

U.S. Department
of Transportation

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

**Federal Aviation
Administration**

Transmittal Letter 17-05

January 13, 2017

**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.**

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31116](#); Amdt. No. [3731](#)]

**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: Thomas J. Nichols, 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, Navigation (Air).

Issued in Washington, DC on [JANUARY. 13, 2017](#)



John S. 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(f), 106(g), 40103, 40106, 40113, 40114, 40120, 44502, 44514, 44701, 44719, 44721-44722.

2. Part 97 is amended to read as follows:

Effective 2 March 2017

Lake Village, AR, Lake Village Muni, RNAV (GPS) RWY 1, Amdt 1
 Lake Village, AR, Lake Village Muni, RNAV (GPS) RWY 19, Amdt 1
 Lake Village, AR, Lake Village Muni, Takeoff Minimums and Obstacle DP, Amdt 1
 Oakdale, CA, Oakdale, VOR-A, Orig-C
 Santa Monica, CA, Santa Monica Muni, Takeoff Minimums and Obstacle DP, Amdt 7
 Santa Monica, CA, Santa Monica Muni, TOPANGA ONE, Graphic DP
 Augusta, GA, Daniel Field, RNAV (GPS) Y RWY 11, Amdt 2
 Centerville, IA, Centerville Muni, RNAV (GPS) RWY 16, Amdt 1
 Centerville, IA, Centerville Muni, RNAV (GPS) RWY 34, Orig-B
 Des Moines, IA, Des Moines Intl, ILS OR LOC RWY 31, ILS RWY 31 (SA CAT I), ILS RWY 31 (CAT II), ILS RWY 31 (CAT III), Amdt 23C
 Oskaloosa, IA, Oskaloosa Muni, NDB RWY 22, Amdt 4, CANCELED
 Murray, KY, Kyle-Oakley Field, LOC RWY 23, Amdt 2B
 Paducah, KY, Barkley Rgnl, ILS OR LOC RWY 4, Amdt 10C
 Paducah, KY, Barkley Rgnl, VOR RWY 4, Amdt 18B
 Paducah, KY, Barkley Rgnl, VOR/DME RWY 22, Amdt 6D
 Somerset, KY, Lake Cumberland Rgnl, ILS OR LOC/DME RWY 5, Orig-E
 Gonzales, LA, Louisiana Rgnl, RNAV (GPS) RWY 17, Amdt 1C
 Gonzales, LA, Louisiana Rgnl, Takeoff Minimums and Obstacle DP, Amdt 2
 Gonzales, LA, Louisiana Rgnl, VOR-A, Amdt 2B
 Gardner, MA, Gardner Muni, RNAV (GPS)-B, Orig-B
 Sanford, ME, Sanford Seacoast Rgnl, ILS OR LOC RWY 7, Amdt 4D
 Sanford, ME, Sanford Seacoast Rgnl, RNAV (GPS) RWY 7, Orig-C
 Sanford, ME, Sanford Seacoast Rgnl, RNAV (GPS) RWY 25, Orig-B
 Kalamazoo, MI, Kalamazoo/Battle Creek Intl, ILS OR LOC RWY 35, Amdt 23
 Kalamazoo, MI, Kalamazoo/Battle Creek Intl, VOR RWY 35, Amdt 18
 Cut Bank, MT, Cut Bank Intl, RNAV (GPS) RWY 14, Orig-A
 Cut Bank, MT, Cut Bank Intl, RNAV (GPS) RWY 23, Orig-A
 Cut Bank, MT, Cut Bank Intl, RNAV (GPS) RWY 32, Orig-A
 Cut Bank, MT, Cut Bank Intl, VOR RWY 32, Amdt 16A
 Concord, NH, Concord Muni, VOR-A, Orig-C
 Lebanon, NH, Lebanon Muni, ILS OR LOC RWY 18, Amdt 6A
 Lebanon, NH, Lebanon Muni, VOR RWY 7, Amdt 1E
 Portsmouth, NH, Portsmouth Intl At Pease, ILS OR LOC RWY 16, Amdt 2A
 Rochester, NH, Skyhaven, NDB RWY 33, Amdt 4C
 Rochester, NH, Skyhaven, VOR/DME-A, Amdt 2A
 Lakewood, NJ, Lakewood, RNAV (GPS) RWY 6, Amdt 1
 Lakewood, NJ, Lakewood, RNAV (GPS) RWY 24, Amdt 1
 Zuni Pueblo, NM, Black Rock, Takeoff Minimums and Obstacle DP, Amdt 1
 Coshocton, OH, Richard Downing, RNAV (GPS) RWY 22, Amdt 1
 Crossville, TN, Crossville Memorial-Whitson Field, ILS Y OR LOC Y RWY 26, Orig-B
 Crossville, TN, Crossville Memorial-Whitson Field, ILS Z OR LOC Z RWY 26, Amdt 14B

Crossville, TN, Crossville Memorial-Whitson Field, VOR/DME-A, Amdt 9A
Jamestown, TN, Jamestown Muni, VOR-A, Amdt 2
Livingston, TN, Livingston Muni, VOR/DME RWY 21, Amdt 5C
Rockwood, TN, Rockwood Muni, VOR/DME RWY 22, Amdt 6B
Crosbyton, TX, Crosbyton Muni, NDB RWY 35, Orig-C, CANCELED
Georgetown, TX, Georgetown Muni, RNAV (GPS) RWY 18, Amdt 2
Georgetown, TX, Georgetown Muni, RNAV (GPS) RWY 36, Amdt 2
Jonesville, VA, Lee County, RNAV (GPS) RWY 7, Amdt 2
Jonesville, VA, Lee County, RNAV (GPS) RWY 25, Amdt 2
Kenbridge, VA, Lunenburg County, RNAV (GPS)-A, Orig
Kenbridge, VA, Lunenburg County, RNAV (GPS)-B, Orig
Bremerton, WA, Bremerton National, RNAV (GPS) RWY 2, Amdt 2A
Portage, WI, Portage Muni, RNAV (GPS) RWY 18, Orig
Portage, WI, Portage Muni, RNAV (GPS)-A, Orig, CANCELED
Portage, WI, Portage Muni, VOR/DME RNAV OR GPS RWY 17, Amdt 4A, CANCELED
Prairie Du Chien, WI, Prairie Du Chien Muni, VOR/DME RWY 29, Amdt 8B, CANCELED

**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	
HEGOG (IF/IAF)	AKIDY (TF) (FB) (RNP 1.00)	014.84 / 7.54	1800	LP: RW01 LNAV: RW01
AKIDY (FAF)	WERVI/2.60 NM TO RW01 (TF) (FB) (RNP 0.30)	014.86 / 1.26		
WERVI/2.60 NM TO RW01	RW01 (MAP) (TF) (FO) (RNP 0.30)	014.86 / 2.60		CLIMB TO 2000 DIRECT OZIGE AND HOLD.
RW01 (MAP)	526 MSL	014.86		
526 MSL	OZIGE (DF) (FO) (RNP 1.00)		2000	

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 194.91 INBOUND.
CHART FAS OBST: 229 TREE 332013N/0911857W
CHART FAS OBST: 322 TWR 331850N/0912014W
WAAS CHANNEL # 82239
REFERENCE PATH ID: W01A
CHART CIRCLING ICON.
AKIDY TO RW01: 4.00/32.
CHART GREENVILLE ASOS.
LTP HAE: 12.2 M

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD **S** HEGOG, RT, 014.84 INBOUND, 2000 FT. IN LIEU OF PT (IAF)
- FAC: 014.86 FAF: AKIDY DIST FAF TO MAP: 3.86 THLD: 3.86
- MIN. ALT: **HEGOG 2000, AKIDY 1800, WERVI/2.60 NM TO RW01 1260**
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: GS ALT AT: OM: MM: IM:
- GS ANGLE: TCH: **34:1 IS NOT CLEAR**
- MSA FROM:

MAG VAR: **1W** EPOCH YEAR: **2020**

MINIMUMS

TAKEOFF: <u> </u> SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N <input type="checkbox"/> A <input checked="" type="checkbox"/> X <input type="checkbox"/>														
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
LP MDA	540	1	414	540	1	414		NA			NA				
LNAV MDA	620	1	494	620	1	494		NA			NA				
CIRCLING	620	1	494	720	1	594	720	1 1/2	594	720	2	594			

NOTES:
CHART NOTE: CIRCLING NA EAST OF RWY 1-19.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: USE GREENVILLE ALTIMETER SETTING.



CITY AND STATE LAKE VILLAGE, AR	ELEVATION: 126 TDZE: 126 AIRPORT NAME: LAKE VILLAGE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1 2 MARCH 2017	SUP: AMDT: ORIG-B DATED 09/17/2015
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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.

TAA	FROM	TO	ALT
1.	285/30 CW 105/30 (NOPT)	HEGOG (IF/IAF) (FB)	2000
2.	105/30 CW 285/30	HEGOG (IAF) (FO)	2000



CITY AND STATE LAKE VILLAGE, AR	ELEVATION: 126 TDZE: 126 AIRPORT NAME: LAKE VILLAGE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1 2 MARCH 2017	SUP:
				AMDT: ORIG-B
				DATED: 09/17/2015

**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	M32
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	332026.3445N
LTP/FTP LONGITUDE	0911902.2680W
LTP/FTP ELLIPSOIDAL HEIGHT	+00122
FPAP LATITUDE	332153.0090N
FPAP LONGITUDE	0911836.7660W
THRESHOLD CROSSING HEIGHT (TCH)	00032.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	04.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1408
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER 9E4CDE8B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00384
FPAP ORTHOMETRIC HEIGHT	+00384



CITY AND STATE LAKE VILLAGE, AR	ELEVATION: 126 TDZE: 126	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1 2 MARCH 2017	SUP:
	AIRPORT NAME: LAKE VILLAGE MUNI			AMDT: ORIG-B
				DATED: 09/17/2015

**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	
OZIGE (IF/IAF)	WUDAP (FB)	194.91 / 6.66	1700	LNAV: RW19 CLIMB TO 2000 DIRECT HEGOG AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 014.84 INBOUND. CHART FAS OBST: 231 TREE 332119N/0911917W WUDAP TO RW19: 3.00/40. CHART CIRCLING ICON. CHART GREENVILLE ASOS.
WUDAP (FAF)	SKEPS/2.60 NM TO RW19 (FB)	194.89 / 2.22		
SKEPS/2.60 NM TO RW19	RW19 (MAP) (FO)	194.89 / 2.60		
RW19 (MAP)	526 MSL	194.89		
526 MSL	HEGOG (FO)		2000	

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD N OZIGE, RT, 194.91 INBOUND, 2000 FT. IN LIEU OF PT (IAF)
- FAC: 194.89 FAF: WUDAP DIST FAF TO MAP: 4.82 THLD: 4.82
- MIN. ALT: OZIGE 2000, WUDAP 1700, SKEPS/2.60 NM TO RW19 980
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: GS ALT AT: OM: MM: IM:
- GS ANGLE: TCH: 34:1 IS NOT CLEAR
- MSA FROM:

MAG VAR: **1W** EPOCH YEAR: **2020**

MINIMUMS

TAKEOFF: <u> </u> SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N <input type="checkbox"/> A <input checked="" type="checkbox"/> X <input type="checkbox"/>														
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	540	1	415	540	1	415	540	1 1/8	415	540	1 1/8	415			
CIRCLING	620	1	494	720	1	594	720	1 1/2	594	720	2	594			

NOTES:
 CHART NOTE: CIRCLING NA EAST OF RWY 1-19.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 (CONTINUED ON PAGE 2)

CITY AND STATE LAKE VILLAGE, AR	ELEVATION: 126 TDZE: 125 AIRPORT NAME: LAKE VILLAGE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 1 2 MARCH 2017	SUP: 4 AMDT: ORIG B DATED 09/17/2015
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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.):
CHART PROFILE NOTE: VGSi AND DESCENT ANGLES NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: USE GREENVILLE ALTIMETER SETTING.

