: 2015				
MINIMUMS																									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD															
CATEGORY =====>		A			B			C			D			E											
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA										
LPV DA	5554	2400	200	5554	2400	200	5554	2400	200	5554	2400	200													
LNAV/VNAV DA	5833	6000	479	5833	6000	479	5833	6000	479	5833	6000	479													
LNAV MDA	5720	2400	366	5720	2400	366	5720	3500	366	5720	3500	366													
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25C (-13F) OR ABOVE 47C (117F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 7. CHART NOTE: DME/DME RNP -0.3 NA. (CONTINUED ON PAGE 2)																									
CITY AND STATE				ELEVATION: 5434 TDZE: 5354				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
DENVER, CO				AIRPORT NAME:								RNAV (GPS) Y RWY 8, AMDT 1B				AMDT: 1A									
				DENVER INTL								4 FEBRUARY 2016				DATED 12/11/2014									



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

NOTES, (CONT.):
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT C/D VISIBILITY TO RVR 5500.



CITY AND STATE DENVER, CO	ELEVATION: 5434 TDZE: 5354 AIRPORT NAME: DENVER INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 8, AMDT 1B 4 FEBRUARY 2016	SUP:
				AMDT: 1A
				DATED: 12/11/2014

**STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDEN
RUNWAY	RW08
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	395239.2005N
LTP/FTP LONGITUDE	1043944.0265W
LTP/FTP ELLIPSOIDAL HEIGHT	+16139
FPAP LATITUDE	395238.0700N
FPAP LONGITUDE	1043710.1500W
THRESHOLD CROSSING HEIGHT (TCH)	00052.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

06F3AB43

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+16320
FPAP ORTHOMETRIC HEIGHT	+16320

QUALITY
18
CHECKED

CITY AND STATE

DENVER, CO

ELEVATION: 5434

TDZE: 5354

AIRPORT NAME:

DENVER INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 8, AMDT 1B

4 FEBRUARY 2016

SUP:

AMDT:

1A

DATED:

12/11/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KDEN

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	LIPPS	IF	FB								AA 10000		E I
	020	OWNER	TF	FB	0.5	082.3				RW08		AA 07000		E F
	030	RW08	TF	FO	0.3	082.5		3.00				AT 05406		GY M
	040		CA	FB		082.5						AA 05554		M
	050	KVERN	DF	FB										E
	060	WITNE	TF	FO	1.0	041.2						AA 10000		EY
	070	WITNE	HM	FO		218.3			R			AA 10000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
KVERN	N395229.49	W1042040.90
LIPPS	N395245.90	W1045913.17
OWNER	N395241.80	W1044613.94
WITNE	N395948.46	W1040939.44

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW08	N395239.20	W1043944.03	05354	52.1

QUALITY
18
CHECKED

CITY AND STATE DENVER, CO	ELEVATION: 5434 TDZE: 5354	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Y RWY 8, AMDT 1B 4 FEBRUARY 2016	SUP:
	AIRPORT NAME: DENVER INTL	RNAV		AMDT: 1A
				DATED: 12/11/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33						Bearings, headings, courses, 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 in feet RVR.					
TERMINAL ROUTES												MISSED APPROACH					
FROM			TO			COURSE AND DISTANCE			ALTITUDE			RNP: DA CLIMB TO 10000 ON TRACK 082.53 TO KVERN AND ON TRACK 041.18 TO WITNE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 218.29 INBOUND. CHART FAS OBST: 5447 POLE 395248N/1044040W DISTANCE TO THLD FROM 373 HAT: 1.01 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S CHART MANDATORY 11000 AT BERNZ CHART MANDATORY 11000 AT BBOOK #TCH 5406.4 MSL (DO NOT CHART)					
BBOOK (IF)			BEEKY (TF) (FB) (RNP 1.00)			262.46 / 4.02			10000								
BEEKY			HABRI (RF) (FB) (RNP 1.00)			(2.90 NM RADIUS CW (CFFTK))/4.39			9000								
HABRI			JAPDI (TF) (FB) (RNP 1.00)			349.10 / 2.65			8600								
JAPDI			LOOLU (RF) (FB) (RNP 1.00)			(2.50 NM RADIUS CW (CFFTN))/4.07			8000								
LIPPS (IF)			LOOLU (TF) (FB) (RNP 1.00)			082.32 / 6.49			8000			(SEE FORM 8260-10)					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT LOOLU 3. FAC: 082.46 FAF: _____ DIST FAF TO MAP: 5.00 THLD: _____ 4. MIN. ALT: LOOLU 8000 OWNER 7000 5. DIST TO THLD FROM OM: 5.00 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 7000 GS ALT AT: OWNER 7000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 52.1# 34:1 IS CLEAR 8. MSA FROM: RW08 9800												MAG VAR: 8E			EPOCH YEAR: 2015		
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT									ALTERNATE: N A			STANDARD					
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
AUTHORIZATION REQUIRED																	
RNP 0.10 DA	5727	4000	373	5727	4000	373	5727	4000	373	5727	4000	373					
RNP 0.30 DA	5777	5000	423	5777	5000	423	5777	5000	423	5777	5000	423					
NOTES: CHART NOTE: GPS REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}) CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.10 ALL CATS VISIBILITY TO RVR 6000 AND RNP 0.30																	
(CONTINUED ON PAGE 2)																	
CITY AND STATE				ELEVATION: 5434 TDZE: 5354				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:	
DENVER, CO				AIRPORT NAME:								RNAV (RNP) Z RWY 8, ORIG-B				AMDT: ORIG-A	
				DENVER INTL								4 FEBRUARY 2016				DATED 12/11/2014	



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, 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 in feet RVR.	
RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33				
TERMINAL ROUTES, (CONT.):				
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
BERNZ (IF)	BRTSN (TF) (FB) (RNP 1.00)	262.46 / 3.00	10000	
BRTSN	LOOLU (RF) (FB) (RNP 1.00)	(2.77 NM RADIUS CCW (CFFTR))/8.70	8000	
LOOLU	OWNER (TF) (FB) (RNP 1.00)	082.41 / 3.51	7000	
OWNER (FAF)	RW08 (MAP) (TF) (FO)	082.46 / 5.00		
RW08 (MAP)	KVERN (TF) (FB) (RNP 1.00)	082.53 / 14.67		
KVERN	WITNE (TF) (FO) (RNP 1.00)	041.18 / 11.20	10000	
NOTES, (CONT.): ALL CATS VISIBILITY TO 1 3/8 MILE CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS CHART PLANVIEW NOTE: RADAR REQUIRED CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 7, EXCEPT FOR ARRIVALS AT BERNZ AND BBOOK CHART PLANVIEW NOTE BERNZ: MAX 210 KIAS CHART PLANVIEW NOTE AT BBOOK: MAX 210 KIAS CHART PLANVIEW NOTE AT JAPDI: MAX 200 KIAS CHART PLANVIEW NOTE ADJACENT TO BERNZ IAF: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO BBOOK IAF: RF REQUIRED. CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -25C (-13F) OR ABOVE 47C (117F).				
CITY AND STATE	ELEVATION: 5434 TDZE: 5354	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
DENVER, CO	AIRPORT NAME:	RNAV	RNAV (RNP) Z RWY 8, ORIG-B 4 FEBRUARY 2016	AMDT: ORIG-A
	DENVER INTL			DATED: 12/11/2014



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KDEN

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
BBOOK	010	BBOOK	IF	FB								AT 11000	AB 210	E B
BBOOK	020	BEEKY	TF	FB	1.0							AA 10000		E
BBOOK	030	HABRI	RF	FB	1.0				R	CFFTK	02.90	AA 09000		E
BBOOK	040	JAPDI	TF	FB	1.0							AA 08600	AB 200	E
BBOOK	050	LOOLU	RF	FB	1.0				R	CFFTN	02.50	AA 08000		EE
BERNZ	010	BERNZ	IF	FB								AT 11000	AB 210	E B
BERNZ	020	BRTSN	TF	FB	1.0							AA 10000		E
BERNZ	030	LOOLU	RF	FB	1.0				L	CFFTR	02.77	AA 08000		EE
LIPPS	010	LIPPS	IF	FB										E B
LIPPS	020	LOOLU	TF	FB	1.0							AA 08000		EE
	010	LOOLU	IF	FB								AA 08000		E I
	020	OWNER	TF	FB	1.0					RW08		AA 07000		E F
	030	RW08	TF	FO	0.3			3.00				AT 05406		GY M
	040	KVERN	TF	FB	1.0									E M
	050	WITNE	TF	FO	1.0							AA 10000		EY
	060	WITNE	HM	FO		218.3			R			AA 10000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
WITNE	N395948.46	W1040939.44
BBOOK	N394439.67	W1044456.83
BEEKY	N394441.51	W1045009.16
BERNZ	N395814.70	W1044650.18
BRTSN	N395816.08	W1045044.44
CFFTK	N394735.62	W1045007.55
CFFTN	N395013.28	W1045048.94
CFFTR	N395529.74	W1045045.99
HABRI	N394726.87	W1045352.97
JAPDI	N395005.70	W1045403.41
KVERN	N395229.49	W1042040.90
LIPPS	N395245.90	W1045913.17
LOOLU	N395243.40	W1045047.54
OWNER	N395241.80	W1044613.94

RUNWAYS

QUALITY
12
CHECKED

CITY AND STATE DENVER, CO	ELEVATION: 5434 TDZE: 5354	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: DENVER INTL	RNAV	RNAV (RNP) Z RWY 8, ORIG-B 4 FEBRUARY 2016	AMDT: ORIG-A
				DATED: 12/11/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION				Bearings, headings, courses, 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 in feet RVR.	
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE					
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33					
RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH	
RW08	N395239.20	W1043944.03	05354	52	
CITY AND STATE DENVER, CO		ELEVATION: 5434 TDZE: 5354 AIRPORT NAME: DENVER INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 8, ORIG-B 4 FEBRUARY 2016	
				SUP:	
				AMDT: ORIG-A	
				DATED: 12/11/2014	



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE											
										ADDITIONAL FLIGHT DATA:									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																			
2. _____																			
3. FAC _____ FAF _____ DIST FAF TO MAP _____ THLD _____																			
4. MIN. ALT _____																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																			
CITY AND STATE APALACHICOLA, FL				ELEVATION: 20 TDZE: 20 AIRPORT NAME: APALACHICOLA RGNL-CLEVE RANDOLPH FIELD				FACILITY IDENTIFIER: AAF		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 32, AMDT 2B, 08/20/2015						SUP AMDT 2A DATE 07/24/2014			

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HATh, 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 in feet RVR.										
TERMINAL ROUTES										MISSED APPROACH										
FROM			TO			COURSE AND DISTANCE				ALTITUDE										
										ADDITIONAL FLIGHT DATA:										
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)										MAG VAR: _____ EPOCH YEAR: _____										
2. _____																				
3. FAC ____ FAF ____ DIST FAF TO MAP ____ THLD ____																				
4. MIN. ALT ____																				
8. MSA FROM: _____																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A										
CATEGORY =====>																				
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS					
NOTES:																				
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																				
CITY AND STATE FORT PIERCE, FL			ELEVATION: 23 AIRPORT NAME: ST LUCIE COUNTY INTL			TDZE:		FACILITY IDENTIFIER: FPR		PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: NDB-A, ORIG-D (09/20/2012)					SUP AMD'T DATE			ORIG-C 10/20/2011		

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE											
										ADDITIONAL FLIGHT DATA:									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																			
2. _____																			
3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD _____																			
4. MIN. ALT _____																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																			
CITY AND STATE OLNEY-NOBLE, IL				ELEVATION: 482 TDZE: AIRPORT NAME: OLNEY-NOBLE				FACILITY IDENTIFIER: SAM				PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: VOR/DME-A, AMDT 9A, 02/07/2013				SUP AMDT 9 DATE 04/08/2010			



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION GPS OR VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, 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 in feet RVR.																									
TERMINAL ROUTES										MISSED APPROACH																									
FROM		TO		COURSE AND DISTANCE				ALTITUDE																											
										ADDITIONAL FLIGHT DATA:																									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																																			
2. ____																																			
3. FAC ____ FAF ____ DIST FAF TO MAP ____ THLD ____																																			
4. MIN. ALT ____																																			
8. MSA FROM: ____										MAG VAR: ____ EPOCH YEAR: ____																									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																				ALTERNATE: N A															
CATEGORY =====>																																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS																
NOTES:																																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																																			
CITY AND STATE URBANA, IL				ELEVATION: 735 TDZE: AIRPORT NAME: FRASCA FIELD				FACILITY IDENTIFIER: CMI				PROCEDURE NO./AMDТ NO./EFFECTIVE DATE: VOR/DME OR GPS-B, AMDТ 6A, 03/10/2011						SUP AMDТ 6 DATE 1/10/1991																	



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE				ALTITUDE									
												ADDITIONAL FLIGHT DATA:							
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																			
2. _____																			
3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD _____																			
4. MIN. ALT _____																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																			
CITY AND STATE NORTHAMPTON, MA				ELEVATION: 121 TDZE: AIRPORT NAME: NORTHAMPTON				FACILITY IDENTIFIER: BAF				PROCEDURE NO./AMDТ NO./EFFECTIVE DATE: VOR-A, AMDT 5, 05/07/2009				SUP VOR OR GPS-A			
																AMDT 4			
																DATE 03/15/2007			



ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, 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 in feet RVR.											
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION															
TERMINAL ROUTES						MISSED APPROACH									
FROM	TO	COURSE AND DISTANCE	ALTITUDE	ILS: DA LOC: 6.13 MILES AFTER PHONY INT/I-VQO 6.78 DME OR AT I-VQO 0.65 DME FIX CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 DIRECT PVC NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000. OR AS DIRECTED BY ATC ALTERNATE MA: CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 2000 DIRECT LFV VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000. ADDITIONAL FLIGHT DATA: HOLD W, LT, 075.30 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S LFV VOR/DME, LT, 360.00 INBOUND FAS OBST: 64 SHIP 420340N/0701443W CHART CIRCLING ICON. CHART IN PLANVIEW: LFV VOR/DME CHART VDP AT 1.51 DME* DISTANCE VDP TO THLD 0.85 MILES. * LOC ONLY											
DUNKK INT (IAF)	WOMEK INT/I-VQO 14.79 DME	153.96 / 10.66 (BOS R-154)	3000												
WOMEK INT/I-VQO 14.79 DME (IF)	PHONY INT/I-VQO 6.78 DME	075.30 / 8.00 (I-VQO)	2000												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT WOMEK INT/I-VQO 14.79 DME 3. FAC: <u>075.30</u> FAF: PHONY INT/I-VQO 6.78 DME DIST FAF TO MAP: <u>6.13</u> THLD: <u>6.13</u> 4. MIN. ALT: WOMEK 3000, PHONY 2000, FABIX INT/I-VQO 2.85 DME 660*## 5. DIST TO THLD FROM OM: <u> </u> - MM: <u> </u> - IM: <u> </u> 150 HAT: <u> </u> - 100 HAT: <u> </u> - GS ANT: <u>762</u> 6. MIN GS INCPT: <u>2000</u> GS ALT AT: PHONY 2000 OM: <u> </u> - MM: <u> </u> - IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 8. MSA FROM: PVC NDB 1800						MAG VAR: 16W EPOCH YEAR: 1995									
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A X											
CATEGORY >>>>>	A		B		C		D		E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 07	208	3/4	200	208	3/4	200		NA			NA				
S-LOC 07	660	3/4	652	660	3/4	652		NA			NA				
CIRCLING	660	1	652	660	1	652		NA			NA				
FABIX FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)															
S-LOC 07	320	3/4	312	320	3/4	312		NA			NA				
CIRCLING	460	1	452	660	1	652		NA			NA				
NOTES: CHART NOTE: ADF REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DUNKK ON V141 NORTH WESTBOUND. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS CAT A AND B. CHART NOTE: VDP NA WHEN USING HYANNIS ALTIMETER SETTING. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 8 TDZE: 8		FACILITY IDENTIFIER: I-VQO		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
PROVINCETOWN, MA		AIRPORT NAME:		PROVINCETOWN MUNI		ILS OR LOC RWY 7, AMDT 9 4 FEBRUARY 2016				AMDT: 8B					
										DATED 06/27/2013					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, 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 in feet RVR.		
ILS - STANDARD					
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29					
NOTES, (CONT.): CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HYANNIS ALTIMETER SETTING: INCREASE DA TO 271, INCREASE ALL MDA 80 FEET. INCREASE S-LOC 07 CAT B VISIBILITY 1/4 MILE. CHART NOTE: FOR INOPERATIVE MALSF WHEN USING HYANNIS ALTIMETER SETTING, INCREASE S-ILS 07 CAT A/B VISIBILITY TO 7/8 MILE. CHART PROFILE NOTE: ## 740 WHEN USING HYANNIS ALTIMETER SETTING.					
CITY AND STATE PROVINCETOWN, MA	ELEVATION: 8	TDZE: 8	FACILITY IDENTIFIER: I-VQO	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 7, AMDT 9 4 FEBRUARY 2016	SUP:
	AIRPORT NAME:				AMDT: 8B
	PROVINCETOWN MUNI				DATED: 06/27/2013



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, 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 in feet RVR.



CITY AND STATE PROVINCETOWN, MA	ELEVATION: 8 AIRPORT NAME: PROVINCETOWN MUNI	TDZE: 8	FACILITY IDENTIFIER: I-VQO	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 7, AMDT 9 4 FEBRUARY 2016	SUP:
					AMDT: 8B
					DATED: 06/27/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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ARINC SUMMARY - KPVC

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
DUNKK	010	DUNKK	FC	FB		154.0	BOS					AA 03000		E A
DUNKK	020	WOMEK	CF	FB		154.0	IVQO					AA 03000		EE B
	010	WOMEK	IF	FB			IVQO					AA 03000 GI 02000		E I
	020	PHONY	CF	FB		075.0	IVQO	3.00		PVC		GI 02000 GS 02000		E F
	030	RW07	CF	FO		075.0	IVQO	3.00				AT 00048		GY M
	040		CA	FB		075.3						AA 00800		M
	050	PVC	DF	FO					L			AA 02000		NY
	060	PVC	HM	FO		075.3			L			AA 02000		NE

POINTS

POINT NAME	LATITUDE	LONGITUDE
BOS	N422126.82	W0705922.37
IVQO (DME)	N420433.37	W0701250.89
DUNKK	N420454.15	W0703922.83
PHONY	N420103.29	W0702038.95
WOMEK	N415657.01	W0702951.62
IVQO (LOC)	N420432.12	W0701247.71
PVC	N420407.74	W0701324.40

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW07	N420411.39	W0701334.61	00008	40

QUALITY
15
CHECKED

CITY AND STATE PROVINCETOWN, MA	ELEVATION: 8 AIRPORT NAME: PROVINCETOWN MUNI	TDZE: 8 FACILITY IDENTIFIER: I-VQO	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 7, AMDT 9 4 FEBRUARY 2016	SUP:
				AMDT: 8B
				DATED: 06/27/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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ARINC SUMMARY - KPVC

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
DUNKK	010	DUNKK	FC	FB		154.0	BOS					AA 03000		E A
DUNKK	020	WOMEK	CF	FB		154.0	IVQO					AA 03000		EE B
	010	WOMEK	IF	FB			IVQO					AA 03000		E I
	020	PHONY	CF	FB		075.0	IVQO			PVC		AA 02000		E F
	021	FABIX	CF	FB		075.0	IVQO	3.01				AA 00740		E S
	030	RW07	CF	FO		075.0	IVQO	3.01				AT 00048		GY M
	040		CA	FB		075.3						AA 00800		M
	050	PVC	DF	FO					L			AA 02000		NY
	060	PVC	HM	FO		075.3			L			AA 02000		NE

POINTS

POINT NAME	LATITUDE	LONGITUDE
BOS	N422126.82	W0705922.37
IVQO (DME)	N420433.37	W0701250.89
DUNKK	N420454.15	W0703922.83
FABIX	N420304.00	W0701607.01
PHONY	N420103.29	W0702038.95
WOMEK	N415657.01	W0702951.62
IVQO (LOC)	N420432.12	W0701247.71
PVC	N420407.74	W0701324.40

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW07	N420411.39	W0701334.61	00008	40

QUALITY
15
CHECKED

CITY AND STATE
PROVINCETOWN, MA

ELEVATION: 8 TDZE: 8
AIRPORT NAME:
PROVINCETOWN MUNI

FACILITY
IDENTIFIER:
I-VQO

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 7, AMDT 9
4 FEBRUARY 2016

SUP:
AMDT: 8B
DATED: 06/27/2013

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW07 CLIMB TO 3000 DIRECT WULGA AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 255.47 INBOUND. CHART FAS OBST: 106 TREE 420345N/0701300W DISTANCE TO THLD FROM 200 HAT: 0.50 NM. CHART VDP AT 0.98 MILES TO RW07* *LNAV ONLY. WAAS CHANNEL # 86738 REFERENCE PATH ID: W07A CHART CIRCLING ICON. LTP HAE: -25.2 M											
DUNKK	ONRAE (FB)	159.09 / 6.16	3000												
CRACO	PEPDE (FB)	347.05 / 22.88	3000												
ONRAE (IAF)	WOMEK (NOPT) (FB)	147.60 / 4.55	3000												
PEPDE (IAF)	WOMEK (NOPT) (FB)	345.16 / 4.99	3000												
WOMEK (IF/IAF)	PHONY (FB)	075.10 / 8.00	2000												
PHONY (FAF)	FABIX/2.20 NM TO RW07 (FB)	075.22 / 3.93													
(SEE FORM 8260-10)															
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD W WOMEK, RT, 075.10 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: <u>075.22</u> FAF: PHONY <u> </u> DIST FAF TO MAP: <u>6.13</u> THLD: <u>6.13</u> 4. MIN. ALT: WOMEK 3000, PHONY 2000, FABIX/2.20 NM TO RW07 740* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2000</u> GS ALT AT: PHONY 2000 <u> </u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 34:1 IS CLEAR 8. MSA FROM: RW07 1800															
				MAG VAR: 16W EPOCH YEAR: 1995											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A <u> </u> STANDARD @ <u> </u>											
CATEGORY >>>>>	A		B		C		D		E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	208	3/4	200	208	3/4	200		NA			NA				
LNAV/VNAV DA	268	3/4	260	268	3/4	260		NA			NA				
LNAV MDA	360	3/4	352	360	3/4	352		NA			NA				
CIRCLING	460	1	452	660	1	652		NA			NA				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV CATS A AND B. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HYANNIS ALTIMETER SETTING: INCREASE (SEE FORM 8260-10)															
CITY AND STATE PROVINCETOWN, MA		ELEVATION: 8 TDZE: 8 AIRPORT NAME: PROVINCETOWN MUNI		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 1 4 FEBRUARY 2016				SUP: AMDT: ORIG-D DATED 06/27/2013					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, 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 in feet RVR.																	
RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33																				
TERMINAL ROUTES, (CONT.):																				
<table><tr><td>FROM</td><td>TO</td><td>COURSE AND DISTANCE</td><td>ALTITUDE</td></tr><tr><td>FABIX/2.20 NM TO RW07</td><td>RW07 (MAP) (FO)</td><td>075.22 / 2.20</td><td></td></tr><tr><td>RW07 (MAP)</td><td>208 MSL</td><td>075.22</td><td></td></tr><tr><td>208 MSL</td><td>WULGA (FO)</td><td></td><td>3000</td></tr></table>					FROM	TO	COURSE AND DISTANCE	ALTITUDE	FABIX/2.20 NM TO RW07	RW07 (MAP) (FO)	075.22 / 2.20		RW07 (MAP)	208 MSL	075.22		208 MSL	WULGA (FO)		3000
FROM	TO	COURSE AND DISTANCE	ALTITUDE																	
FABIX/2.20 NM TO RW07	RW07 (MAP) (FO)	075.22 / 2.20																		
RW07 (MAP)	208 MSL	075.22																		
208 MSL	WULGA (FO)		3000																	
NOTES, (CONT.): LPV DA TO 271, INCREASE LNAV/VNAV DA TO 331, AND CAT A/B VISIBILITY 1/8 MILE AND ALL MDA 80 FEET. CHART NOTE: FOR INOPERATIVE MALSF WHEN USING HYANNIS ALTIMETER SETTING, INCREASE LPV CAT A/B VISIBILITY TO 7/8 MILE. CHART NOTE: BARO/VNAV AND VDP NA WHEN USING HYANNIS ALTIMETER SETTING.																				
QUALITY 24 CHECKED																				
CITY AND STATE PROVINCETOWN, MA	ELEVATION: 8 AIRPORT NAME: PROVINCETOWN MUNI	TDZE: 8	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 1 4 FEBRUARY 2016																
				SUP:																
				AMDT: ORIG-D																
				DATED: 06/27/2013																

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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CITY AND STATE PROVINCETOWN, MA	ELEVATION: 8 AIRPORT NAME: PROVINCETOWN MUNI	TDZE: 8	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 1 4 FEBRUARY 2016	SUP:
					AMDT: ORIG-D
					DATED: 06/27/2013

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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QUALITY
24
CHECKED

CITY AND STATE PROVINCETOWN, MA	ELEVATION: 8	TDZE: 8	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 1 4 FEBRUARY 2016	SUP:
	AIRPORT NAME:				AMDT: ORIG-D
	PROVINCETOWN MUNI				DATED: 06/27/2013

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPVC
RUNWAY	RW07
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W07A
LTP/FTP LATITUDE	420411.3870N
LTP/FTP LONGITUDE	0701334.6085W
LTP/FTP ELLIPSOIDAL HEIGHT	-00252
FPAP LATITUDE	420456.8810N
FPAP LONGITUDE	0701151.7220W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1680
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 86731A83

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00023
FPAP ORTHOMETRIC HEIGHT	+00023

QUALITY
24
CHECKED

CITY AND STATE PROVINCETOWN, MA	ELEVATION: 8 TDZE: 8 AIRPORT NAME: PROVINCETOWN MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 1 4 FEBRUARY 2016	SUP:
				AMDT: ORIG-D
				DATED: 06/27/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

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ARINC SUMMARY - KPVC

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
CRACO	010	CRACO	IF	FB										E
CRACO	020	PEPDE	TF	FB	2.0	347.1						AA 03000		E A
CRACO	030	WOMEK	TF	FB	1.0	345.2						AA 03000		EE B
DUNKK	010	DUNKK	IF	FB										E
DUNKK	020	ONRAE	TF	FB	2.0	159.1						AA 03000		E A
DUNKK	030	WOMEK	TF	FB	1.0	147.6						AA 03000		EE B
WOMEK	010	WOMEK	HF	FO		075.1			R			AA 03000		EE A
	010	WOMEK	IF	FB								AA 03000		E I
	020	PHONY	TF	FB	0.5	075.1				RW07		AA 02000		E F
	021	FABIX	TF	FB	0.3	075.2		3.00				AA 00740 GS 00748		E S
	030	RW07	TF	FO	0.3	075.2		3.00				AT 00048		GY M
	040		CA	FB		075.2						AA 00208		M
	050	WULGA	DF	FO								AA 03000		EY
	060	WULGA	HM	FO		255.5			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CRACO	N413239.30	W0701136.60
DUNKK	N420454.15	W0703922.83
FABIX	N420304.00	W0701607.01
ONRAE	N415958.46	W0703425.21
PEPDE	N415240.10	W0702626.12
PHONY	N420103.29	W0702038.95
WOMEK	N415657.01	W0702951.62
WULGA	N420928.46	W0700134.56

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW07	N420411.39	W0701334.61	00008	40

QUALITY
24
CHECKED

CITY AND STATE PROVINCETOWN, MA	ELEVATION: 8	TDZE: 8	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 1 4 FEBRUARY 2016	SUP:
	AIRPORT NAME: PROVINCETOWN MUNI				AMDT: ORIG-D
					DATED: 06/27/2013

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 6.00 MILES AFTER ZOWEE/BAL 6.87 DME/RADAR CLIMB TO 2500 ON HEADING 155 AND BAL VORTAC R-153 TO DUDDS/BAL 12.00 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2600 ON HEADING 335 UNTIL DIRECT EMI VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, LT, 332.91 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S EMI VORTAC, LT, 359.00 INBOUND. CHART FAS OBST: 339 TREE 391157N/0764054W 720 AAO 391618N/0764425W CHART IN PLANVIEW: EMI VORTAC. CHART VDP AT 2.07 DME* DISTANCE VDP TO THLD 1.16 MILES. *LOC ONLY					
KRENE/BAL 12.86 DME/RADAR (IF)		MNKEY/BAL 9.87 DME		155.22 / 3.00 (I-UQC)				2500							
MNKEY/BAL 9.87 DME		ZOWEE/BAL 6.87 DME/RADAR		155.22 / 3.00 (I-UQC)				2100							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT KRENE/BAL 12.86 DME/RADAR 3. FAC: 155.22 FAF: ZOWEE/BAL 6.87 DME/RADAR DIST FAF TO MAP: 6.00 THLD: 6.00 4. MIN. ALT: KRENE 3000, MNKEY 2500, ZOWEE 2100, ADCOK/BAL 3.39 DME 980* 5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1100 6. MIN GS INCPT: 2100 GS ALT AT: ZOWEE 2100 OM: - MM: - IM: - 7. GS ANGLE: 3.00 TCH: 47.4 8. MSA FROM: BAL VORTAC 180-270 2200, 270-180 2600										MAG VAR: 11W		EPOCH YEAR: 2000			
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		ILS: STANDARD		LOC: STANDARD			
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 15L	544	1 3/8	402	544	1 3/8	402		NA			NA				
S-LOC 15L	560	5500	418	560	5500	418		NA			NA				
CIRCLING	640	1	497	660	1	517		NA			NA				
NOTES: CHART NOTE: DME FROM BAL VORTAC. SIMULTANEOUS RECEPTION OF I-UQC AND BAL DME REQUIRED. CHART NOTE: DME REQUIRED. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 15R. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED. CHART PLANVIEW NOTE: RADAR REQUIRED.															
CITY AND STATE		ELEVATION: 143 TDZE: 142				FACILITY IDENTIFIER: I-UQC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
BALTIMORE, MD		AIRPORT NAME:						ILS OR LOC RWY 15L, AMDT 4				AMDT: 3B			
		BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL						02/04/2016				DATED 08/21/2014			



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KBWI

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
KRENE	010	KRENE	IF	FB								AA 03000		E B
KRENE	020	MNKEY	CF	FB		155.2	IUQC					AA 02500		EE
	010	MNKEY	IF	FB			IUQC					AA 02500 GI 02100		E I
	020	ZOWEE	CF	FB		155.0	IUQC	3.00		BAL		GI 02100 GS 02100		E F
	030	RW15L	CF	FO		155.0	IUQC	3.00				AT 00189		GY M
	040		VI	FB		155.0								M
	050	DUDDS	CF	FO		152.9	BAL					AA 02500		EY
	060	DUDDS	HM	FO		332.9			L			AA 02500		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
BAL	N391015.83	W0763940.52
DUDDS	N390048.21	W0763010.61
KRENE	N392058.90	W0764851.28
MNKEY	N391832.82	W0764635.51
ZOWEE	N391606.85	W0764419.83
IUQC (LOC)	N391029.40	W0763906.95

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW15L	N391114.54	W0763948.74	00142	47.4

QUALITY
15
CHECKED

CITY AND STATE
BALTIMORE, MD

ELEVATION: **143** TDZE: **142**
AIRPORT NAME:
**BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALL**

FACILITY
IDENTIFIER:
I-UQC

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
**ILS OR LOC RWY 15L, AMDT 4
02/04/2016**