TAA	FROM	TO	ALT
1.	105/30 CW 285/30 (NOPT)	105/15 CW 285/15	2100
	105/15 CW 285/15 (NOPT)	OZIG (IF/IAF) (FB)	2000
2.	285/30 CW 105/30	OZIG (IAF) (FO)	2000

CITY AND STATE LAKE VILLAGE, AR	ELEVATION: 126 TDZE: 125 AIRPORT NAME: LAKE VILLAGE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 1 2 MARCH 2017	SUP: 4
				AMDT: ORIG-B
				DATED: 09/17/2015

QUALITY 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 - M32

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
OZIGE	010	OZIGE	HF	FO		194.9			R			AA 02000		EE A
	010	OZIGE	IF	FB								AA 02000		E I
	020	WUDAP	TF	FB	1.0	194.9						AA 01700		E F
	021	SKEPS	TF	FB	0.3	194.9		3.00				AA 00980 GS 00992		E S
	030	RW19	TF	FO	0.3	194.9		3.00				AT 00165		GY M
	040		CA	FB		194.9						AA 00526		M
	050	HEGOG	DF	FO								AA 02000		EY
	060	HEGOG	HM	FO		014.8			R			AA 02000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
OZIGE	N333218.71	W0911532.09
HEGOG	N330920.67	W0912217.67
SKEPS	N332340.33	W0911805.13
WUDAP	N332549.98	W0911726.90

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW19	N332108.60	W0911849.83	00125	40

CITY AND STATE LAKE VILLAGE, AR	ELEVATION: 126 TDZE: 125	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 1 2 MARCH 2017	SUP: QUALITY
	AIRPORT NAME: LAKE VILLAGE MUNI			AMDT: 4
				DATED: 09/17/2015

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
LAKE VILLAGE, AR	LAKE VILLAGE MUNI	2 MARCH 2017	1

TAKEOFF MINIMUMS:

RWY 1, 19: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 1, TREE 18 FT FROM DER, 187 FT LEFT OF CENTERLINE, 15 FT AGL/141 FT MSL.

RISING TERRAIN 18 FT FROM DER, 47 FT RIGHT OF CENTERLINE, 126 FT MSL.

TREES, BEGINNING 125 FT FROM DER, 159 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/204 FT MSL.

TREES, BEGINNING 1010 FT FROM DER, 387 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/192 FT MSL.

NOTE: RWY 19, RISING TERRAIN 14 FT FROM DER, 221 FT LEFT OF CENTERLINE, 127 FT MSL. BUSH 24 FT FROM DER, 194 FT RIGHT OF CENTERLINE, 6 FT AGL/131 FT MSL. CATENARY, BUSH, AND VEHICLES ON ROAD BEGINNING 96 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 29 FT AGL/154 FT MSL. POLES, BUILDINGS, ANTENNA, AND VEHICLES ON ROAD BEGINNING 216 FT FROM DER, 191 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/157 FT MSL. TREES BEGINNING 691 FT FROM DER, 221 FT RIGHT OF CENTERLINE, 58 FT AGL/179 FT MSL. TREE AND POLES BEGINNING 961 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 65 FT AGL/183 FT MSL. TREES, ANTENNA, AND POLE BEGINNING 1055 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 72 FT AGL/186 FT MSL. TREES BEGINNING 1405 FT FROM DER, 212 FT RIGHT OF CENTERLINE, UP TO 69 FT AGL/189 FT MSL. TREES AND ANTENNA BEGINNING 1636 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 74 FT AGL/199 FT MSL. TREES BEGINNING 1714 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 82 FT AGL/207 FT MSL. TREES BEGINNING 2210 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 91 FT AGL/212 FT MSL.

CONTROLLING OBSTACLES:

QUALITY
4
CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
LAKE VILLAGE, AR	LAKE VILLAGE MUNI	2 MARCH 2017	1

REMARKS:

FLIGHT INSPECTED BY:

Robin Caudle

Digitally signed by
STEVEN A VARGAS
Jan 04, 2017

OFFICE SYMBOL:

FICO

DATE:

8/30/2016

DEVELOPED BY:

THOMAS L KIRKPATRICK (LUCAS
MCCLOUD)

Digitally signed by
STEVEN A VARGAS
Jan 04, 2017

OFFICE SYMBOL:

AJV-5423

DATE:

06/30/2016

APPROVED BY:

TONY LAWSON

Digitally signed by
STEVEN A VARGAS
Jan 04, 2017

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

Routine

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

OTHER:

AMGR, STATE AERO, ZME.

CHANGES - REASONS:

UPDATED TAKEOFF NOTE OBSTACLES - DUE TO UPDATED DATABASE AND RUNWAY LENGTH EXTENSION OF 400 FT.

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
MOD VOR/DME (IF/IAF)	RECOT	027.12 / 6.00	2200

MAP: 4.68 NM AFTER RECOT OR AT WUBRO/10.68 DME FIX

CLIMB TO 3000 VIA HEADING 027 AND LIN R-124 TO WRAPS INT/LIN 16.66 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 124.12 INBOUND.
FAS OBST: 454 200' AAO 374500N/1204742W
FAC CROSSES MIDPOINT OF RWY 10-28.

MAG VAR: 17E EPOCH YEAR: 1965

- PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
- PROFILE STARTS AT MOD VOR/DME
- FAC 027.12 FAF RECOT DIST FAF TO MAP 4.68 THLD _____
- MIN. ALT MOD VOR/DME 3000, RECOT 2200
- MSA FROM: MOD VOR/DME 083-173 2300, 173-263 5100, 263-353 2800, 353-083 3500

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N	A	X												
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
CIRCLING	860	1	623	860	1	623		NA			NA				

NOTES:
CHART NOTE: USE MODESTO ALTIMETER SETTING, WHEN NOT RECEIVED, USE STOCKTON ALTIMETER SETTING AND INCREASE ALL MDA 40 FT.

CITY AND STATE OAKDALE, CA	ELEVATION: 237 AIRPORT NAME: OAKDALE	TDZE:	FACILITY IDENTIFIER: MOD	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, ORIG-C 2 MARCH 2017	SUP 4
					AMDT ORIG-B
					DATE 08/25/2011

QUALITY
4
ORIG-B
CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
SANTA MONICA, CA	SANTA MONICA MUNI	2 MARCH 2017	7

TAKEOFF MINIMUMS:
USE TOPANGA DEPARTURE

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

CONTROLLING OBSTACLES:

REMARKS:

FLIGHT INSPECTED BY: *Digitally signed by*
SCOTT THOMPSON **BEV L BORDY**
Dec 21, 2016

OFFICE SYMBOL: FIOG
DATE: 12/21/2016

DEVELOPED BY: *Digitally signed by*
SEAN BARBEE **SEAN BARBEE**
Nov 28, 2016

OFFICE SYMBOL: AJV-5431
DATE: 09/29/2016

APPROVED BY: *Digitally signed by*
PATRICK MULQUEEN **BEV L BORDY**
Dec 21, 2016

OFFICE SYMBOL: AJV-5430
DATE:

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:
ZLA, LAX APP CON, BUR APP CON, SMO ATCT, APT MGR

CHANGES - REASONS:
1. RE-CHARTED AS TOPANGA DEPARTURE IAW 8260.46F, PARA 2-1-1B(4).



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
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<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
TOPANGA	ONE	TPNGA1.TPNGA	NONE		2 MARCH 2017

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

RWY 3: CLIMBING RIGHT TURN TO 5000 ON SMO-210 AND ON LAX R-276 TO SADDE INT.

RWY 21: CLIMB TO 5000 ON SMO R-210 AND ON LAX R-276 TO SADDE INT.

VCOA:

RWY 3: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS SMO VOR/DME AT OR ABOVE 1400, THEN CONTINUE CLIMB TO 5000 ON SMO R-210 AND LAX R-276 TO SADDE INT.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
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PROCEDURAL DATA NOTES:

TAKEOFF MINIMUMS:

RWY 3: STANDARD WITH A MINIMUM CLIMB OF 330 FT PER NM TO 1100, OR 1400-2 1/2 FOR VCOA.

RWY 21: STANDARD.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 3: TREE, SIGN, ELEC SYS, LT STANDARD, AND POLE BEGINNING 27 FT FROM DER, 62 FT RIGHT OF CENTERLINE, UP TO 213 FT MSL. SIGN BEGINNING 64 FT FROM DER, 183 FT LEFT OF CENTERLINE, UP TO 6 FT AGL/181 FT MSL. TREE 326 FT FROM DER, 237 FT LEFT OF CENTERLINE, 206 FT MSL. TREES BEGINNING 365 FT FROM DER, 290 FT LEFT OF CENTERLINE, UP TO 207 FT MSL. TREE 473 FT FROM DER, 432 FT LEFT OF CENTERLINE, 213 FT MSL.

NOTE: RWY 21: SMO VOR/DME 106 FT FROM DER, 257 FT LEFT OF CENTERLINE, UP TO 18 FT AGL/122 FT MSL. TREE 145 FT FROM DER, 245 FT RIGHT OF CENTERLINE, 125 FT MSL. TREE 155 FT FROM DER, 306 FT RIGHT OF CENTERLINE, 130 FT MSL. ANT ON BLDG AND TREE BEGINNING 285 FT FROM DER, 260 FT RIGHT OF CENTERLINE, UP TO 150 FT MSL. TREE AND BLDG BEGINNING 470 FT FROM DER, 196 FT RIGHT OF CENTERLINE, UP TO 175 FT MSL. TREE 477 FT FROM DER, 51 FT LEFT OF CENTERLINE, 133 FT MSL. TREE, T-L TWR, AND POLE BEGINNING 688 FT FROM DER, 285 FT RIGHT OF CENTERLINE, UP TO 196 FT MSL.

CONTROLLING OBSTACLES:

RWY 3: 866 FT MSL BUILDING 340332.00N/1182447.00W

VCOA: 1124 FT MSL AAO 340436.00/1182826.00W

LOST COMMUNICATIONS PROCEDURES:

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)

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<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
TOPANGA	ONE	TPNGA1.TPNGA	NONE		2 MARCH 2017

ADDITIONAL FLIGHT DATA:

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
SANTA MONICA MUNI	SANTA MONICA	CA

COMMUNICATIONS:

ATIS, SANTA MONICA ATCT, SOCAL DEP CON

FIXES AND/OR NAVAIDS:

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

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<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
TOPANGA	ONE	TPNGA1.TPNGA	NONE		2 MARCH 2017

REMARKS:

FLIGHT INSPECTED BY: *Digitally signed by*
SCOTT A. THOMPSON **DONALD H LANIER**
Jan 03, 2017

OFFICE SYMBOL: FICO
DATE: 12/28/2016

DEVELOPED BY: *Digitally signed by*
SEAN BARBEE **SEAN BARBEE**
Nov 28, 2016

OFFICE SYMBOL: AJV-5431
DATE: 10/05/2016

APPROVED BY: *Digitally signed by*
PATRICK MULQUEEN **DONALD H LANIER**
Jan 03, 2017

OFFICE SYMBOL: AJV-5430
DATE:

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

CHANGES - REASONS:
ORIGINAL - WESTERN FPT REQUEST.



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	
INIKE (IAF)	JODVU (NOPT) (FB)	197.61 / 6.40	2100	LNAV: RW11
FOGOB (IAF)	JODVU (NOPT) (FB)	017.58 / 6.40	2100	
JODVU (IF/IAF)	JITOL (FB)	107.59 / 6.70	2000	
JITOL (FAF)	RW11 (MAP) (FO)	107.67 / 4.10	1400	
RW11 (MAP)	1400 MSL	107.67	1400	CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 2100 DIRECT JODVU AND HOLD.
1400 MSL	JODVU (FO)		2100	

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 572 TREE 332920N/0820629W
729 AAO 332921N/0820639W
CHART: ASR.
CHART CIRCLING ICON.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD W JODVU, RT, 107.59 INBOUND, 2100 FT. IN LIEU OF PT (IAF)
3. FAC: 107.67 FAF: JITOL DIST FAF TO MAP: 4.10 THLD: 4.10
4. MIN. ALT: JODVU 2100, JITOL 2000
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:

MAG VAR: **4W** EPOCH YEAR: **1990**

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	840	1	418	840	1	418	840	1 1/8	418	840	1 1/8	418			
CIRCLING	920	1	498	920	1	498	1400	3	978	1400	3	978			

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AUGUSTA RGNL AT BUSH FIELD ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND INCREASE LNAV CAT C AND D VISIBILITY 1/4 SM.
CHART NOTE: RWY 11 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
@ CAT C, D 1000-3



CITY AND STATE AUGUSTA, GA	ELEVATION: 422 TDZE: 422 AIRPORT NAME: DANIEL FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 11, AMDT 2 2 MARCH 2017	SUP: RNAV (GPS) RWY 11 AMDT: 1A DATED 09/17/2015
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TAA	FROM	TO	ALT
1.	018/30 CW 198/30 (NOPT)	018/8 CW 198/8	2900
2.	018/8 CW 198/8	JODVU (IF/IAF) (FB)	2100
3.	198/30 CW 288/30	INIKE (IAF) (FB)	3000
4.	288/30 CW 018/30	FOGOB (IAF) (FB)	3000



CITY AND STATE AUGUSTA, GA	ELEVATION: 422 TDZE: 422 AIRPORT NAME: DANIEL FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 11, AMDT 2 2 MARCH 2017	SUP: RNAV (GPS) RWY 11
				AMDT: 1A
				DATED: 09/17/2015

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 - KDNL

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
FOGOB	010	FOGOB	IF	FB										E A
FOGOB	020	JODVU	TF	FB	1.0	017.6						AA 02100		EE B
INIKE	010	INIKE	IF	FB										E A
INIKE	020	JODVU	TF	FB	1.0	197.6						AA 02100		EE B
JODVU	010	JODVU	HF	FO		107.6			R			AA 02100		EE A
	010	JODVU	IF	FB								AA 02100		E I
	020	JITOL	TF	FB	1.0	107.6						AA 02000		E F
	030	RW11	TF	FO	0.3	107.7		3.50				AT 00476		GY M
	040		CA	FB		107.7						AA 01400		M
	050	JODVU	DF	FO					L			AA 02100		EY
	060	JODVU	HM	FO		107.6			R			AA 02100		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FOGOB	N332429.53	W0821702.14
INIKE	N333657.40	W0821326.24
JITOL	N332908.57	W0820727.14
JODVU	N333043.48	W0821514.32

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW11	N332810.23	W0820241.31	00422	54.3

QUALITY
14
CHECKED

CITY AND STATE AUGUSTA, GA	ELEVATION: 422 TDZE: 422	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Y RWY 11, AMDT 2 2 MARCH 2017	SUP: RNAV (GPS) RWY 11
	AIRPORT NAME: DANIEL FIELD			AMDT: 1A
				DATED: 09/17/2015

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

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHARITON ALTIMETER SETTING AND INCREASE ALL DA 71 FEET AND ALL VISIBILITIES 1/8 SM AND ALL MDA 80 FEET.