SUP:
AMDT: **3B**
DATED: **08/21/2014**

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KBWI

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
KRENE	010	KRENE	IF	FB								AA 03000		E B
KRENE	020	MNKEY	CF	FB		155.2	IUQC					AA 02500		EE
	010	MNKEY	IF	FB			IUQC					AA 02500		E I
	020	ZOWEE	CF	FB		155.0	IUQC			BAL		AA 02100		E F
	021	ADCOK	CF	FB		155.0	IUQC	3.01				AA 00980		E S
	030	RW15L	CF	FO		155.0	IUQC	3.01				AT 00189		GY M
	040		VI	FB		155.0								M
	050	DUDDS	CF	FO		152.9	BAL					AA 02500		EY
	060	DUDDS	HM	FO		332.9			L			AA 02500		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
BAL	N391015.83	W0763940.52
DUDDS	N390048.21	W0763010.61
ADCOK	N391316.34	W0764141.56
KRENE	N392058.90	W0764851.28
MNKEY	N391832.82	W0764635.51
ZOWEE	N391606.85	W0764419.83
IUQC (LOC)	N391029.40	W0763906.95

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW15L	N391114.54	W0763948.74	00142	47.4

QUALITY
15
CHECKED

CITY AND STATE
BALTIMORE, MD

ELEVATION: **143** TDZE: **142**
AIRPORT NAME:
**BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALL**

FACILITY
IDENTIFIER:
I-UQC

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
**ILS OR LOC RWY 15L, AMDT 4
02/04/2016**

SUP:
AMDT: **3B**
DATED: **08/21/2014**

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, 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 in feet RVR.										
TERMINAL ROUTES										MISSED APPROACH							
FROM			TO			COURSE AND DISTANCE			ALTITUDE			ILS: DA LOC: 5.70 MILES AFTER JURTI/BAL 5.98 DME/RADAR CLIMB TO 2500 ON BAL VORTAC R-286 TO COLUM/BAL 11.35 DME/RADAR AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2600 ON HEADING 305 AND EMI VORTAC R-179 TO EMI VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 105.83 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S EMI VORTAC, LT, 359.00 INBOUND. CHART FAS OBST: 200 BLDG 391017N/0763713W CHART: 242 TOWER 390954N/0763618W CHART VDP AT 1.15 DME* DISTANCE VDP TO THLD 0.86 MILES. *LOC ONLY. CHART IN PLANVIEW: EMI VORTAC. CHART CIRCLING ICON. CHART: 735 CHIMMNEY/SMOKESTACK 391048N/0763220W					
HURTZ/BAL 12.11 DME/RADAR (IF)			JURTI/BAL 5.98 DME/RADAR			285.22 / 6.13 (I-OEH)			2000								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HURTZ 3. FAC: 285.22 FAF: JURTI/BAL 5.98 DME/RADAR DIST FAF TO MAP: 5.70 THLD: 5.70 4. MIN. ALT: HURTZ 2000, JURTI 2000, ZIXUS/BAL 2.28 DME 620* 5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 960 6. MIN GS INCPT: 2000 GS ALT AT: JURTI 2000 OM: - MM: - IM: - 7. GS ANGLE: 3.00 TCH: 55.0 8. MSA FROM: BAL VORTAC 180-270 2200, 270-180 2600										MAG VAR: 11W EPOCH YEAR: 2000							
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @						
CATEGORY =====>		A		B		C		D		E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
S-ILS 28**	343	2400	200	343	2400	200	343	2400	200	343	2400	200					
S-LOC 28	620	2400	477	620	2400	477	620	5000	477	620	5000	477					
CIRCLING	640	1	497	660	1	517	700	1 1/2	557	860	2 1/4	717					
ZIXUS FIX MINIMUMS (DME REQUIRED)																	
S-LOC 28	460	2400	317	460	2400	317	460	2400	317	460	2400	317					
CIRCLING	640	1	497	660	1	517	700	1 1/2	557	860	2 1/4	717					
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART NOTE: DME OR RADAR REQUIRED. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 28 CAT C/D VISIBILITY TO 1 3/8 MILE, AND INCREASE ZIXUS FIX S-LOC 28 CAT C/D VISIBILITY TO RVR 4500.																	
CITY AND STATE BALTIMORE, MD		ELEVATION: 143 TDZE: 143 AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL		FACILITY IDENTIFIER: I-OEH		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 28, AMDT 17, 02/04/2016						SUP:					
												AMDT: 16					
												DATED 09/25/2008					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, 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 in feet RVR.

QUALITY
6
CHECKED

CITY AND STATE

BALTIMORE, MD

ELEVATION: 143

TDZE: 143

AIRPORT NAME:

BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALL

FACILITY
IDENTIFIER:

I-OEH

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 28, AMDT 17, 02/04/2016

SUP:

AMDT: 16

DATED: 09/25/2008

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KBWI

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	HURTZ	IF	FB			IOEH					AA 02000 GI 02000		E I
	020	JURTI	CF	FB		285.0	IOEH	3.00		BAL		GI 02000 GS 02000		E F
	030	RW28	CF	FO		285.0	IOEH	3.00				AT 00185		GY M
	040	COLUM	CF	FO		285.8	BAL					AA 02500		EYM
	050	COLUM	HM	FO		105.8			L			AA 02500		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
BAL	N391015.83	W0763940.52
HURTZ	N390928.71	W0762408.21
COLUM	N391112.29	W0765412.98
JURTI	N390956.57	W0763159.94
IOEH (LOC)	N391029.82	W0764135.42

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW28	N391021.99	W0763918.48	00130	55.0

QUALITY
15
CHECKED

CITY AND STATE
BALTIMORE, MD

ELEVATION: **143** TDZE: **143**
AIRPORT NAME:
**BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALL**

FACILITY
IDENTIFIER:
I-OEH

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 28, AMDT 17, 02/04/2016

SUP:
AMDT: **16**
DATED: **09/25/2008**

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KBWI

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	HURTZ	IF	FB			IOEH					AA 02000		E I
	020	JURTI	CF	FB		285.0	IOEH			BAL		AA 02000		E F
	021	ZIXUS	CF	FB		285.0	IOEH	3.01				AA 00620		E S
	030	RW28	CF	FO		285.0	IOEH	3.01				AT 00185		GY M
	040	COLUM	CF	FO		285.8	BAL					AA 02500		EYM
	050	COLUM	HM	FO		105.8			L			AA 02500		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
BAL	N391015.83	W0763940.52
HURTZ	N390928.71	W0762408.21
COLUM	N391112.29	W0765412.98
JURTI	N390956.57	W0763159.94
ZIXUS	N391013.12	W0763644.60
IOEH (LOC)	N391029.82	W0764135.42

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW28	N391021.99	W0763918.48	00130	55.0

QUALITY
15
CHECKED

CITY AND STATE
BALTIMORE, MD

ELEVATION: 143 TDZE: 143
AIRPORT NAME:
BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALL

FACILITY
IDENTIFIER:
I-OEH

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 28, AMDT 17, 02/04/2016

SUP:
AMDT: 16
DATED: 09/25/2008

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, 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 in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.77 MILES AFTER ORIOL/BAL 5.76 DME/RADAR						
DUDDS/BAL 12.00 DME/RADAR (IF)		ORIOL/BAL 5.76 DME/RADAR		335.23 / 6.25 (I-BWI)				2000		CLIMB TO 3000 ON HEADING 335 AND BAL VORTAC R-337 TO KRENE/BAL 12.86 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 2600 ON HEADING 330 DIRECT EMI VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 157.39 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S EMI VORTAC, LT, 359.00 INBOUND. CHART IN PLANVIEW: EMI VORTAC. CHART FAS OBST: 197 TREE 391006N/0763902W. CHART VDP AT 1.25 DME* *LOC ONLY DISTANCE VDP TO THLD 1.18 MILES. CHART CIRCLING ICON.						
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 11W EPOCH YEAR: 2000						
2. PROFILE STARTS AT DUDDS/BAL 12.00 DME/RADAR																
3. FAC: 335.23 FAF: ORIOL/BAL 5.76 DME/RADAR DIST FAF TO MAP: 5.77 THLD: 5.77																
4. MIN. ALT: DUDDS 3000, ORIOL 2000, EXEVE/BAL 2.51 DME/RADAR 940*																
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 900																
6. MIN GS INCPT: 2000 GS ALT AT: ORIOL 2000 OM: - MM: - IM: -																
7. GS ANGLE: 3.00 TCH: 47.3																
8. MSA FROM: BAL VORTAC 180-270 2200, 270-180 2600																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		ILS: STANDARD		LOC: STANDARD								
CATEGORY =====>		A		B		C		D		E						
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 33R		333	4000	209	333	4000	209		NA			NA				
S-LOC 33R		540	4000	416	540	4000	416		NA			NA				
CIRCLING		640	1	497	660	1	517		NA			NA				
NOTES: CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART NOTE: DME FROM BAL VORTAC. SIMULTANEOUS RECEPTION OF I-BWI AND BAL DME REQUIRED. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 33L. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 33R. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 33R VISIBILITY TO RVR 5500. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED. *LOC ONLY																
CITY AND STATE BALTIMORE, MD		ELEVATION: 143 TDZE: 124 AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL				FACILITY IDENTIFIER: I-BWI		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 33R, AMDT 3, 02/04/2016				SUP: AMDT: 2C DATED 05/29/2014				

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KBWI

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	DUDDS	IF	FB			IBWI					AA 03000 GI 02000		E I
	020	ORIOI	CF	FB		335.0	IBWI	3.00		BAL		GI 02000 GS 02000		E F
	030	RW33R	CF	FO		335.0	IBWI	3.00				AT 00161		GY M
	040		VI	FB		335.0								M
	050	KRENE	CF	FO		337.4	BAL					AA 03000		EY
	060	KRENE	HM	FO		157.4			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
BAL	N391015.83	W0763940.52
DUDDS	N390048.21	W0763010.61
KRENE	N392058.90	W0764851.28
ORIOI	N390553.04	W0763451.52
IBWI (LOC)	N391119.76	W0763953.57

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW33R	N391034.45	W0763911.63	00114	47.3

QUALITY
15
CHECKED

CITY AND STATE
BALTIMORE, MD

ELEVATION: 143 TDZE: 124
AIRPORT NAME:
BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALL

FACILITY
IDENTIFIER:
I-BWI

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 33R, AMDT 3, 02/04/2016

SUP:
AMDT: 2C
DATED: 05/29/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KBWI

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	DUDDS	IF	FB			IBWI					AA 03000		E I
	020	ORIOLO	CF	FB		335.0	IBWI			BAL		AA 02000		E F
	021	EXEVE	CF	FB		335.0	IBWI	3.01				AA 00940		E S
	030	RW33R	CF	FO		335.0	IBWI	3.01				AT 00161		GY M
	040		VI	FB		335.0								M
	050	KRENE	CF	FO		337.4	BAL					AA 03000		EY
	060	KRENE	HM	FO		157.4			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
BAL	N391015.83	W0763940.52
DUDDS	N390048.21	W0763010.61
EXEVE	N390832.62	W0763718.93
KRENE	N392058.90	W0764851.28
ORIOLO	N390553.04	W0763451.52
IBWI (LOC)	N391119.76	W0763953.57

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW33R	N391034.45	W0763911.63	00114	47.3

QUALITY
15
CHECKED

CITY AND STATE

BALTIMORE, MD

ELEVATION: 143

TDZE: 124

AIRPORT NAME:

BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALLFACILITY
IDENTIFIER:

I-BWI

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 33R, AMDT 3, 02/04/2016

SUP:

AMDT:

2C

DATED:

05/29/2014

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW33R CLIMB TO 3000 DIRECT KRENE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 155.23 INBOUND. CHART FAS OBST: 214 TREE 391056N/0763916W DISTANCE TO THLD FROM 209 HAT: 0.55 NM. CHART VDP AT 1.12 MILES TO RW33R* WAAS CHANNEL # 69208 REFERENCE PATH ID: W33B LTP HAE: 2.1 M CHART CIRCLING ICON.								
DUDDS (IF)		ORIORL (FB)		335.33 / 6.25			2000										
ORIORL (FAF)		EXEVE/2.50 NM TO RW33R (FB)		335.28 / 3.27													
EXEVE/2.50 NM TO RW33R		RW33R (MAP) (FO)		335.28 / 2.50													
RW33R (MAP)		333 MSL		335.28			3000										
333 MSL		KRENE (FO)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT DUDDS 3. FAC: 335.28 FAF: ORIORL DIST FAF TO MAP: 5.77 THLD: 5.77 4. MIN. ALT: DUDDS 3000, ORIORL 2000, EXEVE/2.50 NM TO RW33R 940* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2000 GS ALT AT: ORIORL 2000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 47.3 34:1 IS CLEAR 8. MSA FROM: RW33R 2600										MAG VAR: 11W		EPOCH YEAR: 2000					
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD					
CATEGORY =====>		A		B		C		D		E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LPV DA	333	4000	209	333	4000	209		NA			NA						
LNAV/VNAV DA	406	4000	292	406	4000	292		NA			NA						
LNAV MDA	520	4000	396	520	4000	396		NA			NA						
CIRCLING	640	1	497	660	1	517		NA			NA						
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13C (-9F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5000. AND LNAV ALL CATS VISIBILITY TO RVR 5500. *LNAV ONLY (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 143 TDZE: 124		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:		SUP:									
BALTIMORE, MD		AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL				RNAV (GPS) RWY 33R, AMDT 4 02/04/2016		AMDT: 3A									
								DATED 05/29/2014									

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

NOTES, (CONT.):

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 33L.

CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV, ALL CATS.

CITY AND STATE

BALTIMORE, MD

ELEVATION: 143

TDZE: 124

AIRPORT NAME:

BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 33R, AMDT 4
02/04/2016

SUP:

AMDT: 3A

DATED: 05/29/2014



**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBWI
RUNWAY	RW33R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33B
LTP/FTP LATITUDE	391034.4480N
LTP/FTP LONGITUDE	0763911.6300W
LTP/FTP ELLIPSOIDAL HEIGHT	+00021
FPAP LATITUDE	391146.8015N
FPAP LONGITUDE	0764018.6235W
THRESHOLD CROSSING HEIGHT (TCH)	00047.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 956F586F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00348
FPAP ORTHOMETRIC HEIGHT	+00348

CITY AND STATE

BALTIMORE, MD

ELEVATION: 143

TDZE: 124

AIRPORT NAME:

BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALLFACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 33R, AMDT 4
02/04/2016

SUP:

AMDT:

DATED: 05/29/2014

 QUALITY
18
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KBWI

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	DUDDS	IF	FB								AA 03000		E I
	020	ORIOI	TF	FB	0.5	335.3				RW33R		AA 02000		E F
	021	EXEVE	TF	FB	0.3	335.3		3.00				AA 00940 GS 00957		E S
	030	RW33R	TF	FO	0.3	335.3		3.00				AT 00161		GY M
	040		CA	FB		335.3						AA 00333		M
	050	KRENE	DF	FO								AA 03000		EY
	060	KRENE	HM	FO		155.2			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
DUDDS	N390048.21	W0763010.61
EXEVE	N390832.62	W0763718.93
KRENE	N392058.90	W0764851.28
ORIOI	N390553.04	W0763451.52

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW33R	N391034.45	W0763911.63	00114	47.3



CITY AND STATE BALTIMORE, MD	ELEVATION: 143	TDZE: 124	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 33R, AMDT 4 02/04/2016	SUP:
	AIRPORT NAME:				AMDT: 3A
	BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL				DATED: 05/29/2014

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, 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 in feet RVR.										
TERMINAL ROUTES											MISSED APPROACH					
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW28 CLIMB TO 2500 DIRECT COLUM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 105.05 INBOUND. CHART FAS OBST: 214 TREE 391056N/0763916W CHART: 740 STACK 391053N/0763217W DISTANCE TO THLD FROM 200 HAT: 0.50 NM. CHART VDP AT 0.92 MILES TO RW28* *LNAV ONLY. WAAS CHANNEL # 48808 REFERENCE PATH ID: W28A CHART CIRCLING ICON. LTP HAE: 6.9M						
HURTZ (IF)		JURTI (FB)			285.38 / 6.13			2000								
JURTI (FAF)		ZIXUS/2.00 NM TO RW28 (FB)			285.30 / 3.70											
ZIXUS/2.00 NM TO RW28		RW28 (MAP) (FO)			285.30 / 2.00											
RW28 (MAP)		343 MSL			285.30			2500								
343 MSL		COLUM (FO)														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HURTZ 3. FAC: 285.30 FAF: JURTI DIST FAF TO MAP: 5.70 THLD: 5.70 4. MIN. ALT: HURTZ 2000, JURTI 2000, ZIXUS/2.00 NM TO RW28 820* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2000 GS ALT AT: JURTI 2000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS CLEAR 8. MSA FROM: RW28 2600											MAG VAR: 11W		EPOCH YEAR: 2000			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	343	2400	200	343	2400	200	343	2400	200	343	2400	200				
LNAV/VNAV DA	393	2400	250	393	2400	250	393	2400	250	393	2400	250				
LNAV MDA	480	2400	337	480	2400	337	480	2600	337	480	2600	337				
CIRCLING	640	1	497	660	1	517	700	1 1/2	557	860	2 1/4	717				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12C (11F) OR ABOVE 54C @ CAT D 800-2 1/4 (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. (CONTINUED ON PAGE 2)																
CITY AND STATE BALTIMORE, MD		ELEVATION: 143 TDZE: 143 AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 28, AMDT 2, 02/04/2016					SUP:				
												AMDT: 1				
												DATED 09/25/2008				



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

NOTES, (CONT.):

*RNAV ONLY

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNAV/VNAV ALL CATS VISIBILITY TO RVR 4500.

QUALITY
6
CHECKED

CITY AND STATE

BALTIMORE, MD

ELEVATION: 143

TDZE: 143

AIRPORT NAME:

BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 28, AMDT 2, 02/04/2016

SUP:

AMDT: 1

DATED: 09/25/2008

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBWI
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	391021.9880N
LTP/FTP LONGITUDE	0763918.4805W
LTP/FTP ELLIPSOIDAL HEIGHT	+00069
FPAP LATITUDE	391029.0895N
FPAP LONGITUDE	0764122.6260W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

4A8B71CE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00396
FPAP ORTHOMETRIC HEIGHT	+00396

QUALITY
6
CHECKED

CITY AND STATE

BALTIMORE, MD

ELEVATION: 143

TDZE: 143

AIRPORT NAME:

BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALLFACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 28, AMDT 2, 02/04/2016

SUP:

AMDT: 1

DATED: 09/25/2008

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KBWI

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	HURTZ	IF	FB								AA 02000		E I
	020	JURTI	TF	FB	0.5	285.4				RW28		AA 02000		E F
	021	ZIXUS	TF	FB	0.3	285.3		3.00				AA 00820 GS 00822		E S
	030	RW28	TF	FO	0.3	285.3		3.00				AT 00185		GY M
	040		CA	FB		285.3						AA 00343		M
	050	COLUM	DF	FO								AA 02500		EY
	060	COLUM	HM	FO		105.1			L			AA 02500		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
COLUM	N391112.29	W0765412.98
HURTZ	N390928.71	W0762408.21
JURTI	N390956.57	W0763159.94
ZIXUS	N391013.12	W0763644.60

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW28	N391021.99	W0763918.48	00130	55

QUALITY
6
CHECKED

CITY AND STATE BALTIMORE, MD	ELEVATION: 143 TDZE: 143	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Y RWY 28, AMDT 2, 02/04/2016	SUP:
	AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL			AMDT: 1
				DATED: 02/04/2008

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.							
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE			ALTITUDE		RNP: DA						
BILIT (IAF)		ZUKBU (TF) (FB) (RNP 1.00)		338.06 / 17.86			2000		CLIMB TO 2500 ON TRACK 285.21 TO COLUM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 105.05 INBOUND. CHART FAS OBST: 166 TREE 391054N/0763815W DISTANCE TO THLD FROM 378 HAT: 1.06 NM. #TCH 184.8 MSL (DO NOT CHART) ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S ROUTE TYPE: A,H CHART MANDATORY 11000 AT BILIT. CHART MANDATORY 6000 AT RAVNN. CHART MANDATORY 2000 AT HURTZ. CHART MANDATORY 2000 AT JURTI.						
RAVNN (IAF)		ZUKBU (TF) (FB) (RNP 1.00)		054.62 / 16.57			2000								
ZUKBU		HURTZ (TF) (FB) (RNP 1.00)		337.93 / 11.00			2000								
HURTZ (IF)		JURTI (TF) (FB) (RNP 1.00)		285.38 / 6.13			2000								
JURTI (FAF)		RW28 (MAP) (TF) (FO)		285.30 / 5.70			2000								
RW28 (MAP)		COLUM (TF) (FO) (RNP1.00)		285.21 / 11.74			2500								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HURTZ 3. FAC: <u>285.30</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: <u>HURTZ 2000, JURTI 2000</u> 5. DIST TO THLD FROM OM: <u>5.70</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>2000</u> GS ALT AT: <u>JURTI 2000</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>55.0#</u> 34:1 IS CLEAR 8. MSA FROM: <u>RW28 2600</u>										MAG VAR: 11W EPOCH YEAR: 2000					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD						
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.30 DA	521	4500	378	521	4500	378	521	4500	378	521	4500	378			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -12C (11F) OR ABOVE 54C (130F). CHART NOTE: GPS REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BILIT ON V308 EASTBOUND. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 143 TDZE: 143		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
BALTIMORE, MD		AIRPORT NAME:		BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL		RNAV (RNP) Z RWY 28, AMDT 1, 02/04/2016				AMDT: ORIG-B					
										DATED 06/30/2011					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33			Bearings, headings, courses, 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 in feet RVR.	
NOTES, (CONT.): CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RAVNN ON V379 WESTBOUND. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 1/4. CHART SPEED ICON IN PLANVIEW AT BILIT: MAX 250 KIAS.				
QUALITY 6 CHECKED				
CITY AND STATE BALTIMORE, MD	ELEVATION: 143 AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL	TDZE: 143	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 28, AMDT 1, 02/04/2016
				SUP:
				AMDT: ORIG-B
				DATED: 06/30/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33	Bearings, headings, courses, 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 in feet RVR.
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ARINC SUMMARY - KBWI

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
BILIT	010	BILIT	IF	FB								AT 11000	AB 250	E A
BILIT	020	ZUKBU	TF	FB	1.0							AA 02000		E
BILIT	030	HURTZ	TF	FB	1.0							AT 02000		EE B
RAVNN	010	RAVNN	IF	FB								AT 06000		E A
RAVNN	020	ZUKBU	TF	FB	1.0							AA 02000		E
RAVNN	030	HURTZ	TF	FB	1.0							AT 02000		EE B
	010	HURTZ	IF	FB								AT 02000		E I
	020	JURTI	TF	FB	1.0					RW28		AT 02000		E F
	030	RW28	TF	FO	0.3			3.00				AT 00185		GY M
	040	COLUM	TF	FO	1.0							AA 02500		EYM
	050	COLUM	HM	FO		105.1			L			AA 02500		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
BILIT	N384515.82	W0760357.59
HURTZ	N390928.71	W0762408.21
RAVNN	N384815.99	W0763104.91
COLUM	N391112.29	W0765412.98
JURTI	N390956.57	W0763159.94
ZUKBU	N390015.36	W0761625.23

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW28	N391021.99	W0763918.48	00130	55.0



CITY AND STATE BALTIMORE, MD	ELEVATION: 143 TDZE: 143 AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 28, AMDT 1 02/04/2016	SUP: AMDT: ORIG-B DATED: 06/30/2011
	MARSHALL			

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, 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 in feet RVR.																									
TERMINAL ROUTES										MISSED APPROACH																									
FROM		TO		COURSE AND DISTANCE				ALTITUDE																											
										ADDITIONAL FLIGHT DATA:																									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																																			
2. _____																																			
3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD _____																																			
4. MIN. ALT _____																																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____																									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																				ALTERNATE: N A															
CATEGORY =====>																																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS																
NOTES:																																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																																			
CITY AND STATE BALTIMORE, MD				ELEVATION: 146 TDZE: 142 AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL				FACILITY IDENTIFIER: BAL		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 28, AMDT 24, 10/05/2000						SUP VOR OR GPS AMDT 23 DATE 02/24/2000																			

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HATh, 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 in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE											
										ADDITIONAL FLIGHT DATA:									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																			
2. ____																			
3. FAC ____ FAF ____ DIST FAF TO MAP ____ THLD ____																			
4. MIN. ALT ____																			
8. MSA FROM: ____										MAG VAR: ____ EPOCH YEAR: ____									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																			
CITY AND STATE GAYLORD, MI				ELEVATION: 1328 TDZE: 1321 AIRPORT NAME: GAYLORD RGNL				FACILITY IDENTIFIER: GLR		PROCEDURE NO./AMDТ NO./EFFECTIVE DATE: VOR RWY 9, AMDT 2A, 08/21/2014						SUP AMDТ 2 DATE 05/03/2012			

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE											
										ADDITIONAL FLIGHT DATA:									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																			
2. _____																			
3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD _____																			
4. MIN. ALT _____																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																			
CITY AND STATE GRAND RAPIDS, MI		ELEVATION: 794 AIRPORT NAME: GERALD R. FORD INTL		TDZE: 790		FACILITY IDENTIFIER: VIO		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 35, AMDT 1A, 11/13/2014						SUP AMDT 1 DATE 07/02/2009					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HATh, 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 in feet RVR.																									
TERMINAL ROUTES										MISSED APPROACH																									
FROM		TO		COURSE AND DISTANCE				ALTITUDE																											
										ADDITIONAL FLIGHT DATA:																									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																																			
2. _____																																			
3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD _____																																			
4. MIN. ALT _____																																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____																									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																				ALTERNATE: N A															
CATEGORY =====>																																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS																
NOTES:																																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																																			
CITY AND STATE MUSKEGON, MI				ELEVATION: 629 AIRPORT NAME: MUSKEGON COUNTY				TDZE:				FACILITY IDENTIFIER: MKG				PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: VOR-A, AMDT 21, 05/29/2014						SUP AMDT 20 DATE 02/16/2006													



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, 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 in feet RVR.																									
TERMINAL ROUTES										MISSED APPROACH																									
FROM		TO		COURSE AND DISTANCE				ALTITUDE																											
										ADDITIONAL FLIGHT DATA:																									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																																			
2. _____																																			
3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD _____																																			
4. MIN. ALT _____																																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____																									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																				ALTERNATE: N A															
CATEGORY =====>																																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS																
NOTES:																																			
PROCEDURE CANCELED EFFECTIVE 4 FEBRUARY 2016																																			
CITY AND STATE NATCHEZ, MS				ELEVATION: 272 TDZE: 266 AIRPORT NAME: HARDY-ANDERS FIELD NATCHEZ-ADAMS COUNTY				FACILITY IDENTIFIER: HEZ				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 13, AMDT 3, 12/20/2007						SUP VOR/DME OR GPS RWY 13																	
																		AMDT 2A																	
																		DATE 09/01/2005																	



RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION INSTRUMENT APPROACH PROCEDURE FEDERAL AVIATION ADMINISTRATION TITLE 14 CFR PART 97.33							Bearings, headings, courses, 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 in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW26 CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT EWN VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 226.00 INBOUND. CHART FAS OBST: 118 TREE 344446N/0763811W 204 AAO 344440N/0763514W. CHART R-5306A. CHART R-5306C. DISTANCE TO THLD FROM 256 HAT: 0.67 NM. CHART VDP AT 1.03 MILES TO RW26* *LNAV ONLY. WAAS CHANNEL # 40338 REFERENCE PATH ID: W26A CHART CIRCLING ICON. LTP HAE: -35 M									
EWN VOR/DME		CIGOR (FO)			129.06 / 32.26			3000											
CIGOR (IF/IAF)		MOKEY (FB)			256.12 / 6.01			1000											
MOKEY (FAF)		RW26 (MAP) (FO)			256.07 / 2.98														
RW26 (MAP)		500 MSL			256.07			500											
500 MSL		EWN VOR/DME (FO)						3000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E CIGOR, LT, 256.12 INBOUND, 1900 FT. IN LIEU OF PT (IAF) 3. FAC: 256.07 FAF: MOKEY DIST FAF TO MAP: 2.98 THLD: 2.98 4. MIN. ALT: CIGOR 1900, MOKEY 1000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1000 GS ALT AT: MOKEY 1000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 42.8 34:1 IS NOT CLEAR 8. MSA FROM: RW26 2100																MAG VAR: 8W		EPOCH YEAR: 1985	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @										
CATEGORY =====>		A			B			C			D			E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
LPV DA	264	1	256	264	1	256	264	1	256	264	1	256							
LNAV/VNAV DA	394	1 1/4	386	394	1 1/4	386	394	1 1/4	386	394	1 1/4	386							
LNAV MDA	380	1	372	380	1	372	380	1	372	380	1	372							
CIRCLING	540	1	530	540	1	530	580	1 1/2	570	580	2	570							
NOTES: CHART NOTE: NIGHT LANDING: RWY 8, 14, 32 NA. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CHERRY POINT VCAS ALTIMETER SETTING. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)																			
CITY AND STATE BEAUFORT, NC		ELEVATION: 10 TDZE: 8 AIRPORT NAME: MICHAEL J SMITH FIELD		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 26, AMDT 3 4 FEBRUARY 2016				SUP: 4 AMDT: 02 DATED 05/02/2013									
										QUALITY CHECKED									

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

NOTES, (CONT.):

*RNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHERRY POINT MCAS ALTIMETER SETTING AND INCREASE LPV DA TO 301 FEET, RNAV/VNAV DA TO 431 FEET AND INCREASE ALL MDA 40 FEET; INCREASE

RNAV/VNAV ALL CATS AND RNAV CATS C/D VISIBILITY 1/8 MILE AND CIRC CAT C 1/4 MILE.

CHART NOTE: ATC CLEARANCE REQUIRED TO PENETRATE R-5306A AND R-5306C.