TAA	FROM	TO	ALT
1.	068/30 CW 248/30 (NOPT)	EJKAX (IF/IAF) (FB)	3000
2.	248/30 CW 068/30	EJKAX (IF/IAF) (FO)	3000



CITY AND STATE CENTERVILLE, IA	ELEVATION: 1023 TDZE: 1023 AIRPORT NAME: CENTERVILLE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16, AMDT 1 2 MARCH 2017	SUP:
				AMDT: ORIG
				DATED: 06/03/2010

**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	KTVK
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	404122.8040N
LTP/FTP LONGITUDE	0925413.2595W
LTP/FTP ELLIPSOIDAL HEIGHT	+02790
FPAP LATITUDE	403959.7570N
FPAP LONGITUDE	0925330.6510W
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	1504
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER A8EE03D0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03111
FPAP ORTHOMETRIC HEIGHT	+03111



CITY AND STATE CENTERVILLE, IA	ELEVATION: 1023	TDZE: 1023	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16, AMDT 1 2 MARCH 2017	SUP:
	AIRPORT NAME: CENTERVILLE MUNI				AMDT: ORIG
					DATED: 06/03/2010

**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	
UVODE (IAF)	JODIV (TF) (FB) (RNP 1.00)	067.66 / 5.00	3000	LPV: DA LNAV/VNAV: DA LNAV: RW34
NEMLE (IAF)	JODIV (TF) (FB) (RNP 1.00)	247.80 / 5.00	3000	
JODIV (IF/IAF)	AYFAH (TF) (FB) (RNP 1.00)	337.73 / 6.10	2700	CLIMB TO 3000 DIRECT EJKAX AND HOLD.
AYFAH (FAF)	RW34 (MAP) (TF) (FO) (RNP 0.30)	337.70 / 5.08		
RW34 (MAP)	1273 MSL	337.70		ADDITIONAL FLIGHT DATA: HOLD N, RT, 157.60 INBOUND. FAS OBST: 1239 AAO 403648N/0925043W DISTANCE TO THLD FROM 250 HAT: 0.67 NM. CHART VDP AT 0.88 NM TO RW34* *LNAV ONLY. WAAS CHANNEL # 86517 REFERENCE PATH ID: W34A CHART CIRCLING ICON. LTP HAE: 278.8 M
1273 MSL	EJKAX (DF) (FO) (RNP 1.00)		3000	

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD **S** JODIV, RT, 337.73 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 337.70 FAF: AYFAH DIST FAF TO MAP: 5.08 THLD: 5.08
4. MIN. ALT: **JODIV 3000, AYFAH 2700**
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2700 GS ALT AT: AYFAH 2700 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR
8. MSA FROM:

MAG VAR: 1E EPOCH YEAR: 2010

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A														
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	1273	1	250	1273	1	250		NA			NA				
LNAV/VNAV DA	1349	1 1/4	326	1349	1 1/4	326		NA			NA				
LNAV MDA	1500	1	477	1500	1	477		NA			NA				
CIRCLING	1500	1	477	1500	1	477		NA			NA				

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 46C (114F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CHARITON ALTIMETER SETTING.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHARITON ALTIMETER SETTING AND INCREASE ALL DA 71 FEET AND ALL MDA 80 FEET. INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/4 SM.



CITY AND STATE CENTERVILLE, IA	ELEVATION: 1023 TDZE: 1023 AIRPORT NAME: CENTERVILLE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMD T NO./EFFECTIVE DATE: RNAV (GPS) RWY 34, ORIG-B 2 MARCH 2017	SUP: AMD T: ORIG-A DATED 12/16/2010
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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.

TAA	FROM	TO	ALT
1.	248/30 CW 068/30 (NOPT) 248/10 CW 068/10	248/10 CW 068/10 JODIV (IF/IAF) (FB)	3100 3000
2.	068/30 CW 158/30	UVODE (IAF) (FB)	3000
3.	158/30 CW 248/30	NEMLE (IAF) (FB)	3000



CITY AND STATE CENTERVILLE, IA	ELEVATION: 1023 TDZE: 1023 AIRPORT NAME: CENTERVILLE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 34, ORIG-B 2 MARCH 2017	SUP:
				AMDT: ORIG-A
				DATED: 12/16/2010

**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	KTVK
RUNWAY	RW34
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	404045.0820N
LTP/FTP LONGITUDE	0925353.9010W
LTP/FTP ELLIPSOIDAL HEIGHT	+02788
FPAP LATITUDE	404208.1300N
FPAP LONGITUDE	0925436.5100W
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	1504
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER BAB8959B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03109
FPAP ORTHOMETRIC HEIGHT	+03109



CITY AND STATE CENTERVILLE, IA	ELEVATION: 1023	TDZE: 1023	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 34, ORIG-B 2 MARCH 2017	SUP:
	AIRPORT NAME: CENTERVILLE MUNI				AMDT: ORIG-A
					DATED: 12/16/2010

**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: 4.20 NM AFTER FOREM INT/I-DSM 5.81 DME OR AT I-DSM 1.61 DME
TNU VOR/DME	CYCLN INT/I-DSM 11.93 DME	214.11 / 27.85	3000	CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 180 AND DSM VORTAC R-254 TO MIDLE INT/12.00 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 4000 THEN RIGHT TURN ON HEADING 107 AND TNU VOR/DME R-259 TO ANKEN INT AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 074.11 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E ANKEN INT, RT, 258.66 INBOUND. FAS OBST: 1059 TREE 413050N/0933725W CHART VDP AT 2.57 DME* DISTANCE VDP TO THLD 0.96 NM. *LOC ONLY. CHART IN PLANVIEW: ANKEN INT.
DSM VORTAC	CYCLN INT/I-DSM 11.93 DME	094.04 / 7.70	3000	
CYCLN INT/I-DSM 11.93 DME (IF/IAF)	FOREM INT/I-DSM 5.81 DME	311.35 / 6.12 (I-DSM)	2400	

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SE CYCLN, RT, 311.35 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 311.35 FAF: FOREM INT/I-DSM 5.81 DME DIST FAF TO MAP: 4.20 THLD: 4.20
4. MIN. ALT: CYCLN 3000, FOREM 2400
5. DIST TO THLD FROM OM: MM: IM: 925 150 HAT: 1862 100 HAT: 908 GS ANT: 1103
6. MIN GS INCPT: 2400 GS ALT AT: FOREM 2365 OM: MM: IM: 1058
7. GS ANGLE: 3.00 TCH: 52.4
8. MSA FROM: DSM VORTAC 060-330 2800, 330-060 4000

MAG VAR: 1E EPOCH YEAR: 2020

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 31	1158	1800	200	1158	1800	200	1158	1800	200	1158	1800	200	1158	1800	200
S-LOC 31	1320	2400	362	1320	2400	362	1320	3500	362	1320	3500	362	1320	3500	362
CIRCLING	1420	1	462	1420	1	462	1420	1 1/2	462	1520	2	562	1760	2 3/4	802

NOTES:
SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 31: CAT A, B, C, D, RA 150, RVR 1400, HAT 150, DA 1108 MSL.
CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 31: CAT A, B, C, D, RA 101, RVR 1200, HAT 100, DA 1058 MSL.
 (CONTINUED ON PAGE 2)

CAT E 900-2 3/4
 @ CAT E 900-2 3/4



CITY AND STATE DES MOINES, IA	ELEVATION: 958 TDZE: 958 AIRPORT NAME: DES MOINES INTL	FACILITY IDENTIFIER: I-DSM	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 31, AMDT 23C; ILS RWY 31 (SA CAT I), ILS RWY 31 (CAT II), ILS RWY 31 (CAT III) 2 MARCH 2017	SUP: AMDT: 23B DATED 02/05/2015
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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.

NOTES, (CONT.):
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 31: CAT III CAT A,B,C,D, RVR 600.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 31 CAT E VISIBILITY TO RVR 4000 AND S-LOC 31 VISIBILITY TO RVR 6000.



CITY AND STATE DES MOINES, IA	ELEVATION: 958 AIRPORT NAME: DES MOINES INTL	TDZE: 958	FACILITY IDENTIFIER: I-DSM	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 31, AMDT 23C; ILS RWY 31 (SA CAT I), ILS RWY 31 (CAT II), ILS RWY 31 (CAT III) 2 MARCH 2017	SUP:
					AMDT: 23B
					DATED: 02/05/2015

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

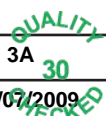
ALTERNATE: N A

CATEGORY =====>	MDA	VIS	MDA	VIS	MDA	VIS	MDA	VIS	MDA	VIS	MDA	VIS

NOTES:

PROCEDURE CANCELED EFFECTIVE 2 MARCH 2017

CITY AND STATE OSKALOOSA, IA	ELEVATION: 841 TDZE: 840 AIRPORT NAME: OSKALOOSA MUNI	FACILITY IDENTIFIER: OOA	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 22, AMDT 4, 10/22/2009	SUP AMDT 3A DATE 05/07/2009
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U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
LOC STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - 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.

TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CNG VOR/DME	MUREY LOM	120.07 / 31.48	3000

MAP: 4.71 NM AFTER MUREY LOM

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2100 DIRECT MUREY LOM AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NE, RT, 231.89 INBOUND.
FAS OBST: 729 AAO 364203N/0881816W
CHART IN PLANVIEW: (XBOWW) AT 364706.37N-0881141.07W
MUREY LOM TO RWY23: 2.99/38
CHART PLANVIEW NOTE: ADF REQUIRED.

1. PT L SIDE OF COURSE 051.89 OUTBOUND 2200 FT WITHIN 10 MILES OF MUREY LOM (IAF)
- 2.
3. FAC 231.89 FAF MUREY LOM DIST FAF TO MAP 4.71 THLD 4.71
4. MIN. ALT MUREY LOM 2100
8. MSA FROM: EU LOM 2400

MAG VAR: **2W** EPOCH YEAR: **2010**

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		X							
CATEGORY =====>	A			B			C			D			E			
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-23	980	3/4	412	980	3/4	412	980	1	412	980	1	412				
CIRCLING	1000	1	423	1040	1	463	1040	1 1/2	463	1140	2	563				

NOTES:
CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: ADF REQUIRED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE MAYFIELD ALTIMETER SETTING: INCREASE
(CONTINUED ON PAGE 2)



CITY AND STATE MURRAY, KY	ELEVATION: 577 TDZE: 568 AIRPORT NAME: KYLE-OAKLEY FIELD	FACILITY IDENTIFIER: I-EUY	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LOC RWY 23, AMDT 2B 2 MARCH 2017	SUP
				AMDT 2A
				DATE 04/30/2015

**LOC STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - 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.

NOTES, (CONT.):

ALL MDA 40 FEET AND INCREASE S-23 CATS C AND D VISIBILITY 1/8 MILE.
CHART NOTE: FOR INOPERATIVE ODALS, INCREASE S-23 CATS C AND D VISIBILITY 1/4 MILE.