CITY AND STATE
BEAUFORT, NC

ELEVATION: 10 TDZE: 8
AIRPORT NAME:
MICHAEL J SMITH FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 26, AMDT 3
4 FEBRUARY 2016

SUP: 4
AMDT: 2
DATED: 05/02/2013

QUALITY
4
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMRH
RUNWAY	RW26
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W26A
LTP/FTP LATITUDE	344416.7100N
LTP/FTP LONGITUDE	0763916.2600W
LTP/FTP ELLIPSOIDAL HEIGHT	-00350
FPAP LATITUDE	344343.3235N
FPAP LONGITUDE	0764056.5175W
THRESHOLD CROSSING HEIGHT (TCH)	00042.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

1BD5273B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00025
FPAP ORTHOMETRIC HEIGHT	+00025

CITY AND STATE

BEAUFORT, NC

ELEVATION: 10

TDZE: 8

AIRPORT NAME:

MICHAEL J SMITH FIELD

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

 RNAV (GPS) RWY 26, AMDT 3
4 FEBRUARY 2016

SUP:

AMDT:

DATED:

QUALITY

4

CHECKED

2

05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

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ARINC SUMMARY - KMRH

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
EWN	010	EWN	IF	FB										V
EWN	020	CIGOR	TF	FO	2.0	129.1						AA 03000		EY
EWN	030	CIGOR	HF	FO		256.1			L			AA 01900		EE A
	010	CIGOR	IF	FB								AA 01900		E I
	020	MOKEY	TF	FB	0.5	256.1				RW26		AA 01000		E F
	030	RW26	TF	FO	0.3	256.1		3.00				AT 00051		GY M
	040		CA	FB		256.1						AA 00500		M
	050	EWN	DF	FO					R			AA 03000		VY
	060	EWN	HM	FO		226.0			R			AA 03000		VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
EWN	N350423.31	W0770242.23
CIGOR	N344738.41	W0762908.87
MOKEY	N344523.63	W0763555.02

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW26	N344416.71	W0763916.26	00008	43

QUALITY
4
CHECKED

CITY AND STATE BEAUFORT, NC	ELEVATION: 10 TDZE: 8	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 26, AMDT 3 4 FEBRUARY 2016	SUP:
	AIRPORT NAME: MICHAEL J SMITH FIELD			AMDT: 2
				DATED: 05/02/2013

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29										Bearings, headings, courses, 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 in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH									
FROM				TO			COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 4.80 MILES AFTER BEVET/I-MYR 6.60 DME/RADAR OR AT I-MYR 1.80 DME FIX										
CRE VORTAC				UXDEP INT/I-MYR 12.64 DME/RADAR			287.98 / 13.00				2000		CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 235.00 AND CRE VORTAC R-234 TO PLANN/24.01 DME AND HOLD, OR AS DIRECTED BY ATC ALTERNATE MA: CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 DIRECT HYW NDB AND HOLD. (ADF REQUIRED). ADDITIONAL FLIGHT DATA: HOLD SW, RT, 053.52 INBOUND. CHART FAS OBST: 134 TREE 334220N/0785611W CHART: 191 TOWER 334418N/0785707W CHART VDP AT 2.83 DME* DISTANCE VDP TO THLD 1.04 MILES. *LOC ONLY. CHART IN PLANVIEW: HYW NDB. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW HYW NDB, LT, 027.70 INBOUND. CHART CIRCLING ICON.										
UXDEP INT/I-MYR 12.64 DME/RADAR (IF/IAF)				BEVET/I-MYR 6.60 DME/RADAR			177.21 / 6.04 (I-MYR)				1600												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 9W EPOCH YEAR: 2020									
2. HOLD N UXDEP, RT, 177.21 INBOUND, 2000 FT. IN LIEU OF PT (IAF)																							
3. FAC: 177.21 FAF: BEVET/I-MYR 6.60 DME/RADAR DIST FAF TO MAP: 4.80 THLD: 4.80																							
4. MIN. ALT: UXDEP 2000, BEVET 1600, JOKIX/I-MYR 4.30 DME/RADAR 860*																							
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 933																							
6. MIN GS INCPT: 1600 GS ALT AT: BEVET 1600 OM: - MM: - IM: -																							
7. GS ANGLE: 3.00 TCH: 48.4																							
8. MSA FROM: CRE VORTAC 2100																							
MINIMUMS																							
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: STANDARD #			LOC: STANDARD @										
CATEGORY =====>		A			B			C			D			E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA								
S-ILS 18 **	223	2400	200	223	2400	200	223	2400	200	223	2400	200	223	2400	200								
S-LOC 18	400	2400	377	400	2400	377	400	3500	377	400	3500	377	400	3500	377								
CIRCLING	560	1	535	560	1	535	740	2	715	740	2 1/4	715	740	2 1/2	715								
NOTES: CHART NOTE: DME REQUIRED. CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 18 CAT E VISIBILITY TO RVR 4000 AND S-LOC 18 CATS C/D/E VISIBILITY TO RVR 5500.																							
# CAT C 800-2, CAT D 800-2 1/4, CAT E 800-2 1/2 @ CAT D 800-2 1/4, CAT E 800-2 1/2																							
CITY AND STATE MYRTLE BEACH, SC				ELEVATION: 25 TDZE: 23 AIRPORT NAME: MYRTLE BEACH INTL				FACILITY IDENTIFIER: I-MYR		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 18, AMDT 4 4 FEBRUARY 2016					SUP: AMDT: 3A DATED 12/11/2014								

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KMYR

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
CRE	010	CRE	IF	FB										V
CRE	020	UXDEP	TF	FO								AA 02000		EY
CRE	030	UXDEP	HF	FO		177.2	IMYR		R			AA 02000		EE A
	010	UXDEP	IF	FB			IMYR					AA 02000 GI 01600		E I
	020	BEVET	CF	FB		177.0	IMYR	3.00		CRE		GI 01600 GS 01600		E F
	030	RW18	CF	FO		177.0	IMYR	3.00				AT 00071		GY M
	040		CA	FB		177.2						AA 00800		M
	050		VI	FB		235.0								
	060	PLANN	CF	FO		233.5	CRE					AA 03000		EY
	070	PLANN	HM	FO		053.5			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CRE	N334849.86	W0784328.32
IMYR (DME)	N333948.21	W0785522.20
PLANN	N333330.41	W0790538.64
BEVET	N334615.68	W0785704.08
UXDEP	N335210.91	W0785833.06
IMYR (LOC)	N333946.99	W0785526.96

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW18	N334133.08	W0785553.45	00022	48.4

QUALITY
12
CHECKED

CITY AND STATE

MYRTLE BEACH, SC

ELEVATION: 25

TDZE: 23

AIRPORT NAME:

MYRTLE BEACH INTL

FACILITY
IDENTIFIER:

I-MYR

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC RWY 18, AMDT 4

4 FEBRUARY 2016

SUP:

AMDT:

3A

DATED:

12/11/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KMYR

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
CRE	010	CRE	IF	FB										V
CRE	020	UXDEP	TF	FO								AA 02000		EY
CRE	030	UXDEP	HF	FO		177.2	IMYR		R			AA 02000		EE A
	010	UXDEP	IF	FB			IMYR					AA 02000		E I
	020	BEVET	CF	FB		177.0	IMYR			CRE		AA 01600		E F
	021	JOKIX	CF	FB		177.0	IMYR	3.01				AA 00860		E S
	030	RW18	CF	FO		177.0	IMYR	3.01				AT 00071		GY M
	040		CA	FB		177.2						AA 00800		M
	050		VI	FB		235.0								
	060	PLANN	CF	FO		233.5	CRE					AA 03000		EY
	070	PLANN	HM	FO		053.5			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CRE	N334849.86	W0784328.32
IMYR (DME)	N333948.21	W0785522.20
PLANN	N333330.41	W0790538.64
BEVET	N334615.68	W0785704.08
JOKIX	N334400.18	W0785630.20
UXDEP	N335210.91	W0785833.06
IMYR (LOC)	N333946.99	W0785526.96

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW18	N334133.08	W0785553.45	00022	48.4

QUALITY
12
CHECKED

CITY AND STATE

MYRTLE BEACH, SC

ELEVATION: 25

TDZE: 23

AIRPORT NAME:

MYRTLE BEACH INTL

FACILITY
IDENTIFIER:

I-MYR

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC RWY 18, AMDT 4

4 FEBRUARY 2016

SUP:

AMDT:

3A

DATED:

12/11/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29										Bearings, headings, courses, 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 in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 4.79 MILES AFTER PORKE/RADAR									
CHACA/RADAR (IF)				PORKE/RADAR				357.21 / 6.01				1600		CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 3000 DIRECT HYW NDB AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT CRE VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, LT, 027.70 INBOUND. CHART FAS OBST: 106 TREE 333924N/0785530W CHART W177A. CHART IN PLANVIEW: CRE VORTAC. * LOC ONLY CHART CIRCLING ICON. CHART 200 MSL SHIP 333541N/0785351W. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE CRE VORTAC, LT 238.00 INBOUND									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 9W EPOCH YEAR: 2020									
2. PROFILE STARTS AT CHACA																							
3. FAC: 357.21 FAF: PORKE/RADAR DIST FAF TO MAP: 4.79 THLD: 4.79																							
4. MIN. ALT: CHACA 1600, PORKE 1600, SOMVE/RADAR 580*																							
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1063																							
6. MIN GS INCPT: 1600 GS ALT AT: PORKE 1600 OM: - MM: - IM: -																							
7. GS ANGLE: 3.00 TCH: 52.1																							
8. MSA FROM: CRE VORTAC 2100																							
MINIMUMS																							
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @												
CATEGORY =====>		A			B			C			D			E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA								
S-ILS 36	225	4000	200	225	4000	200	225	4000	200	225	4000	200	225	4000	200								
S-LOC 36	360	4000	335	360	4000	335	360	4000	335	360	4000	335	360	4000	335								
CIRCLING	560	1	535	560	1	535	740	2	715	740	2 1/4	715	740	2 1/2	715								
NOTES: CHART NOTE: ADF AND RADAR REQUIRED. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART NOTE: FOR INOPERATIVE MALSF INCREASE S-LOC 36 CATS D/E VISIBILITY TO RVR 5000. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT. (VGSI ANGLE {ANGLE}/TCH{FEET})																							
CITY AND STATE MYRTLE BEACH, SC				ELEVATION: 25 TDZE: 25 AIRPORT NAME: MYRTLE BEACH INTL				FACILITY IDENTIFIER: I-BSQ		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 36, AMDT 4 4 FEBRUARY 2016					SUP: AMDT: 3A DATED 12/11/2014								

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KMYR

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	CHACA	IF	FB			IBSQ					AA 01600 GI 01600		E I
	020	PORKE	CF	FB		357.0	IBSQ	3.00		CRE		GI 01600 GS 01600		E F
	030	RW36	CF	FO		357.0	IBSQ	3.00				AT 00074		GY M
	040		CA	FB		357.2						AA 01000		M
	050	HYW	DF	FO								AA 03000		NY
	060	HYW	HM	FO		027.7			L			AA 03000		NE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CRE	N334849.86	W0784328.32
HYW	N334923.86	W0790741.60
CHACA	N332925.52	W0785252.16
PORKE	N333518.98	W0785420.12
IBSQ (LOC)	N334147.15	W0785556.96

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW36	N334001.05	W0785530.47	00021	52.1

QUALITY
12
CHECKED

CITY AND STATE MYRTLE BEACH, SC	ELEVATION: 25 AIRPORT NAME: MYRTLE BEACH INTL	TDZE: 25 FACILITY IDENTIFIER: I-BSQ	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 36, AMDT 4 4 FEBRUARY 2016	SUP:
				AMDT: 3A
				DATED: 12/11/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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ARINC SUMMARY - KMYR

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	CHACA	IF	FB			IBSQ					AA 01600		E I
	020	PORKE	CF	FB		357.0	IBSQ			CRE		AA 01600		E F
	021	SOMVE	CF	FB		357.0	IBSQ	3.01				AA 00580		E S
	030	RW36	CF	FO		357.0	IBSQ	3.01				AT 00074		GY M
	040		CA	FB		357.2						AA 01000		M
	050	HYW	DF	FO								AA 03000		NY
	060	HYW	HM	FO		027.7			L			AA 03000		NE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CRE	N334849.86	W0784328.32
HYW	N334923.86	W0790741.60
CHACA	N332925.52	W0785252.16
PORKE	N333518.98	W0785420.12
SOMVE	N333826.90	W0785506.98
IBSQ (LOC)	N334147.15	W0785556.96

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW36	N334001.05	W0785530.47	00021	52.1

QUALITY
12
CHECKED

CITY AND STATE

MYRTLE BEACH, SC

ELEVATION: 25

TDZE: 25

AIRPORT NAME:

MYRTLE BEACH INTL

FACILITY
IDENTIFIER:

I-BSQ

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC RWY 36, AMDT 4

4 FEBRUARY 2016

SUP:

AMDT:

3A

DATED:

12/11/2014

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										Bearings, headings, courses, 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 in feet RVR.					
TERMINAL ROUTES												MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE			ALTITUDE			LPV: DA LNAV/VNAV: DA LNAV: RW18 CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT PLANN AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 059.52 INBOUND. CHART FAS OBST: 178 T-L TWR 334245N/0785533W DISTANCE TO THLD FROM 200 HAT: 0.48 NM. CHART VDP AT 1.16 MILES TO RW18* *LNAV ONLY. WAAS CHANNEL # 93819 REFERENCE PATH ID: W18A CHART CIRCLING ICON. LTP HAE: -27.9 M									
ZEVIM (IAF)			UXDEP (NOPT) (FB)			237.24 / 7.70			2000												
WOPSU (IAF)			UXDEP (NOPT) (FB)			117.10 / 7.70			2000												
UXDEP (IF/IAF)			BEVET (FB)			177.18 / 6.04			1600												
BEVET (FAF)			JOKIX/2.50 NM TO RW18 (FB)			177.20 / 2.30															
JOKIX/2.50 NM TO RW18			RW18 (MAP) (FO)			177.20 / 2.50															
RW18 (MAP)			500 MSL			177.20			500												
500 MSL			PLANN (FO)						3000												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N UXDEP, RT, 177.18 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 177.20 FAF: BEVET DIST FAF TO MAP: 4.80 THLD: 4.80 4. MIN. ALT: UXDEP 2000, BEVET 1600, JOKIX/2.50 NM TO RW18 860* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1600 GS ALT AT: BEVET 1600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 48.4 34:1 IS CLEAR 8. MSA FROM: _____																		MAG VAR: 9W		EPOCH YEAR: 2020	
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @									
CATEGORY =====>		A			B			C			D			E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA						
LPV DA	223	2400	200	223	2400	200	223	2400	200	223	2400	200	223	2400	200						
LNAV/VNAV DA	465	5000	442	465	5000	442	465	5000	442	465	5000	442	465	5000	442						
LNAV MDA	440	2400	417	440	2400	417	440	4000	417	440	4000	417	440	4000	417						
CIRCLING	560	1	535	560	1	535	740	2	715	740	2 1/4	715	740	2 1/2	715						
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ CAT D 800-2 1/4, CAT E 800-2 1/2 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LPV CAT E VISIBILITY TO RVR 4000, INCREASE LNAV/VNAV CAT E VISIBILITY TO 1 1/2 MILE AND INCREASE LNAV CATS C/D/E VISIBILITY TO RVR 6000.																					
CITY AND STATE MYRTLE BEACH, SC				ELEVATION: 25 TDZE: 23 AIRPORT NAME: MYRTLE BEACH INTL				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 4 4 FEBRUARY 2016				SUP: QUALITY					
																AMDT: 3A					
																DATED 12/11/2014					

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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TAA

	FROM	TO	ALT
1.	117/30 CW 237/30 (NOPT)	117/10 CW 237/10	2700
2.	117/10 CW 237/10	UXDEP (IF/IAF) (FB)	2000
3.	237/30 CW 357/30	ZEVIM (IAF) (FB)	2000
4.	357/30 CW 117/30	WOPSU (IF/IAF) (FB)	2100

CITY AND STATE

MYRTLE BEACH, SC

ELEVATION: 25

TDZE: 23

AIRPORT NAME:

MYRTLE BEACH INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 18, AMDT 4
4 FEBRUARY 2016

SUP:

AMDT:

DATED: 12/11/2014

 QUALITY
10
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMYR
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	334133.0835N
LTP/FTP LONGITUDE	0785553.4505W
LTP/FTP ELLIPSOIDAL HEIGHT	-00279
FPAP LATITUDE	334001.0500N
FPAP LONGITUDE	0785530.4800W
THRESHOLD CROSSING HEIGHT (TCH)	00048.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

1CC619C1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00067
FPAP ORTHOMETRIC HEIGHT	+00067

CITY AND STATE

MYRTLE BEACH, SC

ELEVATION: 25

TDZE: 23

AIRPORT NAME:

MYRTLE BEACH INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 18, AMDT 4
4 FEBRUARY 2016

SUP:

AMDT:

DATED:

 QUALITY
10
CHECKED

3A

12/11/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION												Bearings, headings, courses, 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 in feet RVR.		
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE														
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33														
ARINC SUMMARY - KMYR														
ROUTES														
TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
UXDEP	010	UXDEP	HF	FO		177.2			R			AA 02000		EE A
WOPSU	010	WOPSU	IF	FB										E A
WOPSU	020	UXDEP	TF	FB	1.0	117.1						AA 02000		EE B
ZEVIM	010	ZEVIM	IF	FB										E A
ZEVIM	020	UXDEP	TF	FB	1.0	237.2						AA 02000		EE B
	010	UXDEP	IF	FB								AA 02000		E I
	020	BEVET	TF	FB	0.5	177.2						AA 01600		E F
	021	JOKIX	TF	FB	0.3	177.2		3.00				AA 00860 GS 00867		E S
	030	RW18	TF	FO	0.3	177.2		3.00				AT 00071		GY M
	040		CA	FB		177.2						AA 00500		M
	050	PLANN	DF	FO					R			AA 03000		EY
	060	PLANN	HM	FO		059.5			R			AA 03000		EE
POINTS														
POINT NAME			LATITUDE			LONGITUDE								
BEVET			N334615.68			W0785704.08								
JOKIX			N334400.18			W0785630.20								
PLANN			N333330.41			W0790538.64								
UXDEP			N335210.91			W0785833.06								
WOPSU			N335435.00			W0790720.45								
ZEVIM			N335719.33			W0785139.15								
RUNWAYS														
RUNWAY			THRESHOLD LATITUDE			THRESHOLD LONGITUDE			THRESHOLD ELEVATION			PROCEDURE TCH		
RW18			N334133.08			W0785553.45			00022			48		