CITY AND STATE MURRAY, KY	ELEVATION: 577 TDZE: 568 AIRPORT NAME: KYLE-OAKLEY FIELD	FACILITY IDENTIFIER: I-EUY	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LOC RWY 23, AMDT 2B 2 MARCH 2017	SUP:
				AMDT: 2A
				DATED: 04/30/2015

**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: 3.78 NM AFTER HABAN OM**

**CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 2100 DIRECT
CNG VOR/DME.**

**ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 044.69 INBOUND.
FAS OBST: 599 TREE 370050N/0884919W
CHART IN PLANVIEW: (CFNQR) AT 365602.25N/0885525.26W**

- PT L SIDE OF COURSE 224.69 OUTBOUND 2100 FT WITHIN 10 MILES OF CNG VOR/DME (IAF)
-
- FAC: 044.69 FAF: HABAN OM DIST FAF TO MAP: 3.78 THLD: 3.78
- MIN. ALT: HABAN OM 1700
- DIST TO THLD FROM OM: 3.78 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1119
- MIN GS INCPT: 1700 GS ALT AT: - OM: 1673 MM: - IM: -
- GS ANGLE: 2.98 TCH: 55.8
- MSA FROM: CNG VOR/DME 360-270 2400, 270-360 3000

MAG VAR: **1W** EPOCH YEAR: **2005**

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 04	610	1/2	200	610	1/2	200	610	1/2	200	610	1/2	200			
S-LOC 04	860	1/2	450	860	1/2	450	860	7/8	450	860	7/8	450			
CIRCLING	900	1	490	900	1	490	900	1 1/2	490	960	2	550			

NOTES:
CHART NOTE: CIRCLING TO RWY 14 NA AT NIGHT. # @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MAYFIELD ALTIMETER SETTING AND INCREASE DA TO 671, AND ALL MDA 80 FEET, AND INCREASE S-LOC 4 CAT C, D VISIBILITY 1/8 MILE.

CITY AND STATE PADUCAH, KY	ELEVATION: 410 TDZE: 410 AIRPORT NAME: BARKLEY RGNL	FACILITY IDENTIFIER: I-PAH	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 4, AMDT 10C 2 MARCH 2017	SUP: AMDT: 4 10B DATED 09/18/2014
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**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

MAP: 3.78 NM AFTER CNG VOR/DME OR AT CNG 3.78 DME FIX

CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 2100 DIRECT CNG VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
**HOLD SW, RT, 041.71 INBOUND.
CHART FAS OBST: 609 TREE 370246N/0884912W
CHART VDP AT 2.58 DME
DISTANCE VDP TO THLD 1.21 NM.
CNG VOR/DME TO RW04: 3.08/55.**

- PT L SIDE OF COURSE 221.71 OUTBOUND 2100 FT WITHIN 10 MILES OF CNG VOR/DME (IAF)
-
- FAC 041.71 FAF CNG VOR/DME DIST FAF TO MAP 3.78 THLD 3.78
- MIN. ALT CNG VOR/DME 1700
- MSA FROM: CNG VOR/DME 360-270 2400, 270-360 3000

MAG VAR: **3E** EPOCH YEAR: **1975**

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A	#														
CATEGORY =====>	A			B			C			D			E			
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-04	860	1/2	450	860	1/2	450	860	3/4	450	860	1	450				
CIRCLING	900	1	490	900	1	490	900	1 1/2	490	960	2	550				

NOTES:

CHART NOTE: CIRCLING TO RWY 14 NA AT NIGHT. # NA WHEN LOCAL WEATHER NOT AVAILABLE.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MAYFIELD ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET, AND INCREASE S-4 CAT C AND D VISIBILITY 1/4 MILE.

CHART NOTE: VDP NA WHEN USING MAYFIELD ALTIMETER SETTING

CITY AND STATE PADUCAH, KY	ELEVATION: 410 TDZE: 410 AIRPORT NAME: BARKLEY RGNL	FACILITY IDENTIFIER: CNG	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 4, AMDT 18B 2 MARCH 2017	SUP 4 AMDT 18A DATE 08/22/2013
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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
CNG VOR/DME	SPENT/CNG 10.06 DME	041.48 / 10.06	2600
UBJUF/CNG 20.57 DME CW (IAF)	ISUKY/CNG 20.57 DME (NOPT)	20.57 DME ARC	2600
VERTS/CNG 20.57 DME CCW (IAF)	ISUKY/CNG 20.57 DME (NOPT)	20.57 DME ARC	2600
ISUKY/CNG 20.57 DME (IF)	SPENT/CNG 10.06 DME	221.48 / 10.51	2100

MAP: CNG 4.85 DME

CLIMB TO 2600 DIRECT CNG VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2600.

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 041.00 INBOUND.
FAS OBST: 599 AAO 370518N/0884157W
CHART CNG R-346 AT UBJUF.
CHART CNG R-070 AT VERTS.
CHART 2400 PRIOR TO SPENT IN PROFILE.
SPENT TO RW22: 3.00/59.

- PT L SIDE OF COURSE 041.48 OUTBOUND 2200 FT WITHIN 10 MILES OF SPENT (IAF)
-
- FAC 221.48 FAF SPENT/CNG 10.06 DME DIST FAF TO MAP _____ THLD 5.21
- MIN. ALT SPENT 2100
- MSA FROM: **CNG VOR/DME 360-270 2400, 270-360 3000**

MAG VAR: 3E EPOCH YEAR: 1975

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			STANDARD @					
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-22	860	1	458	860	1	458	860	1 3/8	458	860	1 3/8	458			
CIRCLING	900	1	490	900	1	490	900	1 1/2	490	960	2	550			

NOTES:

CHART NOTE: CIRCLING TO RWY 14 NA AT NIGHT. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.

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

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CNG VOR/DME AIRWAY RADIALS 346 CW 070.

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

(CONTINUED ON PAGE 2)

CITY AND STATE PADUCAH, KY	ELEVATION: 410 TDZE: 402	FACILITY IDENTIFIER: CNG	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 22, AMDT 6D 2 MARCH 2017	SUP
	AIRPORT NAME: BARKLEY RGNL			AMDT 4
	DATE 11/13/2014			CHECKED 6C

**VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23**

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MAYFIELD ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET AND INCREASE S-22 CAT C, D VISIBILITY 1/2 MILE AND CIRCLING CAT C VISIBILITY 1/8 MILE.

CITY AND STATE PADUCAH, KY	ELEVATION: 410 AIRPORT NAME: BARKLEY RGNL	TDZE: 402	FACILITY IDENTIFIER: CNG	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 22, AMDT 6D 2 MARCH 2017	SUP: 4
					AMDT: 6C
					DATED: 11/13/2014

QUALITY

CHECKED

**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	
LOZ VOR/DME	CDX NDB	268.57 / 27.54	3700	ILS: DA LOC: 6.26 NM AFTER HIPOD/I-SME 7.20 DME OR AT I-SME 0.94 DME FIX CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT CDX NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ALTERNATE MA (DO NOT CHART): ; OR WHEN DIRECTED BY ATC, CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3700 DIRECT LOZ VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 047.89 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E LOZ VOR/DME, RT, 268.61 INBOUND. CHART FAS OBST: 1190 TREE 370215N/0843820W CHART IN PLANVIEW: LOZ VOR/DME. CHART MAXIMUM PROCEDURE TURN ENTRY ALTITUDE AT 6000.
LVT VOR/DME (IAF)	SITOW INT/I-SME 13.45 DME (NOPT)	045.51 / 25.75	3700	
SITOW INT/I-SME 13.45 DME (IF)	HIPOD/I-SME 7.20 DME	047.89 / 6.26 (I-SME)	3000	

- PT L SIDE OF COURSE 227.89 OUTBOUND 3000 FT WITHIN 10 MILES OF CDX NDB (IAF)
-
- FAC: 047.89 FAF: HIPOD/I-SME 7.20 DME DIST FAF TO MAP: _____ THLD: 6.26
- MIN. ALT: HIPOD 3000
- DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____
- MIN GS INCPT: 3000 GS ALT AT: HIPOD/I-SME 7.20 DME 3000 OM: _____ MM: _____ IM: _____
- GS ANGLE: 3.00 TCH: 58.7
- MSA FROM: CDX NDB 3600

MAG VAR: **5W** EPOCH YEAR: **2005**

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A	ILS: #	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 05	1482	2	555	1482	2	555	1482	2	555	1482	2	555			
S-LOC 05	1460	1	533	1460	1	533	1460	1 1/2	533	1460	1 3/4	533			
CIRCLING	1620	1	693	1720	1 1/4	793	1720	2 1/4	793	1740	2 3/4	813			

NOTES:
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: ADF REQUIRED.
 CHART PROFILE NOTE: GS UNUSABLE FOR COUPLED APPROACH BELOW 1620.
 CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.
 (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 # CAT A 700-2, CAT B 800-2, CAT C 800-2 1/4,
 CAT D 900-2 3/4
 @ CAT C 800-2 1/4, CAT D 900-2 3/4

QUALITY
4
CHECKED
ORIG-D

CITY AND STATE SOMERSET, KY	ELEVATION: 927 TDZE: 927 AIRPORT NAME: LAKE CUMBERLAND RGND	FACILITY IDENTIFIER: I-SME	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 5, ORIG-E 2 MARCH 2017	SUP: AMDT: DATED 06/23/2016
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON LVT VOR/DME AIRWAY RADIALS 350 CW 064.

CHART NOTE: NIGHT LANDING: RWY 23 NA.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MONTICELLO ALTIMETER SETTING AND INCREASE DA 44 FEET AND ALL MDA 60 FEET; INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE.

QUALITY
4
CHECKED
ORIG-D

CITY AND STATE SOMERSET, KY	ELEVATION: 927 AIRPORT NAME: LAKE CUMBERLAND RGNL	TDZE: 927	FACILITY IDENTIFIER: I-SME	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 5, ORIG-E 2 MARCH 2017	SUP:
					AMDT:
					DATED: 06/23/2016

**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	
LSU VORTAC (IAF)	AYUYE (NOPT) (TF) (FB) (RNP 1.00)	111.86 / 18.20	2000	LPV: DA LNAV/VNAV: DA LNAV: RW17
DILLS (IAF)	AYUYE (NOPT) (TF) (FB) (RNP 1.00)	185.21 / 8.54	2000	CLIMB TO 2000 DIRECT EDUYA AND HOLD.
AYUYE (IF/IAF)	FENPA (TF) (FB) (RNP 1.00)	169.44 / 6.01	1700	
FENPA (FAF)	RW17 (MAP) (TF) (FO) (RNP 0.30)	169.45 / 5.10		ADDITIONAL FLIGHT DATA: HOLD S, RT, 349.48 INBOUND. FAS OBST: 219 AAO 301436N/0905650W CHART: 514 TOWER 301515N/0905638W DISTANCE TO THLD FROM 394 HAT: 1.11 NM. WAAS CHANNEL # 78429 REFERENCE PATH ID: W17A CHART BATON ROUGE ASOS. LTP HAE: -22.9 M
RW17 (MAP)	407 MSL	169.45		
407 MSL	EDUYA (DF) (FO) (RNP 1.00)		2000	

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD N AYUYE, RT, 169.44 INBOUND, 2000 FT. IN LIEU OF PT (IAF)
3. FAC: 169.45 FAF: FENPA DIST FAF TO MAP: 5.10 THLD: 5.10
4. MIN. ALT: AYUYE 2000, FENPA 1700
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1700 GS ALT AT: FENPA 1700 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
8. MSA FROM: RW17 3100

MAG VAR: 2E EPOCH YEAR: 1995

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A <input checked="" type="checkbox"/> 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	407	1 3/8	394	407	1 3/8	394	407	1 3/8	394	407	1 3/8	394			
LNAV/VNAV DA	471	1 5/8	458	471	1 5/8	458	471	1 5/8	458	471	1 5/8	458			
LNAV MDA	540	1	527	540	1	527	540	1 1/2	527	540	1 1/2	527			
CIRCLING	540	1	526	580	1	566	620	1 3/4	606	640	2	626			

NOTES:
 CHART NOTE: BARO-VNAV NA.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DILLS ON V566 NORTHWEST BOUND.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON LSU VORTAC AIRWAY RADIALS 041 CW 106.
 (CONTINUED ON PAGE 2)



CITY AND STATE GONZALES, LA	ELEVATION: 14 TDZE: 13 AIRPORT NAME: LOUISIANA RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 1C 2 MARCH 2017	SUP: AMDT: 1B DATED 04/30/2015
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
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: USE BATON ROUGE ALTIMETER SETTING.
 CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.