CITY AND STATE MYRTLE BEACH, SC	ELEVATION: 25	TDZE: 23	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: MYRTLE BEACH INTL		RNAV	RNAV (GPS) RWY 18, AMDT 4	3A
				4 FEBRUARY 2016	DATED: 12/11/2014

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW36 CLIMB TO 2000 DIRECT UXDEP AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 177.18 INBOUND. CHART FAS OBST: 177 TOWER 334011N/0785559W CHART W-177A. DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.23 MILES TO RW36* *LNAV ONLY. WAAS CHANNEL # 93719 REFERENCE PATH ID: W36A CHART CIRCLING ICON. LTP HAE: -28.2 M							
CHACA (IF)		PORKE (FB)		357.24 / 6.01				1600									
PORKE (FAF)		RW36 (MAP) (FO)		357.22 / 4.79													
RW36 (MAP)		225 MSL		357.22				2000									
225 MSL		UXDEP (FO)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT CHACA 3. FAC: 357.22 FAF: PORKE DIST FAF TO MAP: 4.79 THLD: 4.79 4. MIN. ALT: CHACA 1600, PORKE 1600 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1600 GS ALT AT: PORKE 1600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 52.1 34:1 IS CLEAR 8. MSA FROM: RW36 2100										MAG VAR: 9W		EPOCH YEAR: 2020					
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @					
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LPV DA	225	4000	200	225	4000	200	225	4000	200	225	4000	200	225	4000	200		
LNAV/VNAV DA	374	4500	349	374	4500	349	374	4500	349	374	4500	349	374	4500	349		
LNAV MDA	460	4000	435	460	4000	435	460	5000	435	460	5000	435	460	5000	435		
CIRCLING	560	1	535	560	1	535	740	2	715	740	2 1/4	715	740	2 1/2	715		
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ CAT D 800-2 1/4, CAT E 800-2 1/2 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV. (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 25 TDZE: 25		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
MYRTLE BEACH, SC		AIRPORT NAME:		MYRTLE BEACH INTL		RNAV (GPS) RWY 36, AMDT 4				AMDT: 3A							
						4 FEBRUARY 2016				DATED 12/11/2014							



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
**RNAV - STANDARD
 INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE MALSF, INCREASE LNAV/VNAV CATS D/E VISIBILITY TO RVR 6000, AND LNAV CATS D/E VISIBILITY TO 1 1/4.

CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT. (VGS1 ANGLE{ANGLE}/TCH {FEET}).

CITY AND STATE
MYRTLE BEACH, SC

ELEVATION: 25	TDZE: 25
AIRPORT NAME:	
	MYRTLE BEACH INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 36, AMDT 4
4 FEBRUARY 2016

SUP:	CHECKED
AMDT:	3A
DATED:	12/11/2014

QUALITY
10
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMYR
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	334001.0545N
LTP/FTP LONGITUDE	0785530.4680W
LTP/FTP ELLIPSOIDAL HEIGHT	-00282
FPAP LATITUDE	334133.0840N
FPAP LONGITUDE	0785553.4485W
THRESHOLD CROSSING HEIGHT (TCH)	00052.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

BBCBBBDC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00065
FPAP ORTHOMETRIC HEIGHT	+00065

 QUALITY
10

CHECKED

CITY AND STATE MYRTLE BEACH, SC	ELEVATION: 25 TDZE: 25 AIRPORT NAME: MYRTLE BEACH INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 4 4 FEBRUARY 2016	SUP:
				AMDT: 3A
				DATED: 12/11/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KMYR

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	CHACA	IF	FB								AA 01600		E I
	020	PORKE	TF	FB	0.5	357.2				RW36		AA 01600		E F
	030	RW36	TF	FO	0.3	357.2		3.00				AT 00074		GY M
	040		CA	FB		357.2						AA 00225		M
	050	UXDEP	DF	FO								AA 02000		EY
	060	UXDEP	HM	FO		177.2			R			AA 02000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CHACA	N332925.52	W0785252.16
PORKE	N333518.98	W0785420.12
UXDEP	N335210.91	W0785833.06

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW36	N334001.05	W0785530.47	00021	52

CITY AND STATE MYRTLE BEACH, SC	ELEVATION: 25 TDZE: 25	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 4 4 FEBRUARY 2016	SUP:
	AIRPORT NAME: MYRTLE BEACH INTL			AMDT:
	DATED: 12/11/2014			

QUALITY
10
CHECKED

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, 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 in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAKCP CLIMB TO 3000 DIRECT PLANN AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 059.52 INBOUND. CHART FAS OBST: 218 TOWER 334152N/0785409W FAC CROSSES MID POINT OF RWY 18-36. CHART CIRCLING ICON.									
CRE VORTAC (IF/IAF)		LAMPP (FB)		240.00 / 7.00				1600											
LAMPP (FAF)		JATBU/1.20 NM TO MAKCP (FB)		239.94 / 4.42															
JATBU/1.20 NM TO MAKCP		MAKCP (MAP) (FO)		239.94 / 1.20															
MAKCP (MAP)		425 MSL		239.89															
425 MSL		PLANN (FO)						3000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE CRE VORTAC, LT, 240.00 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 239.94 FAF: LAMPP DIST FAF TO MAP: 5.62 THLD: _____ 4. MIN. ALT: CRE VORTAC 2000, LAMPP 1600, JATBU/1.20 NM TO MAKCP 740 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: _____ 8. MSA FROM: MAKCP 2100																MAG VAR: 9W		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @									
CATEGORY =====>		A		B		C		D		E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
CIRCLING	560	1	535	560	1	535	740	2	715	740	2 1/4	715	740	2 1/2	715				
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. @ CAT D 800-2 1/4, CAT E 800-2 1/2 CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON CRE VORTAC AIRWAY RADIALS 357 CW 056.																			
CITY AND STATE		ELEVATION: 25 TDZE:		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
MYRTLE BEACH, SC		AIRPORT NAME:		RNAV		RNAV (GPS)-A, AMDT 1 4 FEBRUARY 2016				AMDT: ORIG									
		MYRTLE BEACH INTL								DATED 08/23/2012									

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

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ARINC SUMMARY - KMYR

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
CRE	010	CRE	HF	FO		240.0			L			AA 02000		VE A
	010	CRE	IF	FB								AA 02000		V I
	020	LAMPP	TF	FB	0.5	240.0				MAKCP		AA 01600		E F
	021	JATBU	TF	FB	0.3	239.9						AA 00740		E S
	030	MAKCP	TF	FO	0.3	239.9		0.00				AT 00740		EY M
	040		CA	FB		239.9						AA 00425		M
	050	PLANN	DF	FO								AA 03000		EY
	060	PLANN	HM	FO		059.5		R				AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CRE	N334849.86	W0784328.32
JATBU	N334137.41	W0785406.53
LAMPP	N334424.89	W0784959.73
MAKCP	N334051.94	W0785513.44
PLANN	N333330.41	W0790538.64

CITY AND STATE MYRTLE BEACH, SC	ELEVATION: 25	TDZE:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS)-A, AMDT 1 4 FEBRUARY 2016	SUP:
	AIRPORT NAME: MYRTLE BEACH INTL	FACILITY IDENTIFIER: RNAV		AMDT:
				DATED: 08/23/2012

QUALITY
10
CHECKED
ORIG

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29						Bearings, headings, courses, 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 in feet RVR.										
TERMINAL ROUTES											MISSED APPROACH					
FROM		TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 6.62 MILES AFTER ELWHA LOM CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 5400 ON HEADING 030 AND ON CVV R-247 TO JIGEB/CVV 12.10 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5400, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1000 THEN CLIMBING LEFT TURN TO (SEE FORM 8260-10) ADDITIONAL FLIGHT DATA: HOLD SW, RT, 067.42 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW WATTR INT/SEA 49.38 DME, RT, 130.08 INBOUND. FAS OBST: 600 AAO 480743N/1233548W CHART CYA 102. CHART IN PLANVIEW: WATTR INT/SEA 49.38 DME. CHART CIRCLING ICON. 1250 AAO 480900N/1234012W						
CVV VOR/DME		ELWHA LOM			242.85 / 38.39			6700								
JIGEB/CVV 12.10 DME		ELWHA LOM			243.05 / 26.34			6700								
ELWHA LOM		YUCSU/TOU 29.63 DME			267.89 / 9.80			6700								
TOU VORTAC (IAF)		YUCSU/TOU 29.63 DME (NOPT)			080.71 / 29.63			4700								
YUCSU/TOU 29.63 DME (IF/IAF)		HUTUK/TOU 34.00 DME			088.57 / 4.37 (I-CLM)			3600								
HUTUK/TOU 34.00 DME		ELWHA LOM			088.57 / 5.43 (I-CLM)			2500								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W YUCSU, LT, 088.57 INBOUND, 4700 FT. IN LIEU OF PT (IAF) 3. FAC: 088.57 FAF: ELWHA LOM PFAF: OCUVI DIST FAF TO MAP: 6.62 THLD: 6.62 4. MIN. ALT: YUCSU 4700, HUTUK 3600, ELWHA LOM 2500* 5. DIST TO THLD FROM OM: 6.62 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1023 6. MIN GS INCPT: 3500 GS ALT AT: - OCUVI 3500 OM: 2483 MM: - IM: - 7. GS ANGLE: 3.00 TCH: 54.2 8. MSA FROM: CL LOM 345-075 3800, 075-240 9000, 240-345 4900											MAG VAR: 16E		EPOCH YEAR: 2020			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		X						
CATEGORY ==>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 08	484	1/2	200	484	1/2	200	484	1/2	200	484	1/2	200				
S-LOC 08	900	1/2	616	900	1/2	616	900	1 3/8	616	900	1 3/8	616				
CIRCLING	900	1	609	900	1	609	900	1 3/4	609	900	2	609				
NOTES: CHART NOTE: NIGHT LANDING: RWY 13, 31 NA. CHART NOTE: CIRCLING NA S OF RWY 8-26. CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TOU VORTAC ON V4 WESTBOUND. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 291 TDZE: 284			FACILITY IDENTIFIER: I-CLM		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:				
PORT ANGELES, WA		AIRPORT NAME:			WILLIAM R FAIRCHILD INTL		ILS OR LOC RWY 8, AMDT 3 4 FEBRUARY 2016					AMDT: 2C				
												DATED 10/16/2014				

**ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29**

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MISSSED APPROACH INSTRUCTIONS, (CONT.):

5400 ON HEADING 030 AND ELWHA LOM BRG-075 TO WATTR INT/SEA 49.38 DME AND HOLD, CONTINUE
CLIMB-IN-HOLD TO 5400 (ADF REQUIRED).

NOTES, (CONT.):

CHART PLANVIEW NOTE: DME REQUIRED.

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

*LOC ONLY

CHART NOTE: DME FROM TOU VORTAC. SIMULTANEOUS RECEPTION OF I-CLM AND TOU DME REQUIRED.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 8 CAT C/D VISIBILITY TO 1 3/4 MILE.



CITY AND STATE

PORT ANGELES, WA

ELEVATION: 291

TDZE: 284

AIRPORT NAME:

WILLIAM R FAIRCHILD INTL

FACILITY
IDENTIFIER:

I-CLM

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 8, AMDT 3

4 FEBRUARY 2016

SUP:

AMDT: 2C

DATED: 10/16/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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ARINC SUMMARY - KCLM

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
CVV	010	CVV	IF	FB										V
CVV	020	ELWHA	TF	FB								AA 06700		E
CVV	030	YUCSU	TF	FO								AA 06700		EY
CVV	040	YUCSU	HF	FO		088.6			L			AA 04700		E A
CVV	050	HUTUK	CF	FB		088.6	ICLM					AA 03600		EE
JIGEB	010	JIGEB	IF	FB										E
JIGEB	020	ELWHA	TF	FB								AA 06700		E
JIGEB	030	YUCSU	TF	FO								AA 06700		EY
JIGEB	040	YUCSU	HF	FO		088.6			L			AA 04700		E A
JIGEB	050	HUTUK	CF	FB		088.6	ICLM					AA 03600		EE
TOU	010	TOU	IF	FB										V A
TOU	020	YUCSU	TF	FB								AA 04700		E B
TOU	030	HUTUK	CF	FB		088.6	ICLM					AA 03600		EE
	010	HUTUK	IF	FB			ICLM					AA 03600 GI 03500		E I
	020	OCUVI	CF	FB		089.0	ICLM	3.00		CL		GI 03500 GS 03500		E F
	030	RW08	CF	FO		089.0	ICLM	3.00				AT 00338		GY M
	040		CA	FB		088.6						AA 01000		M
	050		VI	FB		030.0								
	060	JIGEB	CF	FO		067.4	CVV					AA 05400		EY
	070	JIGEB	HM	FO		067.4			R			AA 05400		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CVV	N481440.90	W1224327.90
TOU	N481759.64	W1243737.36
JIGEB	N481354.19	W1230131.69
ELWHA	N480855.11	W1234015.06
HUTUK	N481016.02	W1234806.01
OCUVI	N480944.60	W1234502.73
YUCSU	N481120.81	W1235425.64
ICLM (LOC)	N480659.21	W1232906.61
CL	N480900.72	W1234012.90

RUNWAYS

THRESHOLD

THRESHOLD

THRESHOLD

PROCEDURE

QUALITY
15
CHECKED

CITY AND STATE

PORT ANGELES, WA

ELEVATION: 291

TDZE: 284

AIRPORT NAME:

WILLIAM R FAIRCHILD INTL

FACILITY
IDENTIFIER:

I-CLM

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC RWY 8, AMDT 3

4 FEBRUARY 2016

SUP:

AMDT:

2C

DATED:

10/16/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION ILS STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29				Bearings, headings, courses, 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 in feet RVR.	
RUNWAY	LATITUDE	LONGITUDE	ELEVATION	TCH	
RW08	N480715.73	W1233041.46	00284	54.2	
CITY AND STATE PORT ANGELES, WA		ELEVATION: 291 TDZE: 284 AIRPORT NAME: WILLIAM R FAIRCHILD INTL		FACILITY IDENTIFIER: I-CLM	
				PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 8, AMDT 3 4 FEBRUARY 2016	
				SUP: AMDT: 2C DATED: 10/16/2014	



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KCLM

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
CVV	010	CVV	IF	FB										V
CVV	020	ELWHA	TF	FB								AA 06700		E
CVV	030	YUCSU	TF	FO								AA 06700		EY
CVV	040	YUCSU	HF	FO		088.6			L			AA 04700		E A
CVV	050	HUTUK	CF	FB		088.6	ICLM					AA 03600		EE
JIGEB	010	JIGEB	IF	FB										E
JIGEB	020	ELWHA	TF	FB								AA 06700		E
JIGEB	030	YUCSU	TF	FO								AA 06700		EY
JIGEB	040	YUCSU	HF	FO		088.6			L			AA 04700		E A
JIGEB	050	HUTUK	CF	FB		088.6	ICLM					AA 03600		EE
TOU	010	TOU	IF	FB										V A
TOU	020	YUCSU	TF	FB								AA 04700		E B
TOU	030	HUTUK	CF	FB		088.6	ICLM					AA 03600		EE
	010	HUTUK	IF	FB			ICLM					AA 03600		E I
	020	ELWHA	CF	FB		089.0	ICLM			CL		AA 02500		E F
	030	RW08	CF	FO		089.0	ICLM	3.08				AT 00338		GY M
	040		CA	FB		088.6						AA 01000		M
	050		VI	FB		030.0								
	060	JIGEB	CF	FO		067.4	CVV					AA 05400		EY
	070	JIGEB	HM	FO		067.4			R			AA 05400		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CVV	N481440.90	W1224327.90
TOU	N481759.64	W1243737.36
JIGEB	N481354.19	W1230131.69
ELWHA	N480855.11	W1234015.06
HUTUK	N481016.02	W1234806.01
YUCSU	N481120.81	W1235425.64
ICLM (LOC)	N480659.21	W1232906.61
CL	N480900.72	W1234012.90