CITY AND STATE GONZALES, LA	ELEVATION: 14 TDZE: 13 AIRPORT NAME: LOUISIANA RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 1C 2 MARCH 2017	SUP:
				AMDT: 1B
				DATED: 04/30/2015

**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	KREG
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	301041.4085N
LTP/FTP LONGITUDE	0905629.6305W
LTP/FTP ELLIPSOIDAL HEIGHT	-00229
FPAP LATITUDE	300913.0900N
FPAP LONGITUDE	0905614.3700W
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	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER F4A0B337

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00038
FPAP ORTHOMETRIC HEIGHT	+00038



CITY AND STATE GONZALES, LA	ELEVATION: 14 TDZE: 13 AIRPORT NAME: LOUISIANA RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 1C 2 MARCH 2017	SUP:
				AMDT: 1B
				DATED: 04/30/2015

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
GONZALES, LA	LOUISIANA RGNL	2 MARCH 2017	2

TAKEOFF MINIMUMS:
RWY 17, 35: STANDARD

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 17, VEHICLE 25 FT FROM DER, 103 FT LEFT OF CENTERLINE, 7 FT AGL/18 FT MSL.
VEHICLE 42 FT FROM DER, 119 FT LEFT OF CENTERLINE, 9 FT AGL/20 FT MSL.
TREE 115 FT FROM DER, 380 FT LEFT OF CENTERLINE, 45 FT MSL.
TREE 131 FT FROM DER, 379 FT RIGHT OF CENTERLINE, 49 FT MSL.
TREE 360 FT FROM DER, 515 FT RIGHT OF CENTERLINE, 61 FT MSL.
TREE 380 FT FROM DER, 477 FT LEFT OF CENTERLINE, 76 FT MSL.
TREES BEGINNING 836 FT FROM DER, 270 FT RIGHT OF CENTERLINE, UP TO 115 FT MSL.

NOTE: RWY 35, RWY LT 5 FT FROM DER, 22 FT RIGHT OF CENTERLINE, 1 FT AGL/13 FT MSL.
RWY LT 6 FT FROM DER, 27 FT LEFT OF CENTERLINE, 1 FT AGL/14 FT MSL.
TREE 190 FT FROM DER, 379 FT LEFT OF CENTERLINE, 26 FT MSL.
TREE 197 FT FROM DER, 378 FT RIGHT OF CENTERLINE, 38 FT MSL.
TREES BEGINNING 679 FT FROM DER, 463 FT LEFT OF CENTERLINE, UP TO 76 FT MSL.
TREES BEGINNING 691 FT FROM DER, 402 FT RIGHT OF CENTERLINE, UP TO 77 FT MSL.
TREES BEGINNING 779 FT FROM DER, 395 FT RIGHT OF CENTERLINE, UP TO 80 FT MSL.
TREES BEGINNING 863 FT FROM DER, 392 FT RIGHT OF CENTERLINE, UP TO 81 FT MSL.
TREES BEGINNING 869 FT FROM DER, 436 FT LEFT OF CENTERLINE, UP TO 113 FT MSL.
TREE 1008 FT FROM DER, 393 FT RIGHT OF CENTERLINE, 84 FT MSL.
TREES BEGINNING 1031 FT FROM DER, 30 FT RIGHT OF CENTERLINE, UP TO 110 FT MSL.
TREES BEGINNING 1720 FT FROM DER, 31 FT LEFT OF CENTERLINE, UP TO 116 FT MSL.
TREE 2808 FT FROM DER, 71 FT RIGHT OF CENTERLINE, 111 FT MSL.
TREES BEGINNING 2866 FT FROM DER, 4 FT RIGHT OF CENTERLINE, UP TO 114 FT MSL.
TREES BEGINNING 3654 FT FROM DER, 26 FT LEFT OF CENTERLINE, UP TO 120 FT MSL.
TREE 3816 FT FROM DER, 420 FT LEFT OF CENTERLINE, 125 FT MSL.

CONTROLLING OBSTACLES:

REMARKS:
AIRPORT 3 LETTER ID CHANGED FROM L38 TO REG.

FLIGHT INSPECTED BY: *Digitally signed by*
SCOTT WIEBE **JACOB POWERS**
Jan 04, 2017

OFFICE SYMBOL: FICO
DATE: 11/07/2016

DEVELOPED BY: *Digitally signed by*
DEANNA M. FIELDS **DEANNA M FIELDS**
Sep 27, 2016

OFFICE SYMBOL: AJV-5421
DATE: 07/28/2016

APPROVED BY: *Digitally signed by*
TONY LAWSON **JACOB POWERS**
Jan 04, 2017

OFFICE SYMBOL: AJV-5420
DATE:



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated
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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
GONZALES, LA	LOUISIANA RGNL	2 MARCH 2017	2

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:
ZHU, BTR APP CON, ST. AV. DIR. AMGR

CHANGES - REASONS:

1. UPDATED TAKEOFF OBSTACLE NOTES. NEW SURVERY DATA.
2. AIRPORT 3 LETTER ID CHANGED FROM L38 TO REG.



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
LSU VORTAC (IAF)	CLARA/15.00 DME (NOPT)	129.45 / 15.00	3000
CLARA/15.00 DME (IF/IAF)	CUFAW/21.00 DME	129.45 / 6.00 (LSU R-129)	1500

MAP: MAFAL/25.93 DME

CLIMBING RIGHT TURN TO 3000 ON LSU VORTAC R-129 TO CLARA/15.00 DME AND HOLD.

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 422 TOWER 301330N/0910041W
FAC CROSSES MIDPOINT OF RWY 17-35.
CHART BATON ROUGE ASOS.

- PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
- HOLD NW CLARA, RT, 129.45 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
- FAC 129.45 FAF CUFAW/21.00 DME DIST FAF TO MAP _____ THLD _____
- MIN. ALT CLARA 3000, CUFAW 1500
- MSA FROM: LSU VORTAC 2800 (27 NM)

MAG VAR: 6E EPOCH YEAR: 1965

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A X											
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
CIRCLING	800	1	786	800	1 1/4	786	800	2 1/4	786	800	2 1/2	786			

NOTES:
CHART NOTE: DME REQUIRED.
CHART NOTE: USE BATON ROUGE ALTIMETER SETTING.



CITY AND STATE GONZALES, LA	ELEVATION: 14 TDZE:	FACILITY IDENTIFIER: LSU	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, AMDT 2B 2 MARCH 2017	SUP	VOR/DME-A
	AIRPORT NAME: LOUISIANA RGNL			AMDT	2A
				DATE	04/30/2015

**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	
WALAL (IAF)	VISLY (NOPT) (TF) (FB) (RNP 1.00)	088.75 / 5.00	4800	LNAV: RW18
TETAE (IAF)	VISLY (NOPT) (TF) (FB) (RNP 1.00)	268.89 / 5.00	4800	
VISLY (IF/IAF)	SAPTE (TF) (FB) (RNP 1.00)	178.82 / 6.06	3000	CLIMBING RIGHT TURN TO 4800 DIRECT VISLY AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4800.
SAPTE (FAF)	RW18 (MAP) (TF) (FO) (RNP 0.30)	178.82 / 6.17		
RW18 (MAP)	1355 MSL	178.82		ADDITIONAL FLIGHT DATA: FAS OBST: 1479 AAO 423910N/0720155W VISUAL SEGMENT-OBSTACLES.
1355 MSL	VISLY (DF) (FO) (RNP 1.00)		4800	

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. **HOLD N VISLY, RT, 178.82 INBOUND, 4800 FT. IN LIEU OF PT (IAF)**
3. FAC: 178.82 FAF: SAPTE DIST FAF TO MAP: 6.17 THLD: 6.17
4. MIN. ALT: **VISLY 4800, SAPTE 3000**
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:

MAG VAR: **14W** EPOCH YEAR: **1970**

MINIMUMS

TAKEOFF: <u> </u> SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A <input type="checkbox"/> X <input checked="" type="checkbox"/>														
CATEGORY <u>====></u>	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	1800	1	846	1800	1 1/4	846	1840	2 3/4	886	1860	3	906			

NOTES:
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART NOTE: USE WORCESTER ALTIMETER SETTING, WHEN NOT RECEIVED USE ORANGE MUNI ALTIMETER SETTING
 AND INCREASE ALL MDA 40 FEET.

CITY AND STATE GARDNER, MA	ELEVATION: 954 TDZE: AIRPORT NAME: GARDNER MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMD T NO./EFFECTIVE DATE: RNAV (GPS)-B, ORIG-B 2 MARCH 2017	SUP: AMD T: DATED 03/07/2013
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QUALITY
4
ORIG-A

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.

TAA	FROM	TO	ALT
1.	089/30 CW 269/30 (NOPT)	VISLY (IF/IAF) (FB)	4800
2.	269/30 CW 359/30	TETAE (IAF) (FB)	4800
3.	359/30 CW 089/30	WALAL (IAF) (FB)	4800

CITY AND STATE GARDNER, MA	ELEVATION: 954 AIRPORT NAME: GARDNER MUNI	TDZE:	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS)-B, ORIG-B 2 MARCH 2017	SUP: 4
					AMDT: ORIG-A
					DATED: 03/07/2013

QUALITY

CHECKED

**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: 6.29 NM AFTER FACNO INT/ENE 11.48 DME OR AT ENE 5.20 DME FIX
ENE VOR/DME	FACNO INT/ENE 11.48 DME	257.63 / 11.48	2400	CLIMB TO 2500 DIRECT ENE VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2500. ALTERNATE MA (DO NOT CHART): , OR AS DIRECTED BY ATC. CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2400 ON HEADING 290 AND ON I-SFM W COURSE (255) TO FACNO INT AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 262.00 INBOUND. CHART FAS OBST: 545 TREE 432156N/0704529W CHART SANFD LOM IN HALF-TONE. **DME FROM ENE VOR/DME
CON VOR/DME (IAF)	HAVAN INT/ENE 17.58 DME (NOPT)	097.41 / 27.20	3000	
MHT VOR/DME (IAF)	HAVAN INT/ENE 17.58 DME (NOPT)	051.08 / 30.45	3000	
PSM VOR/DME (IAF)	HAVAN INT/ENE 17.58 DME (NOPT)	350.15 / 12.91	3000	
HAVAN INT/ENE 17.58 DME (IF)	FACNO INT/ENE 11.48 DME	075.35 / 6.10 (I-SFM)	2300	

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD W FACNO, RT, 075.35 INBOUND, 2300 FT. IN LIEU OF PT (IAF)
3. FAC: 075.35 FAF: FACNO INT/ENE 11.48 DME DIST FAF TO MAP: 6.29 THLD: 6.29
4. MIN. ALT: FACNO 2300, XAWFE/ENE 7.50 DME 960*
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1119
6. MIN GS INCPT: 2300 GS ALT AT: FACNO 2300 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 57.1
8. MSA FROM: ENE VOR/DME 055-235 1900, 235-325 3100, 325-055 3600

MAG VAR: 17W EPOCH YEAR: 1990

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	441	3/4	200	441	3/4	200	441	3/4	200	441	3/4	200			
S-LOC 07	960	1	719	960	1	719	960	2	719	960	2	719			
CIRCLING	960	1	716	960	1	716	960	2	716	960	2 1/4	716			
XAWFE FIX MINIMUMS**															
S-LOC 07	800	1	559	800	1	559	800	1 5/8	559	800	1 5/8	559			
CIRCLING	800	1	556	800	1	556	800	1 5/8	556	860	2	616			

NOTES:
 CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 *LOC ONLY, 1000 WHEN USING ROCHESTER, NH ALTIMETER SETTING.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ROCHESTER, NH ALTIMETER SETTING:
 INCREASE ALL DA TO 479; INCREASE ALL MDA 40 FEET AND S-LOC 7 CAT B AND CIRCLING CATS B/C/D
 (CONTINUED ON PAGE 2)

CITY AND STATE SANFORD, ME	ELEVATION: 244 TDZE: 241 AIRPORT NAME: SANFORD SEACOAST RGNL	FACILITY IDENTIFIER: I-SFM	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 7, AMDT 4D 2 MARCH 2017	SUP: 4 AMDT: 4C DATED 05/29/2014
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QUALITY
CHECKED

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.

NOTES, (CONT.):
 VISIBILITY 1/4 MILE AND XAWFE FIX MINIMUMS S-LOC 7 CATS C/D AND CIRCLING CAT C VISIBILITY 1/8 MILE.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PSM VORTAC ON V3 SOUTHBOUND.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CITY AND STATE SANFORD, ME	ELEVATION: 244	TDZE: 241	FACILITY IDENTIFIER: I-SFM	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 7, AMDT 4D 2 MARCH 2017	SUP: 4
	AIRPORT NAME: SANFORD SEACOAST RGNL				AMDT: CHECKED
					DATED: 05/29/2014

QUALITY

CHECKED

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

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ENE VOR/DME	HAVAN (TF) (FO) (RNP 2.00)	256.87 / 17.58	3000
CON VOR/DME (IAF)	HAVAN (NOPT) (TF) (FB) (RNP 1.00)	099.41 / 27.20	3000
MHT VOR/DME (IAF)	HAVAN (NOPT) (TF) (FB) (RNP 1.00)	053.08 / 30.45	3000
HAVAN (IF/IAF)	FACNO (TF) (FB) (RNP 1.00)	075.18 / 6.10	2300
FACNO (FAF)	XAWFE/2.30 NM TO RW07 (TF) (FB) (RNP 0.30)	075.27 / 3.99	
(SEE FORM 8260-10)			

LPV: DA
LNAV/VNAV: DA
LNAV: RW07

CLIMB TO 3000 DIRECT YEYUV AND ON TRACK 085.11 TO ENE VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ADDITIONAL FLIGHT DATA:
HOLD NE, LT, 242.00 INBOUND.
CHART FAS OBST: 579 TREES 432125N/0704542W
DISTANCE TO THLD FROM 200 HAT: 0.45 NM.
CHART VDP AT 1.72 NM TO RW07*
*LNAV ONLY.
WAAS CHANNEL # 86921
REFERENCE PATH ID: W07A
LTP HAE: 46.7 M

MAG VAR: 17W EPOCH YEAR: 1990

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD W HAVAN, RT, 075.18 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
- FAC: 075.27 FAF: FACNO DIST FAF TO MAP: 6.29 THLD: 6.29
- MIN. ALT: HAVAN 3000, FACNO 2300, XAWFE/2.30 NM TO RW07 1020*
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 2300 GS ALT AT: FACNO 2300 OM: MM: IM:
- GS ANGLE: 3.00 TCH: 57.1 34:1 IS NOT CLEAR
- MSA FROM: RW07 3600

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	441	3/4	200	441	3/4	200	441	3/4	200	441	3/4	200			
LNAV/VNAV DA	650	1 3/8	409	650	1 3/8	409	650	1 3/8	409	650	1 3/8	409			
LNAV MDA	840	1	599	840	1	599	840	1 3/4	599	840	1 3/4	599			
CIRCLING	840	1	596	840	1	596	840	1 3/4	596	860	2	616			

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: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 (CONTINUED ON PAGE 2)

CITY AND STATE SANFORD, ME	ELEVATION: 244 TDZE: 241 AIRPORT NAME: SANFORD SEACOAST RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMD T NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, ORIG-C 2 MARCH 2017	SUP: 4 AMD T: ORIG-B DATED: 05/29/2014
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QUALITY
4
CHECKED

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.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
XAWFE/2.30 NM TO RW07	RW07 (MAP) (TF) (FO) (RNP 0.30)	075.27 / 2.30	
RW07 (MAP)	441 MSL	075.27	
441 MSL	YEYUV (DF) (FB) (RNP 1.00)		
YEYUV	ENE VOR/DME (TF) (FO) (RNP 1.00)	085.11 / 2.62	3000

NOTES, (CONT.):

*LNAV ONLY
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING ROCHESTER, NH ALTIMETER SETTING.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ROCHESTER, NH ALTIMETER SETTING:
 INCREASE LPV DA TO 479; INCREASE LNAV/VNAV DA TO 699 AND VISIBILITY ALL CATS 1/8 MILE; INCREASE ALL MDA 40 FEET.

CITY AND STATE SANFORD, ME	ELEVATION: 244 AIRPORT NAME: SANFORD SEACOAST RGNL	TDZE: 241	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, ORIG-C 2 MARCH 2017	SUP: 4
					AMDT: CHECKED ORIG-B
					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	KSFM
RUNWAY	RW07
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W07A
LTP/FTP LATITUDE	432312.0110N
LTP/FTP LONGITUDE	0704311.0760W
LTP/FTP ELLIPSOIDAL HEIGHT	+00467
FPAP LATITUDE	432358.7500N
FPAP LONGITUDE	0704127.0300W
THRESHOLD CROSSING HEIGHT (TCH)	00057.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0800
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER F4985512

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00733
FPAP ORTHOMETRIC HEIGHT	+00733

CITY AND STATE SANFORD, ME	ELEVATION: 244	TDZE: 241	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, ORIG-C 2 MARCH 2017	SUP: ^{QUALITY} 4	
	AIRPORT NAME: SANFORD SEACOAST RGNL				AMDT: CHECKED	ORIG-B
					DATED: 05/29/2014	

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

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE	
CON VOR/DME	GUNTY (TF) (FO) (RNP 2.00)	087.81 / 50.26	3000	LPV: DA LNAV/VNAV: DA LNAV: RW25
MHT VOR/DME	GUNTY (TF) (FO) (RNP 2.00)	062.74 / 53.71	2400	
SAPPE (IAF)	GUNTY (NOPT) (TF) (FB) (RNP 1.00)	263.81 / 20.75	2400	CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 2400 DIRECT GUNTY AND HOLD.
GUNTY (IF/IAF)	ZIRMU (TF) (FB) (RNP 1.00)	255.51 / 6.10	1800	
ZIRMU (FAF)	RW25 (MAP) (TF) (FO) (RNP 0.30)	255.43 / 4.76		ADDITIONAL FLIGHT DATA: FAS OBST: 419 AAO 432541N/0703815W DISTANCE TO THLD FROM 261 HAT: 0.66 NM. CHART VDP AT 1.26 NM TO RW25* *LNAV ONLY. WAAS CHANNEL # 53521 REFERENCE PATH ID: W25A LTP HAE: 44.4 M
(SEE FORM 8260-10)				

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD E GUNTY, RT, 255.51 INBOUND, 2400 FT. IN LIEU OF PT (IAF)
3. FAC: 255.43 FAF: ZIRMU DIST FAF TO MAP: 4.76 THLD: 4.76
4. MIN. ALT: GUNTY 2400, ZIRMU 1800
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1800 GS ALT AT: ZIRMU 1800 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 52.0 34:1 IS NOT CLEAR
8. MSA FROM: RW25 3600

MAG VAR: 17W EPOCH YEAR: 1990

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	496	1	261	496	1	261	496	1	261	496	1	261			
LNAV/VNAV DA	675	1 3/8	440	675	1 3/8	440	675	1 3/8	440	675	1 3/8	440			
LNAV MDA	680	1	445	680	1	445	680	1 1/8	445	680	1 1/8	445			
CIRCLING	760	1	516	760	1	516	760	1 1/2	516	860	2	616			

NOTES:
 CHART NOTE: BARO-VNAV NA WHEN USING ROCHESTER, NH ALTIMETER SETTING. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: DME/DME RNP-0.3 NA.
 (CONTINUED ON PAGE 2)

CITY AND STATE SANFORD, ME	ELEVATION: 244 TDZE: 235 AIRPORT NAME: SANFORD SEACOAST RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 25, ORIG-B 2 MARCH 2017	SUP: AMDT: ORIG-A DATED 03/07/2013
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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.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
RW25 (MAP)	1000 MSL	255.43	1000
1000 MSL	GUNTY (DF) (FO) (RNP 1.00)		2400

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MHT VOR/DME ON V106 SOUTHWEST BOUND AND AT SAPPE ON V268 NORTHEAST BOUND.

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

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV OR LNAV CATS A/B.

CHART NOTE: FOR INOPERATIVE ODALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/2 AND LNAV CATS C/D VISIBILITY TO 1 3/8.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ROCHESTER, NH ALTIMETER SETTING: INCREASE LPV DA TO 534; INCREASE LNAV/VNAV DA TO 713 AND VISIBILITY ALL CATS 1/8 MILE; INCREASE ALL MDA 40 FEET AND LNAV CATS C/D VISIBILITY 1/8 MILE; FOR INOPERATIVE ODALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 5/8 AND LNAV CATS C/D VISIBILITY TO 1 3/8.

CITY AND STATE
SANFORD, ME

ELEVATION: 244 TDZE: 235
 AIRPORT NAME:
SANFORD SEACOAST RGNL

FACILITY IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 25, ORIG-B
 2 MARCH 2017

SUP: **4**
 AMDT: **ORIG-A**
 DATED: **03/07/2013**

QUALITY

CHECKED

**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	KSFM
RUNWAY	RW25
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W25A
LTP/FTP LATITUDE	432343.0920N
LTP/FTP LONGITUDE	0704201.8975W
LTP/FTP ELLIPSOIDAL HEIGHT	+00444
FPAP LATITUDE	432256.3400N
FPAP LONGITUDE	0704345.9300W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 2696DE8A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00710
FPAP ORTHOMETRIC HEIGHT	+00710

QUALITY
4
CHECKED

CITY AND STATE SANFORD, ME	ELEVATION: 244	TDZE: 235	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 25, ORIG-B 2 MARCH 2017	SUP: 4
	AIRPORT NAME: SANFORD SEACOAST RGNL				AMDT: ORIG-A
					DATED: 03/07/2013

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: 5.62 NM AFTER AUSTN LOM/AZO VOR/DME 6.44 DME OR AT AZO VOR/DME 0.83 DME
AZO VOR/DME	AUSTN LOM/AZO VOR/DME 6.44 DME	171.66 / 6.44	2800	CLIMB TO 2600 ON AZO VOR/DME R-353.16 TO UPJON/AZO VOR/DME 5.63 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 3000 ON HEADING 354.10 AND PMM VOR/DME R-111.62 TO BRONZ INT/PMM VOR/DME 21.35 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 173.16 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W BRONZ INT/PMM VOR/DME 21.35 DME, RT, 111.62 INBOUND. CHART FAS OBST: 996 T-L TWR 421207N/0853243W CHART: ASR. CHART IN PLANVIEW: BRONZ INT/PMM VOR/DME 21.35 DME. CHART CIRCLING ICON. CHART IN PLANVIEW: (CFCFI) (420137N/0853024W). CHART PLANVIEW NOTE: ADF OR DME REQUIRED.
1. PT <u>L</u> SIDE OF COURSE <u>174.10</u> OUTBOUND <u>2800</u> FT WITHIN <u>10</u> MILES OF <u>AUSTN LOM</u> (IAF) 2. _____ 3. FAC: <u>354.10</u> FAF: <u>AUSTN LOM/AZO VOR/DME 6.44 DME</u> DIST FAF TO MAP: <u>5.62</u> THLD: <u>5.62</u> 4. MIN. ALT: <u>AUSTN LOM/AZO VOR/DME 6.44 DME 2800, ZEXOS/AZO VOR/DME 2.12 DME 1340* *LOC ONLY</u> 5. DIST TO THLD FROM OM: <u>5.62</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1042</u> 6. MIN GS INCPT: <u>2800</u> GS ALT AT: <u>-</u> OM: <u>2728</u> MM: <u>-</u> IM: <u>-</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>53.3</u> 8. MSA FROM: <u>AZ LOM 3000</u>				MAG VAR: <u>3W</u> EPOCH YEAR: <u>1985</u>

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 35**	1068	2400	200	1068	2400	200	1068	2400	200	1068	2400	200			
S-LOC 35	1260	2400	392	1260	2400	392	1260	3500	392	1260	3500	392			
CIRCLING	1380	1	506	1380	1	506	1480	1 3/4	606	1480	2	606			

NOTES:
 CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. # @ NA WHEN CONTROL TOWER CLOSED.
 CHART NOTE: NIGHT LANDING: RWY 5, 9, 23, 27 NA. # CAT C, D 700-2
 CHART NOTE: DME REQUIRED.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON AZO VOR/DME AIRWAY RADIALS 192 CW 232.
 CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 35 CATS C AND D VISIBILITY TO 1 3/8 MILE.



CITY AND STATE KALAMAZOO, MI	ELEVATION: 874 TDZE: 868 AIRPORT NAME: KALAMAZOO/BATTLE CREEK INTL	FACILITY IDENTIFIER: I-AZO	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 35, AMDT 23 2 MARCH 2017	SUP: AMDT: 22C DATED 04/03/2014
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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 KALAMAZOO, MI	ELEVATION: 874 AIRPORT NAME: KALAMAZOO/BATTLE CREEK INTL	TDZE: 868	FACILITY IDENTIFIER: I-AZO	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 35, AMDT 23 2 MARCH 2017	SUP:
					AMDT: 22C
					DATED: 04/03/2014

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
AZO VOR/DME	NEATT/5.78 DME	167.00 / 5.78	2500
JONES INT/18.64 DME (IF)	NEATT/5.78 DME (NOPT)	347.00 / 12.86 (AZO R-167)	2500

MAP: YUCUR/AZO 0.83 DME
CLIMB TO 2600 ON AZO VOR/DME R-353 TO UPJON/5.63 DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 173.16 INBOUND.
CHART FAS OBST: 1019 BLDG 421236N/0853309W
CHART: ASR.
NEATT TO RW35: 3.00/53.0.
CHART CIRCLING ICON.
FAC CROSSES RWY C/L EXTENDED 2061 FT FROM THLD.

- PT L SIDE OF COURSE 167.00 OUTBOUND 2500 FT WITHIN 10 MILES OF NEATT (IAF)
-
- FAC 347.00 FAF NEATT/5.78 DME DIST FAF TO MAP _____ THLD 5.78
- MIN. ALT NEATT/5.78 DME 2500, TUJJE/2.23 DME 1340
- MSA FROM: AZO VOR/DME 3000

MAG VAR: **1W** EPOCH YEAR: **1965**

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			STANDARD					
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-35	1280	2400	412	1280	2400	412	1280	4000	412	1280	4000	412			
CIRCLING	1380	1	506	1380	1	506	1480	1 3/4	606	1480	2	606			

NOTES:
CHART NOTE: CIRCLING TO RWY 5,9,23,27 NA AT NIGHT.
CHART NOTE: DME REQUIRED.
FOR INOPERATIVE MALSR, INCREASE S-35 CAT C AND D VISIBILITY TO RVR 6000.
CHART PLANVIEWNOTE: PROCEDURE NA FOR ARRIVALS ON AZO VOR/DME AIRWAYS RADIALS107 CW 227.