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
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QUALITY
15
CHECKED

CITY AND STATE PORT ANGELES, WA	ELEVATION: 291 TDZE: 284	FACILITY IDENTIFIER: I-CLM	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 8, AMDT 3 4 FEBRUARY 2016	SUP:
	AIRPORT NAME: WILLIAM R FAIRCHILD INTL			AMDT: 2C
				DATED: 10/16/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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RW08

N480715.73

W1233041.46

00284

54.2

QUALITY
15
CHECKED

CITY AND STATE

PORT ANGELES, WA

ELEVATION: 291

TDZE: 284

AIRPORT NAME:

WILLIAM R FAIRCHILD INTL

FACILITY
IDENTIFIER:

I-CLM

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC RWY 8, AMDT 3

4 FEBRUARY 2016

SUP:

AMDT:

2C

DATED:

10/16/2014

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW08 CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 5400 DIRECT WATTR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5400. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 127.08 INBOUND. FAS OBST: 860 AAO 480717N/1233537W CHART CYA 102. CHART CYR 109. DISTANCE TO THLD FROM 220 HAT: 0.52 NM. CHART VDP AT 2.08 MILES TO RW08* *LNAV ONLY. WAAS CHANNEL # 77703 REFERENCE PATH ID: W08A CHART CIRCLING ICON. 1000 AAO 480900N/1233924W LTP HAE: 66.3 M					
WATTR		YUCSU (FO)		258.77 / 38.92				4700							
JIGEB		YUCSU (FO)		250.19 / 35.47				4700							
YUCSU (IF/IAF)		OCUVI (FB)		088.28 / 6.48				3500							
OCUVI (FAF)		LIGIY/5.90 NM TO RW08 (FB)		088.39 / 4.03											
LIGIY/5.90 NM TO RW08		RW08 (MAP) (FO)		088.39 / 5.90											
RW08 (MAP)		1000 MSL		088.39				1000							
1000 MSL		WATTR (FO)						5400							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W YUCSU, LT, 088.28 INBOUND, 4700 FT. IN LIEU OF PT (IAF) 3. FAC: 088.39 FAF: OCUVI DIST FAF TO MAP: 9.93 THLD: 9.93 4. MIN. ALT: YUCSU 4700, OCUVI 3500, LIGIY/5.90 NM TO RW08 2200* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3500 GS ALT AT: OCUVI 3500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 54.2 34:1 IS CLEAR 8. MSA FROM: RW08 9000										MAG VAR: 16E		EPOCH YEAR: 2020			
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD					
CATEGORY ==>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	504	1/2	220	504	1/2	220	504	1/2	220	504	1/2	220			
LNAV/VNAV DA	750	1 1/8	466	750	1 1/8	466	750	1 1/8	466	750	1 1/8	466			
LNAV MDA	960	1/2	676	960	1/2	676	960	1 1/2	676	960	1 1/2	676			
CIRCLING	960	1	669	960	1	669	960	1 7/8	669	960	2	669			
NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JIGEB ON V495 SOUTHEAST BOUND. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 291 TDZE: 284				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
PORT ANGELES, WA		AIRPORT NAME:						RNAV (GPS) RWY 8, AMDT 1				AMDT: ORIG-C			
		WILLIAM R FAIRCHILD INTL						4 FEBRUARY 2016				DATED 10/16/2014			

QUALITY
 25
 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/2 MILE, AND INCREASE LNAV CAT C/D VISIBILITY TO 1 7/8 MILE.

CHART NOTE: NIGHT LANDING: RWY 13, 31 NA.

CHART NOTE: CIRCLING NA S OF RWY 8-26.

QUALITY
25
CHECKED

CITY AND STATE PORT ANGELES, WA	ELEVATION: 291 AIRPORT NAME: WILLIAM R FAIRCHILD INTL	TDZE: 284	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 8, AMDT 1 4 FEBRUARY 2016	SUP:
					AMDT: ORIG-C
					DATED: 10/16/2014

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCLM
RUNWAY	RW08
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	480715.7295N
LTP/FTP LONGITUDE	1233041.4550W
LTP/FTP ELLIPSOIDAL HEIGHT	+00663
FPAP LATITUDE	480653.3105N
FPAP LONGITUDE	1232832.7635W
THRESHOLD CROSSING HEIGHT (TCH)	00054.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0816
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

DD85F6AF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+00865
FPAP ORTHOMETRIC HEIGHT	+00865

QUALITY
25
CHECKED

CITY AND STATE

PORT ANGELES, WA

ELEVATION: 291

TDZE: 284

AIRPORT NAME:

WILLIAM R FAIRCHILD INTL

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 8, AMDT 1

4 FEBRUARY 2016

SUP:

AMDT: ORIG-C

DATED: 10/16/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												Bearings, headings, courses, 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 in feet RVR.																																																																																																																																																																																																																																																
ARINC SUMMARY - KCLM ROUTES <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT SEQ</th> <th style="text-align: left;">WPT NAME</th> <th style="text-align: left;">LEG TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG CRS</th> <th style="text-align: left;">REC NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN DIR</th> <th style="text-align: left;">CENTER FIX</th> <th style="text-align: left;">TURN RADIUS</th> <th style="text-align: left;">ALTITUDE DESCRIPTION & VALUE</th> <th style="text-align: left;">SPEED LIMIT DESCRIPTION & VALUE</th> <th style="text-align: left;">WPT DESCRIPTION CODE</th> </tr> </thead> <tbody> <tr><td>JIGEB</td><td>010</td><td>JIGEB</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td></tr> <tr><td>JIGEB</td><td>020</td><td>YUCSU</td><td>TF</td><td>FO</td><td>2.0</td><td>250.2</td><td></td><td></td><td></td><td></td><td></td><td>AA 04700</td><td></td><td>EY</td></tr> <tr><td>JIGEB</td><td>030</td><td>YUCSU</td><td>HF</td><td>FO</td><td></td><td>088.3</td><td></td><td></td><td>L</td><td></td><td></td><td>AA 04700</td><td></td><td>EE A</td></tr> <tr><td>WATTR</td><td>010</td><td>WATTR</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td></tr> <tr><td>WATTR</td><td>020</td><td>YUCSU</td><td>TF</td><td>FO</td><td>2.0</td><td>258.8</td><td></td><td></td><td></td><td></td><td></td><td>AA 04700</td><td></td><td>EY</td></tr> <tr><td>WATTR</td><td>030</td><td>YUCSU</td><td>HF</td><td>FO</td><td></td><td>088.3</td><td></td><td></td><td>L</td><td></td><td></td><td>AA 04700</td><td></td><td>EE A</td></tr> <tr><td></td><td>010</td><td>YUCSU</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 04700</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>OCUVI</td><td>TF</td><td>FB</td><td>0.5</td><td>088.3</td><td></td><td></td><td></td><td>RW08</td><td></td><td>AA 03500</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>LIGIY</td><td>TF</td><td>FB</td><td>0.3</td><td>088.4</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AA 02200 GS 02217</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>RW08</td><td>TF</td><td>FO</td><td>0.3</td><td>088.4</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 00338</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>088.4</td><td></td><td></td><td></td><td></td><td></td><td>AA 01000</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>WATTR</td><td>DF</td><td>FO</td><td></td><td></td><td></td><td></td><td>L</td><td></td><td></td><td>AA 05400</td><td></td><td>EY</td></tr> <tr><td></td><td>060</td><td>WATTR</td><td>HM</td><td>FO</td><td></td><td>127.1</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 05400</td><td></td><td>EE</td></tr> </tbody> </table> POINTS <table style="width:100%; 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TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE																																																																																																																																																																																																																																														
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CITY AND STATE PORT ANGELES, WA		ELEVATION: 291 TDZE: 284 AIRPORT NAME: WILLIAM R FAIRCHILD INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 8, AMDT 1 4 FEBRUARY 2016			SUP: AMDT: ORIG-C DATED: 10/16/2014																																																																																																																																																																																																																																																			

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES																	MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE				ALTITUDE		LP: RW26 LNAV: RW26 CLIMBING RIGHT TURN TO 4000 DIRECT MIDWI AND ON TRACK 255.16 TO YUCSU AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 075.00 INBOUND. CHART FAS OBST: 586 TREE 480624N/1232907W CHART FAS OBST: 495 TREE 480642N/1232811W CHART VDP AT 1.09 MILES TO RW26 WAAS CHANNEL # 90338 REFERENCE PATH ID: W26A CHART CIRCLING ICON FAMUV TO RW26: 3.50/49.9 CHART 580 BLDG 480540N/1232440W 800 AAO 480422N/1231923W 850 AAO 480409N/1231900W LTP HAE: 65.5 M												
JAWBN (IAF)				COBUX (FB)				268.41 / 12.05				3700														
WATTR (IAF)				COBUX (FB)				229.83 / 8.48				3700														
COBUX (IF)				FAMUV (FB)				256.85 / 7.48				3000														
FAMUV (FAF)				SEBTY/3.50 NM TO RW26 (FB)				268.71 / 3.68																		
SEBTY/3.50 NM TO RW26				RW26 (MAP) (FO)				268.71 / 3.50																		
RW26 (MAP)				691 MSL				268.71																		
(SEE FORM 8260-10)																										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT COBUX 3. FAC: 268.71 FAF: FAMUV DIST FAF TO MAP: 7.18 THLD: 7.18 4. MIN. ALT: COBUX 3700, FAMUV 3000, SEBTY/3.50 NM TO RW26 1620 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR 8. MSA FROM: RW26 9000																	MAG VAR: 16E EPOCH YEAR: 2020									
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																	ALTERNATE: N A			STANDARD						
CATEGORY >>>>>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA								
LP MDA	760	1	478	760	1	478	760	1 3/8	478	760	1 3/8	478														
LNAV MDA	920	1	638	920	1	638	920	1 3/4	638	920	1 3/4	638														
CIRCLING	920	1	629	920	1	629	920	1 3/4	629	920	2	629														
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: CIRCLING NA S OF RWY 8-26. CHART NOTE: NIGHT LANDING: RWY 13, 31 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)																										
CITY AND STATE				ELEVATION: 291 TDZE: 282				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:										
PORT ANGELES, WA				AIRPORT NAME:								RNAV (GPS) RWY 26, AMDT 1				AMDT: ORIG-B										
				WILLIAM R FAIRCHILD INTL								4 FEBRUARY 2016				DATED 10/16/2014										



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
691 MSL	MIDWI (FB)		
MIDWI	YUCSU (FO)	255.16 / 10.32	4000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JAWBN ON V4 EASTBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WATTR ON V495 SOUTHEAST BOUND.



CITY AND STATE PORT ANGELES, WA	ELEVATION: 291	TDZE: 282	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 26, AMDT 1 4 FEBRUARY 2016	SUP:
	AIRPORT NAME:				AMDT: ORIG-B
	WILLIAM R FAIRCHILD INTL				DATED: 10/16/2014

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCLM
RUNWAY	RW26
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W26A
LTP/FTP LATITUDE	480703.3265N
LTP/FTP LONGITUDE	1232930.2300W
LTP/FTP ELLIPSOIDAL HEIGHT	+00655
FPAP LATITUDE	480725.7215N
FPAP LONGITUDE	1233138.9390W
THRESHOLD CROSSING HEIGHT (TCH)	00049.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.50
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1232
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 C523DE02

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+00856
FPAP ORTHOMETRIC HEIGHT	+00856

QUALITY
25
CHECKED

CITY AND STATE PORT ANGELES, WA	ELEVATION: 291 AIRPORT NAME: WILLIAM R FAIRCHILD INTL	TDZE: 282 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 26, AMDT 1 4 FEBRUARY 2016	SUP:
				AMDT: ORIG-B
				DATED: 10/16/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												Bearings, headings, courses, 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 in feet RVR.																																																																																																																																																																																																																																							
ARINC SUMMARY - KCLM ROUTES <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT SEQ</th> <th style="text-align: left;">WPT NAME</th> <th style="text-align: left;">LEG TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG CRS</th> <th style="text-align: left;">REC NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN DIR</th> <th style="text-align: left;">CENTER FIX</th> <th style="text-align: left;">TURN RADIUS</th> <th style="text-align: left;">ALTITUDE DESCRIPTION & VALUE</th> <th style="text-align: left;">SPEED LIMIT DESCRIPTION & VALUE</th> <th style="text-align: left;">WPT DESCRIPTION CODE</th> </tr> </thead> <tbody> <tr><td>JAWBN</td><td>010</td><td>JAWBN</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>JAWBN</td><td>020</td><td>COBUX</td><td>TF</td><td>FB</td><td>1.0</td><td>268.4</td><td></td><td></td><td></td><td></td><td></td><td>AA 03700</td><td></td><td>EE B</td></tr> <tr><td>WATTR</td><td>010</td><td>WATTR</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>WATTR</td><td>020</td><td>COBUX</td><td>TF</td><td>FB</td><td>1.0</td><td>229.8</td><td></td><td></td><td></td><td></td><td></td><td>AA 03700</td><td></td><td>EE B</td></tr> <tr><td></td><td>010</td><td>COBUX</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 03700</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>FAMUV</td><td>TF</td><td>FB</td><td>0.5</td><td>256.9</td><td></td><td></td><td></td><td>RW26</td><td></td><td>AA 03000</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>SEBTY</td><td>TF</td><td>FB</td><td>0.3</td><td>268.7</td><td></td><td>3.50</td><td></td><td></td><td></td><td>AA 01620 GS 01632</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>RW26</td><td>TF</td><td>FO</td><td>0.3</td><td>268.7</td><td></td><td>3.50</td><td></td><td></td><td></td><td>AT 00331</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td>CA</td><td>FB</td><td></td><td></td><td>268.7</td><td></td><td></td><td></td><td></td><td></td><td>AA 00691</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>MIDWI</td><td>DF</td><td>FB</td><td></td><td></td><td></td><td></td><td>R</td><td></td><td></td><td></td><td></td><td>E</td></tr> <tr><td></td><td>060</td><td>YUCSU</td><td>TF</td><td>FO</td><td>1.0</td><td>255.2</td><td></td><td></td><td></td><td></td><td></td><td>AA 04000</td><td></td><td>EY</td></tr> <tr><td></td><td>070</td><td>YUCSU</td><td>HM</td><td>FO</td><td></td><td>075.0</td><td></td><td></td><td>L</td><td></td><td></td><td>AA 04000</td><td></td><td>EE</td></tr> </tbody> </table> POINTS <table style="width:100%; 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[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31052](#); Amdt. No. [3674](#)]

**Standard Instrument Approach Procedures, and Takeoff Minimums
and Obstacle Departure Procedures; Miscellaneous Amendments**

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: This rule amends, suspends, or removes Standard Instrument Approach Procedures (SIAPs) and associated Takeoff Minimums and Obstacle Departure Procedures for operations at certain airports. These regulatory actions are needed because of the adoption of new or revised criteria, or because of changes occurring in the National Airspace System, such as the commissioning of new navigational facilities, adding new obstacles, or changing air traffic requirements. These changes are designed to provide for the safe and efficient use of the navigable airspace and to promote safe flight operations under instrument flight rules at the affected airports.

DATES: This rule is effective [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER]. The compliance date for each SIAP, associated Takeoff Minimums, and ODP is specified in the amendatory provisions.