CITY AND STATE KALAMAZOO, MI	ELEVATION: 874 TDZE: 868 AIRPORT NAME: KALAMAZOO/BATTLE CREEK INTL	FACILITY IDENTIFIER: AZO	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 35, AMDT 18 2 MARCH 2017	SUP
				AMDT 17B
				DATE 04/03/2014

**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	
GAPAR	NOSRE (TF) (FB) (RNP 2.00)	000.13 / 46.03	11000	LPV: DA LNAV/VNAV: DA LNAV: RW14
CTB VOR/DME	JOVEN (TF) (FO) (RNP 2.00)	312.73 / 13.90	6300	
NOSRE (IAF)	JOVEN (NOPT) (TF) (FB) (RNP 1.00)	033.95 / 10.00	6300	CLIMB TO 4400 THEN CLIMBING RIGHT TURN TO 9000 DIRECT PENRY AND HOLD.
SUYOV (IAF)	JOVEN (NOPT) (TF) (FB) (RNP 1.00)	214.23 / 10.00	6300	
HOLOX (IAF)	JOVEN (NOPT) (TF) (FB) (RNP 1.00)	189.35 / 9.86	6300	
(SEE FORM 8260-10)				ADDITIONAL FLIGHT DATA: HOLD N, RT, 159.19 INBOUND. CHART FAS OBST: 3972 TREE 483742N/1122409W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.04 NM TO RW14* *LNAV ONLY. WAAS CHANNEL # 93537 REFERENCE PATH ID: W14A CHART CIRCLING ICON. LTP HAE: 1161 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD NW JOVEN, RT, 124.09 INBOUND, 6300 FT. IN LIEU OF PT (IAF)
3. FAC: 139.13 FAF: CIGUD DIST FAF TO MAP: 4.68 THLD: 4.68
4. MIN. ALT: JOVEN 6300, CIGUD 5400, NUMSE/1.70 NM TO RW14 4440*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 5400 GS ALT AT: CIGUD 5400 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 52.0 34:1 IS CLEAR
8. MSA FROM: RW14 6500

MAG VAR: 13E 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	4058	3/4	200	4058	3/4	200	4058	3/4	200	4058	3/4	200			
LNAV/VNAV DA	4108	3/4	250	4108	3/4	250	4108	3/4	250	4108	3/4	250			
LNAV MDA	4240	1	382	4240	1	382	4240	1 1/8	382	4240	1 1/8	382			
CIRCLING	4280	1	422	4320	1	462	4320	1 1/2	462	4620	2 1/2	762			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25C (-13F) OR ABOVE 51C (124F).

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
@ CAT D 800-2 1/2

CHART NOTE: DME/DME RNP-0.3 NA.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GAPAR ON V536 EASTBOUND.

*LNAV ONLY

CITY AND STATE CUT BANK, MT	ELEVATION: 3858 TDZE: 3858 AIRPORT NAME: CUT BANK INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, ORIG-A 2 MARCH 2017	SUP: AMDT: ORIG DATED 01/08/2015
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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.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
JOVEN (IF/IAF)	CIGUD (TF) (FB) (RNP 1.00)	124.09 / 6.04	5400
CIGUD (FAF)	NUMSE/1.70 NM TO RW14 (TF) (FB) (RNP 0.30)	139.13 / 2.98	
NUMSE/1.70 NM TO RW14	RW14 (MAP) (TF) (FO) (RNP 0.30)	139.13 / 1.70	
RW14 (MAP)	4400 MSL	139.13	4400
4400 MSL	PENRY (DF) (FO) (RNP 1.00)		9000

QUALITY
19
CHECKED

CITY AND STATE CUT BANK, MT	ELEVATION: 3858 AIRPORT NAME: CUT BANK INTL	TDZE: 3858	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, ORIG-A 2 MARCH 2017	SUP:
					AMDT: ORIG
					DATED: 01/08/2015

**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	KCTB
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	483648.4200N
LTP/FTP LONGITUDE	1122255.2890W
LTP/FTP ELLIPSOIDAL HEIGHT	+11610
FPAP LATITUDE	483529.6755N
FPAP LONGITUDE	1122152.6435W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1136
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER 949FCB9A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11759
FPAP ORTHOMETRIC HEIGHT	+11759



CITY AND STATE CUT BANK, MT	ELEVATION: 3858	TDZE: 3858	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, ORIG-A 2 MARCH 2017	SUP: ORIG
	AIRPORT NAME: CUT BANK INTL				AMDT:
					DATED: 01/08/2015

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW23
CTB VOR/DME	ZULTU (TF) (FO) (RNP 2.00)	037.51 / 12.81	6700	CLIMB TO 4400 THEN CLIMBING LEFT TURN TO 9000 DIRECT PENRY AND HOLD.
WEBVO (IAF)	ZULTU (NOPT) (TF) (FB) (RNP 1.00)	275.19 / 26.77	6700	
ZULTU (IF/IAF)	WUTBO (TF) (FB) (RNP 1.00)	231.13 / 6.00	5800	ADDITIONAL FLIGHT DATA: HOLD NW, RT, 155.19 INBOUND. CHART FAS OBST: 3951 POLE 483704N/1121921W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.06 NM TO RW23* *LNAV ONLY. WAAS CHANNEL # 53337 REFERENCE PATH ID: W23A CHART CIRCLING ICON LTP HAE: 1155.6 M
WUTBO (FAF)	ZABOV/1.60 NM TO RW23 (TF) (FB) (RNP 0.30)	231.03 / 4.39		
ZABOV/1.60 NM TO RW23 (SEE FORM 8260-10)	RW23 (MAP) (TF) (FO) (RNP 0.30)	231.03 / 1.60		

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD NE ZULTU, RT, 231.13 INBOUND, 6700 FT. IN LIEU OF PT (IAF)
3. FAC: 231.03 FAF: WUTBO DIST FAF TO MAP: 5.99 THLD: 5.99
4. MIN. ALT: ZULTU 6700, WUTBO 5800, ZABOV/1.60 NM TO RW23 4400*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 5800 GS ALT AT: WUTBO 5800 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 52.0 34:1 IS CLEAR
8. MSA FROM: RW23 6400

MAG VAR: 13E 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	4040	3/4	200	4040	3/4	200	4040	3/4	200	4040	3/4	200			
LNAV/VNAV DA	4090	3/4	250	4090	3/4	250	4090	3/4	250	4090	3/4	250			
LNAV MDA	4220	1	380	4220	1	380	4220	1	380	4220	1	380			
CIRCLING	4280	1	422	4320	1	462	4320	1 1/2	462	4620	2 1/2	762			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25C (-13F) OR ABOVE 51C (124F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CTB VOR/DME ON V21 SOUTHEAST BOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
@ CAT D 800-2 1/2



CITY AND STATE CUT BANK, MT	ELEVATION: 3858 TDZE: 3840 AIRPORT NAME: CUT BANK INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, ORIG-A 2 MARCH 2017	SUP: AMDT: ORIG DATED 11/13/2014
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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.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
RW23 (MAP)	4400 MSL	231.03	4400
4400 MSL	PENRY (DF) (FO) (RNP 1.00)		9000



CITY AND STATE CUT BANK, MT	ELEVATION: 3858 TDZE: 3840 AIRPORT NAME: CUT BANK INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, ORIG-A 2 MARCH 2017	SUP:
				AMDT: ORIG
				DATED: 11/13/2014

**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	KCTB
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	483646.3490N
LTP/FTP LONGITUDE	1122155.9855W
LTP/FTP ELLIPSOIDAL HEIGHT	+11556
FPAP LATITUDE	483607.2050N
FPAP LONGITUDE	1122356.5705W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1136
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER 6B6768BB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11705
FPAP ORTHOMETRIC HEIGHT	+11705



CITY AND STATE CUT BANK, MT	ELEVATION: 3858 TDZE: 3840	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, ORIG-A 2 MARCH 2017	SUP:
	AIRPORT NAME: CUT BANK INTL			AMDT: ORIG
				DATED: 11/13/2014

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE	
CTB VOR/DME	EPILE (TF) (FO) (RNP 2.00)	139.25 / 8.31	6300	LPV: DA LNAV/VNAV: DA LNAV: RW32 CLIMB TO 4400 THEN CLIMBING RIGHT TURN TO 11000 DIRECT WEBVO AND HOLD.
AGRYN (IAF)	EPILE (NOPT) (TF) (FB) (RNP 1.00)	231.87 / 17.19	6300	
PENRY (IAF)	EPILE (NOPT) (TF) (FB) (RNP 1.00)	346.78 / 21.65	6300	
BRADZ (IAF)	EPILE (NOPT) (TF) (FB) (RNP 1.00)	316.86 / 19.69	6300	
EPILE (IF/IAF) (SEE FORM 8260-10)	MALCO (TF) (FB) (RNP 1.00)	319.27 / 6.00	5400	ADDITIONAL FLIGHT DATA: HOLD W, RT, 078.97 INBOUND. CHART FAS OBST: 3904 BLDG 483626N/1122152W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 0.83 NM TO RW32* *LNAV ONLY. WAAS CHANNEL # 99337 REFERENCE PATH ID: W32A CHART CIRCLING ICON. LTP HAE: 1156 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SE EPILE, RT, 319.27 INBOUND, 6300 FT. IN LIEU OF PT (IAF)
3. FAC: 319.22 FAF: MALCO DIST FAF TO MAP: 4.73 THLD: 4.73
4. MIN. ALT: EPILE 6300, MALCO 5400, WEDAP/1.40 NM TO RW32 4320*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 5400 GS ALT AT: MALCO 5400 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 53.0 34:1 IS CLEAR
8. MSA FROM: RW32 6500

MAG VAR: 13E 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	4051	3/4	200	4051	3/4	200	4051	3/4	200	4051	3/4	200			
LNAV/VNAV DA	4101	3/4	250	4101	3/4	250	4101	3/4	250	4101	3/4	250			
LNAV MDA	4160	1	309	4160	1	309	4160	7/8	309	4160	7/8	309			
CIRCLING	4280	1	422	4320	1	462	4320	1 1/2	462	4620	2 1/2	762			

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25C (-13F) OR ABOVE 51C (124F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: DME/DME RNP-0.3 NA. @ CAT D 800-2 1/2
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.



CITY AND STATE CUT BANK, MT	ELEVATION: 3858 TDZE: 3851 AIRPORT NAME: CUT BANK INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-A 2 MARCH 2017	SUP: AMDT: ORIG DATED 01/08/2015
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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.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
MALCO (FAF)	WEDAP/1.40 NM TO RW32 (TF) (FB) (RNP 0.30)	319.22 / 3.33	
WEDAP/1.40 NM TO RW32	RW32 (MAP) (TF) (FO) (RNP 0.30)	319.22 / 1.40	
RW32 (MAP)	4400 MSL	319.22	4400
4400 MSL	WEBVO (DF) (FO) (RNP 1.00)		11000

CITY AND STATE
CUT BANK, MT

ELEVATION: 3858 **TDZE: 3851**
 AIRPORT NAME:
CUT BANK INTL

FACILITY IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 32, ORIG-A
 2 MARCH 2017

SUP:
 AMDT: **ORIG**
 DATED: **01/08/2015**



**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	KCTB
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	483602.1765N
LTP/FTP LONGITUDE	1122218.4900W
LTP/FTP ELLIPSOIDAL HEIGHT	+11560
FPAP LATITUDE	483720.9130N
FPAP LONGITUDE	1122321.1670W
THRESHOLD CROSSING HEIGHT (TCH)	00053.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1136
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 15C6E1E7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11709
FPAP ORTHOMETRIC HEIGHT	+11709



CITY AND STATE CUT BANK, MT	ELEVATION: 3858 TDZE: 3851	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-A 2 MARCH 2017	SUP: ORIG
	AIRPORT NAME: CUT BANK INTL			AMDT: ORIG
				DATED: 01/08/2015

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
HEKIT/CTB 10.00 DME CW (IAF)	HOMGO/CTB 10.00 DME (NOPT)	10.00 DME ARC	5400
WELUR/CTB 10.00 DME CCW (IAF)	HOMGO/CTB 10.00 DME (NOPT)	10.00 DME ARC	5400
HOMGO/CTB 10.00 DME (IF)	CTB VOR/DME	315.03 / 10.00	4700