The incorporation by reference of certain publications listed in the regulations is approved by the Director of the Federal Register as of [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: Availability of matter incorporated by reference in the amendment is as follows:

For Examination

1. U.S. Department of Transportation, Docket Ops-M30, 1200 New Jersey Avenue SE, West Bldg., Ground Floor, Washington, D.C., 20590-0001;

2. The FAA Air Traffic Organization Service Area in which the affected airport is located;

3. The office of Aeronautical Navigation Products, 6500 South MacArthur Blvd., Oklahoma City, OK 73169 or,

4. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to:

http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Availability

All SIAPs and Takeoff Minimums and ODPs are available online free of charge. Visit the National Flight Data Center online at nfdc.faa.gov to register. Additionally, individual SIAP and Takeoff Minimums and ODP copies may be obtained from the FAA Air Traffic Organization Service Area in which the affected airport is located.

FOR FURTHER INFORMATION CONTACT: Richard A. Dunham III,
Flight Procedure Standards Branch (AFS-420)Flight Technologies
and Procedures Division, Flight Standards Service, Federal
Aviation Administration, Mike Monroney Aeronautical Center,
6500 South MacArthur Blvd., Oklahoma City, OK. 73169 (Mail
Address: P.O. Box 25082 Oklahoma City, OK. 73125) telephone:
(405) 954-4164.

SUPPLEMENTARY INFORMATION:

This rule amends Title 14, Code of Federal Regulations,
Part 97 (14 CFR part 97) by amending the referenced SIAPs.
The complete regulatory description of each SIAP is listed on
the appropriate FAA Form 8260, as modified by the National
Flight Data Center (NFDC)/Permanent Notice to Airmen (P-
NOTAM), and is incorporated by reference under 5 U.S.C.
552(a), 1 CFR part 51, and 14 CFR §97.20. The large number
of SIAPs, their complex nature, and the need for a special
format make their verbatim publication in the **Federal Register**
expensive and impractical. Further, airmen do not use the
regulatory text of the SIAPs, but refer to their graphic
depiction on charts printed by publishers of aeronautical
materials. Thus, the advantages of incorporation by reference
are realized and publication of the complete description of
each SIAP contained on FAA form documents is unnecessary.

This amendment provides the affected CFR sections, and specifies the SIAPs and Takeoff Minimums and ODPs with their applicable effective dates. This amendment also identifies the airport and its location, the procedure and the amendment number.

Availability and Summary of Material Incorporated by Reference

The material incorporated by reference is publicly available as listed in the ADDRESSES section.

The material incorporated by reference describes SIAPs, Takeoff Minimums and ODPs as identified in the amendatory language for part 97 of this final rule.

The Rule

This amendment to 14 CFR part 97 is effective upon publication of each separate SIAP and Takeoff Minimums and ODP as amended in the transmittal. For safety and timeliness of change considerations, this amendment incorporates only specific changes contained for each SIAP and Takeoff Minimums and ODP as modified by FDC permanent NOTAMs.

The SIAPs and Takeoff Minimums and ODPs, as modified by FDC permanent NOTAM, and contained in this amendment are based on the criteria contained in the U.S. Standard for Terminal Instrument Procedures (TERPS). In developing these changes to SIAPs and Takeoff Minimums and ODPs, the TERPS criteria were applied only to specific conditions existing at the affected

airports. All SIAP amendments in this rule have been previously issued by the FAA in a FDC NOTAM as an emergency action of immediate flight safety relating directly to published aeronautical charts.

The circumstances that created the need for these SIAP and Takeoff Minimums and ODP amendments require making them effective in less than 30 days.

Because of the close and immediate relationship between these SIAPs, Takeoff Minimums and ODPs, and safety in air commerce, I find that notice and public procedure under 5 U.S.C. 553(b) are impracticable and contrary to the public interest and, where applicable, under 5 U.S.C. 553(d), good cause exists for making these SIAPs effective in less than 30 days.

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore--(1) is not a "significant regulatory action" under Executive Order 12866;(2) is not a "significant rule " under DOT Regulatory Policies and Procedures (44 FR 11034; February 26,1979) ; and (3)does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. For the same reason, the FAA certifies that this amendment will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR part 97:

Air Traffic Control, Airports, Incorporation by reference, and Navigation (Air).

Issued in Washington, DC on [DECEMBER 4, 2015](#)

A handwritten signature in black ink, appearing to read "John Duncan", with a long, sweeping horizontal line extending to the right.

John Duncan
Director, Flight Standards Service

ADOPTION OF THE AMENDMENT

Accordingly, pursuant to the authority delegated to me, Title 14, Code of Federal regulations, Part 97, (14 CFR part 97), is amended by amending Standard Instrument Approach Procedures and Takeoff Minimums and ODPs, effective at 0901 UTC on the dates specified, as follows:

PART 97 - STANDARD INSTRUMENT APPROACH PROCEDURES

1. The authority citation for part 97 continues to read as follows:

AUTHORITY: 49 U.S.C. 106(g), 40103, 40106, 40113, 40114, 40120, 44502, 44514, 44701, 44719, 44721-44722.

2. Part 97 is amended to read as follows:

By amending: §97.23 VOR, VOR/DME, VOR or TACAN, and VOR/DME or TACAN; §97.25 LOC, LOC/DME, LDA, LDA/DME, SDF, SDF/DME; §97.27 NDB, NDB/DME; §97.29 ILS, ILS/DME, MLS, MLS/DME, MLS/RNAV; §97.31 RADAR SIAPs; §97.33 RNAV SIAPs; and §97.35 COPTER SIAPs, Identified as follows:

.....EFFECTIVE UPON PUBLICATION

AIRAC DATE	STATE	CITY	AIRPORT	FDC NUMBER	FDC DATE	SUBJECT
7-Jan-16	WA	Everett	Snohomish County (Paine Fld)	5/4281	11/2/15	This NOTAM, published in TL 16-01, is hereby rescinded in its entirety.
AIRAC DATE	STATE	CITY	AIRPORT	FDC NUMBER	FDC DATE	SUBJECT
7-Jan-16	DC	Washington	Washington Dulles Intl	5/0756	11/24/15	ILS OR LOC/DME RWY 12, Amdt 9A
7-Jan-16	DC	Washington	Washington Dulles Intl	5/0758	11/24/15	ILS OR LOC/DME RWY 1C, Amdt 2B
7-Jan-16	DC	Washington	Washington Dulles Intl	5/0764	11/24/15	VOR/DME RWY 12, Amdt 9B
7-Jan-16	DC	Washington	Washington Dulles Intl	5/0765	11/24/15	RNAV (GPS) RWY 12, Amdt 1A
7-Jan-16	DC	Washington	Washington Dulles Intl	5/0766	11/24/15	RNAV (GPS) Y RWY 1C, Amdt 1A
7-Jan-16	TN	Smithville	Smithville Muni	5/2872	11/23/15	RNAV (GPS) RWY 6, Amdt 3
7-Jan-16	TN	Smithville	Smithville Muni	5/2873	11/23/15	RNAV (GPS) RWY 24, Amdt 3
7-Jan-16	VA	Lynchburg	Lynchburg Rgnl/ Preston Glenn Fld	5/4424	11/23/15	RNAV (GPS) RWY 4, Orig
7-Jan-16	VA	Lynchburg	Lynchburg Rgnl/ Preston Glenn Fld	5/4425	11/23/15	VOR RWY 4, Amdt 12
7-Jan-16	VA	Lynchburg	Lynchburg Rgnl/ Preston Glenn Fld	5/4426	11/23/15	RNAV (GPS) RWY 22, Orig
7-Jan-16	VA	Lynchburg	Lynchburg Rgnl/ Preston Glenn Fld	5/4427	11/23/15	VOR/DME RWY 22, Amdt 8B
7-Jan-16	VA	Lynchburg	Lynchburg Rgnl/ Preston Glenn Fld	5/4428	11/23/15	ILS OR LOC RWY 4, Amdt 17
7-Jan-16	SC	Charleston	Charleston Executive	5/8027	11/25/15	Takeoff Minimums and (Obstacle) DP, Amdt 1
7-Jan-16	GA	Macon	Middle Georgia Rgnl	5/8992	11/24/15	RNAV (GPS) RWY 5, Amdt 1B
7-Jan-16	GA	Macon	Middle Georgia Rgnl	5/8994	11/24/15	ILS OR LOC/DME RWY 5, Amdt 1B

AIRAC Date: 7 JANUARY 2016

FDC **5/0756** IAD IAP WASHINGTON DULLES INTL, WASHINGTON, DC. ILS OR LOC/DME RWY 12, AMDT 9A... S-LOC 12 MDA 740/HAT 430 ALL CATS, VIS CAT C RVR 4000. CHART FAS OBST: 471 T-L TWR 385716N/0773301W. THIS IS ILS OR LOC/DME RWY 12, AMDT 9B. 1508271952-PERM

FDC **5/0758** IAD IAP WASHINGTON DULLES INTL, WASHINGTON, DC. ILS OR LOC/DME RWY 1C, AMDT 2B... ILS RWY 1C (SA CAT II), AMDT 2B... S-LOC 1C MDA 620/HAT 334 ALL CATS. CHART FAS OBST: 366 TREE 385517N/0772726W. CHART 406 TREE 385321N/0772748W. CHANGE INOPERATIVE MALSR NOTE TO READ: FOR INOPERATIVE MALSR, INCREASE S-LOC CATS C/D VISIBILITY TO RVR 5000. THIS IS ILS OR LOC/DME RWY 1C, AMDT 2C; ILS RWY 1C (SA CAT II), AMDT 2C. 1508271955-PERM

FDC **5/0764** IAD IAP WASHINGTON DULLES INTL, WASHINGTON, DC. VOR/DME RWY 12, AMDT 9B... S-12 MDA 740/HAT 430. VIS CATS A/B RVR 2400. DELETE NOTE: FOR INOPERATIVE MALSR, INCREASE S-12 CATS A/B VISIBILITY TO 1 MILE AND CATS C/D VISIBILITY TO 1 1/8 MILE. CHANGE VDP TO AML 2.38 DME; DISTANCE VDP TO THLD 1.15 MILES. CHART FAS OBST: 478 T-L TWR 385633N/0773313W. THIS IS VOR/DME RWY 12, AMDT 9C. 1508271957-PERM

FDC **5/0765** IAD IAP WASHINGTON DULLES INTL, WASHINGTON, DC. RNAV (GPS) RWY 12, AMDT 1A... LNAV/VNAV DA 737/HAT 427. THIS IS RNAV (GPS) RWY 12, AMDT 1B. 1508271959-PERM

FDC **5/0766** IAD IAP WASHINGTON DULLES INTL, WASHINGTON, DC. RNAV (GPS) Y RWY 1C, AMDT 1A... LNAV/VNAV DA 801/HAT 515. THIS IS RNAV (GPS) Y RWY 1C, AMDT 1B. 1508272001-PERM

FDC **5/2872** 0A3 IAP SMITHVILLE MUNI, SMITHVILLE, TN. RNAV (GPS) RWY 6, AMDT 3... CHANGE THRE 1079 TO TDZE 1079. THIS IS RNAV (GPS) RWY 6, AMDT 3A. 1511131751-PERM

FDC **5/2873** 0A3 IAP SMITHVILLE MUNI, SMITHVILLE, TN. RNAV (GPS) RWY 24, AMDT 3... CHANGE THRE 1084 TO TDZE 1084. THIS IS RNAV (GPS) RWY 24, AMDT 3A. 1511131751-PERM

FDC **5/4424** LYH IAP LYNCHBURG RGNL/PRESTON GLENN FLD, LYNCHBURG, VA. RNAV (GPS) RWY 4, ORIG... LPV DA 1175 ALL CATS. LNAV/VNAV DA 1394 ALL CATS. LNAV HAT 495 ALL CATS AND VISIBILITY CAT C RVR 5000. TDZE 905. CIRCLING CAT A MDA 1660/HAA 722, CAT B MDA 1780/HAA 842. CHART CIRCLING ICON. ALTERNATE MINIMUMS STANDARD, EXCEPT CAT B 900-2, CAT C 900-2 1/2, CAT D 900-2 3/4. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. 34:1 IS CLEAR. THIS IS RNAV (GPS) RWY 4, ORIG-A. 1510282020-PERM

FDC **5/4425** LYH IAP LYNCHBURG RGNL/PRESTON GLENN FLD, LYNCHBURG, VA. VOR RWY 4, AMDT 12... S-4 HAT 495 ALL CATS AND VISIBILITY CAT C RVR 5000. TDZE 905. CIRCLING CAT A MDA 1660/HAA 722, CAT B MDA 1780/HAA 842. CHART CIRCLING ICON. ALTERNATE MINIMUMS STANDARD, EXCEPT CAT B 900-2, CAT C 900-2 1/2, CAT D 900-2 3/4. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHANGE INOPERATIVE MALSR NOTE TO READ: FOR INOPERATIVE MALSR, INCREASE S-4 CAT A/B VISIBILITY TO RVR 5500, CAT C/D VISIBILITY TO 1 3/8 MILE. THIS IS VOR RWY 4, AMDT 12A. 1510282020-PERM

FDC **5/4426** LYH IAP LYNCHBURG RGNL/PRESTON GLENN FLD, LYNCHBURG, VA. RNAV (GPS) RWY 22, ORIG... CHANGE HELICOPTER VISIBILITY NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CIRCLING CAT B MDA 1780/HAA 842. CHART CIRCLING ICON. ALTERNATE MINIMUMS STANDARD, EXCEPT CAT B 900-2, CAT C 900-2 1/2, CAT D 900-2 3/4. THIS IS RNAV (GPS) RWY 22, ORIG-A. 1510282020-PERM

FDC **5/4427** LYH IAP LYNCHBURG RGNL/PRESTON GLENN FLD, LYNCHBURG, VA. VOR/DME RWY 22, AMDT 8B... CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CIRCLING CAT B MDA 1780/HAA 842. CHART CIRCLING ICON.. THIS IS VOR/DME RWY 22, AMDT 8C. 1510282020-PERM

FDC **5/4428** LYH IAP LYNCHBURG RGNL/PRESTON GLENN FLD, LYNCHBURG, VA. ILS OR LOC RWY 4, AMDT 17... CIRCLING CAT B VISIBILITY 1 1/4. THIS IS ILS OR LOC RWY 4, AMDT 17A. 1510282020-PERM

FDC **5/8027** JZI ODP CHARLESTON EXECUTIVE, CHARLESTON, SC. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 1... ADD TAKEOFF OBSTACLE NOTE: RWY 9, ANTENNA 110 FT FROM DER, 444 FT LEFT OF CENTERLINE, 39 FT AGL/47 FT MSL. ALL OTHER DATA REMAINS AS PUBLISHED. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, AMDT 1A. 1511251615-PERM

FDC **5/8992** MCN IAP MIDDLE GEORGIA RGNL, MACON, GA. RNAV (GPS) RWY 5, AMDT 1B... LPV DA 544/HAT 200 ALL CATS. VIS RVR 2400 ALL CATS. LNAV VIS RVR 2400 CATS A/B. 34:1 IS CLEAR. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: FOR INOP MALSR, INCREASE LNAV CATS A/B VISIBILITY TO RVR 5500 AND CATS C/D VISIBILITY TO 1 3/8 MILE. DELETE NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV MINIMUMS. THIS IS RNAV (GPS) RWY 5, AMDT 1C. 1510192007-PERM

FDC **5/8994** MCN IAP MIDDLE GEORGIA RGNL, MACON, GA. ILS OR LOC/DME RWY 5, AMDT 1B... S-ILS 5* DA 544/HAT 200 ALL CATS. VIS RVR 2400 ALL CATS. *CAT A/B/C/D RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA. S-LOC 5 VIS RVR 2400 CATS A/B. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 5 CAT E VISIBILITY TO RVR 4000 AND S-LOC 5 CATS C/D/E VISIBILITY TO 1 3/8 MILES. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 5. DELETE NOTE: FOR INOP MALSR, INCREASE S-LOC 5 CATS A/B VISIBILITY TO RVR 5500 AND CATS C/D/E VISIBILITY TO 1 3/8 MILE. THIS IS ILS OR LOC/DME RWY 5, AMDT 1C. 1510192007-PERM