MAP: 2.42 NM AFTER CTB VOR/DME OR AT CTB 2.42 DME

CLIMB TO 5400 THEN RIGHT TURN DIRECT CTB VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 315.03 INBOUND.
CHART FAS OBST: 3933 TREE 483405N/112222W
CHART VDP AT 1.43 DME
DISTANCE VDP TO THLD 0.99 NM.
CHART CTB R-073 AT HEKIT.
CHART CTB R-155 AT WELUR.
CHART CIRCLING ICON.
CTB VOR/DME TO RW32: 3.18/43

- PT L SIDE OF COURSE 135.03 OUTBOUND 5400 FT WITHIN 10 MILES OF CTB VOR/DME (IAF)
-
- FAC 315.03 FAF CTB VOR/DME DIST FAF TO MAP 2.42 THLD 2.42
- MIN. ALT CTB VOR/DME 4700
- MSA FROM: CTB VOR/DME 360-180 6100, 180-270 6600, 270-360 6000

MAG VAR: 17E EPOCH YEAR: 1995

MINIMUMS

TAKEOFF:	SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A	STANDARD @								
CATEGORY =====>	A			B			C			D			E			
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-32	4200	1	349	4200	1	349	4200	1	349	4200	1	349				
CIRCLING	4280	1	422	4320	1	462	4320	1 1/2	462	4620	2 1/2	762				

NOTES:

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT D 800-2 1/2

CITY AND STATE CUT BANK, MT	ELEVATION: 3858 TDZE: 3851	FACILITY IDENTIFIER: CTB	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 32, AMDT 16A 2 MARCH 2017	SUP	QUALITY 19 CHECKED	
	AIRPORT NAME: CUT BANK INTL			AMDT		16
				DATE		11/13/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE

MAP: 3.09 NM AFTER CON VOR/DME

CLIMBING RIGHT TURN TO 4000 DIRECT CON VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MA (DO NOT CHART): ; OR WHEN DIRECTED BY ATC, CLIMBING RIGHT TURN TO 3000 DIRECT MHT VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 118.54 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE MHT VOR/DME, LT, 337.00 INBOUND.
CHART FAS OBST: 845 TWR 431253N/0713426W
CHART IN PLANVIEW: MHT VOR/DME.
CHART AIRPORT ELEVATION 342
FAC CROSSES RWY 12 THLD

- PT L SIDE OF COURSE 298.54 OUTBOUND 3500 FT WITHIN 10 MILES OF CON VOR/DME (IAF)
-
- FAC 118.54 FAF CON VOR/DME DIST FAF TO MAP 3.09 THLD
- MIN. ALT CON VOR/DME 2100
- MSA FROM: CON VOR/DME 043-241 3600, 241-043 4200

MAG VAR: **15W** EPOCH YEAR: **1980**

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A	@			
CATEGORY =====>	A	B	C	D	E
	MDA VIS HAT/HAA	MDA VIS HAT/HAA	MDA VIS HAT/HAA	MDA VIS HAT/HAA	MDA VIS HAT/HAA
CIRCLING	1160 1 818	1160 1 1/4 818	1160 2 1/2 818	1220 2 3/4 878	

NOTES:

CHART NOTE: CIRCLING TO RWY 12, 17, 30 NA AT NIGHT. @ CAT A, B 900-2, CAT C 900-2 1/2, CAT D 900-2 3/4

CHART NOTE: RWY 12, 17, 30 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CITY AND STATE CONCORD, NH	ELEVATION: 342 AIRPORT NAME: CONCORD MUNI	TDZE:	FACILITY IDENTIFIER: CON	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, ORIG-C 2 MARCH 2017	SUP AMDT DATE	4 ORIG-B 01/13/2011
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**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: 5.32 NM AFTER BURGR OM/INT/I-DVR 7.13 DME OR AT GULEC/I-DVR 1.82 DME FIX
LEB VOR/DME	BURGR OM/INT/I-DVR 7.13 DME	318.17 / 5.96	3900	CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 4500 DIRECT LEB VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4500. ALTERNATE MA (DO NOT CHART): CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 5000 DIRECT MPV VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 246.39 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N MPV VOR/DME, RT, 160.00 INBOUND. CHART FAS OBST: 821 TREE 433944N/0721931W CHART 1225 TREE 434053N/0722004W CHART VDP AT 2.36 DME* DISTANCE VDP TO THLD 1.54 NM. *LOC ONLY. CHART IN PLANVIEW: MPV VOR/DME. CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 2920 FT FROM THLD. CHART PLANVIEW NOTE: LOC OFFSET 3 DEGREES. FICTIOUS THRESHOLD POINT (CFBFQ) DO NOT CHART.
MPV VOR/DME (IAF)	HAMMM/I-DVR 12.14 DME (NOPT)	180.90 / 16.77	4000	
HAMMM/I-DVR 12.14 DME (IF)	BURGR OM/INT/I-DVR 7.13 DME	186.97 / 5.01 (I-DVR)	2900	

1. PT R SIDE OF COURSE 006.97 OUTBOUND 3900 FT WITHIN 10 MILES OF BURGR (IAF)
2. _____
3. FAC: 186.97 FAF: BURGR OM/INT/I-DVR 7.13 DME, PFAF HAANK/I-DVR 9.59 DME DIST FAF TO MAP: 5.32 THLD: 6.31
4. MIN. ALT: BURGR OM 2900*, FRYYS INT/I-DVR 3.82 DME 1720*
5. DIST TO THLD FROM OM: 6.31 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 854
6. MIN GS INCPT: 3500 GS ALT AT: HAANK 3500 OM: - MM: - IM: -
7. GS ANGLE: 3.10 TCH: 42.4
8. MSA FROM: LEB VOR/DME 360-090 6000, 090-180 4300, 180-360 5400

MAG VAR: 16W EPOCH YEAR: 1995

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A	ILS: #	LOC: @												
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	955	1 1/4	382	955	1 1/4	382	955	1 1/4	382	955	1 1/4	382			
S-LOC 18	1720	1 1/4	1147	1720	1 1/2	1147	1720	3	1147	1720	3	1147			
CIRCLING	1720	1 1/4	1117	1740	1 1/2	1137	1880	3	1277	2020	3	1417			
FRYYS FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)															
S-LOC 18	1180	1 1/4	607	1180	1 1/4	607	1180	1 3/4	607	1180	1 3/4	607			
CIRCLING	1640	1 1/4	1037	1740	1 1/2	1137	1880	3	1277	2020	3	1417			

NOTES:
*LOC ONLY
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MPV VOR/DME AIRWAY RADIALS 173 CW 237.
#@ CAT A 1200-2, CAT B 1200-2, CAT C 1300-3, CAT D 1500-3

CITY AND STATE LEBANON, NH	ELEVATION: 603 TDZE: 573 AIRPORT NAME: LEBANON MUNI	FACILITY IDENTIFIER: I-DVR	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 18, AMDT 6A 2 MARCH 2017	SUP: 4 AMDT: 6 DATED 10/15/2015
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U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE	MAP: WOBRI/LEB 5.25 DME
MPV VOR/DME	RIZZO/LEB 12.96 DME	196.25 / 32.25	4500	CLIMB TO 4500 DIRECT LEB VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4500.
LEB VOR/DME	RIZZO/LEB 12.96 DME	247.77 / 12.96	4500	
				ADDITIONAL FLIGHT DATA: HOLD NE, RT, 246.39 INBOUND. FAS OBST: 1278 TREE 433533N/0722330W CHART 1632 TREES 433412N/0722821W. CHART VDP AT 7.44 DME DISTANCE VDP TO THLD 2.18 NM. CHART CIRCLING ICON. RIZZO TO RW07: 3.40/50. FAC 5 FT L OF RWY C/L EXTENDED 3000 FT FROM THLD. CHART PLANVIEW NOTE: DME REQUIRED.

- PT L SIDE OF COURSE 247.77 OUTBOUND 4500 FT WITHIN 10 MILES OF RIZZO (IAF)
-
- FAC 067.77 FAF RIZZO/LEB 12.96 DME DIST FAF TO MAP _____ THLD 7.71
- MIN. ALT RIZZO/LEB 12.96 DME 3400, WONUL/LEB 9.00 DME 1880
- MSA FROM: LEB VOR/DME 090-180 4400, 180-360 5500, 360-090 6100

MAG VAR: 15W EPOCH YEAR: 1980

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		@						
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-07	1540	1 1/4	976	1540	1 1/2	976	1540	3	976	1540	3	976			
CIRCLING	1640	1 1/4	1037	1740	1 1/2	1137	1880	3	1277	2020	3	1417			

NOTES:

CHART NOTE: DME REQUIRED. @ CAT A 1100-2, CAT B 1200-2, CAT C 1300-3, CAT D 1500-3

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

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



CITY AND STATE LEBANON, NH	ELEVATION: 603 TDZE: 564 AIRPORT NAME: LEBANON MUNI	FACILITY IDENTIFIER: LEB	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 7, AMDT 1E 2 MARCH 2017	SUP VOR/DME RWY 7 AMDT 1D DATE 09/17/2015
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**ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE	
CON VOR/DME (IAF)	ITAWA INT/PSM VOR/DME 11.98 DME (NOPT)	100.02 / 26.65	3000	ILS: DA LOC: 5.71 NM AFTER PUDYE INT/PSM 5.98 DME/RADAR OR AT PSM VOR/DME 0.30 DME
ENE VOR/DME (IAF)	ITAWA INT/PSM VOR/DME 11.98 DME (NOPT)	254.12 / 18.61	3000	CLIMB TO 3000 ON PSM VOR/DME R-164 TO IDEED INT/PSM VOR/DME 12.27 DME AND HOLD.
ITAWA INT/PSM VOR/DME 11.98 DME (IF/IAF)	PUDYE INT/PSM VOR/DME 5.98 DME/RADAR	165.07 / 6.00 (I-PGQ)	2000	ALTERNATE MA (DO NOT CHART): CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 3000 ON CON VOR/DME R-130 TO RAYMY/MHT VOR/DME 16.16 DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 344.47 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE RAYMY/MHT 16.16 DME, RT, 239.56 INBOUND.
CHART FAS OBST: 198 TREE 430547N/0705000W
CHART OM IN HALF-TONE.
CHART IN PLANVIEW: RAYMY/MHT 16.16 DME.
CHART: ASR

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD N ITAWA, RT, 165.08 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 165.07 FAF: PUDYE INT/PSM VOR/DME 5.98 DME/RADAR DIST FAF TO MAP: 5.71 THLD: 5.71
4. MIN. ALT: ITAWA 3000, PUDYE 2000, CARAY/PSM VOR/DME 1.57 DME 540*
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 991
6. MIN GS INCPT: 2000 GS ALT AT: PUDYE 2000 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 55.0
8. MSA FROM: PSM VOR/DME 090-180 1600, 180-090 2900

MAG VAR: 16W EPOCH YEAR: 2005

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 16**	300	2400	200	300	2400	200	300	2400	200	300	2400	200	300	2400	200
S-LOC 16	540	2400	440	540	2400	440	540	4000	440	540	5000	440	540	5000	440
CIRCLING	540	1	440	560	1	460	560	1 1/2	460	680	2	580	800	2 1/2	700

CARAY FIX MINIMUMS

S-LOC 16	460	2400	360	460	2400	360	460	2400	360	460	4000	360	460	4000	360
CIRCLING	480	1	380	560	1	460	560	1 1/2	460	680	2	580	800	2 1/2	700

NOTES:
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART NOTE: CIRCLING NA EAST OF RWY 16-34.

CAT E 700-2 1/2
@ CAT E 800-2 1/2

*LOC ONLY
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 16 CAT E VISIBILITY TO RVR 4000 AND S-LOC 16 CAT
(CONTINUED ON PAGE 2)



CITY AND STATE PORTSMOUTH, NH	ELEVATION: 100 TDZE: 100 AIRPORT NAME: PORTSMOUTH INTL AT PEASE	FACILITY IDENTIFIER: I-PGQ	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 16, AMDT 2A 2 MARCH 2017	SUP: AMDT: 2 DATED 07/29/2010
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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NOTES, (CONT.):

E VISIBILITY TO 1 1/2 SM.

CHART NOTE: CARAY FIX MINIMUMS: FOR INOPERATIVE MALSR, INCREASE S-LOC 16 CAT E VISIBILITY TO RVR 6000.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CON VOR/DME AIRWAY RADIALS 061 CW 088.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ENE VOR/DME AIRWAY RADIALS 197 CW 300.



CITY AND STATE PORTSMOUTH, NH	ELEVATION: 100 TDZE: 100 AIRPORT NAME: PORTSMOUTH INTL AT PEASE	FACILITY IDENTIFIER: I-PGQ	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 16, AMDT 2A 2 MARCH 2017	SUP:
				AMDT: 2
				DATED: 07/29/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
NDB STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
PSM VOR/DME	ESG NDB	017.15 / 8.14	1900
CON VOR/DME	ESG NDB	104.71 / 32.78	3100
ENE VOR/DME	ESG NDB	234.41 / 15.51	3000
MHT VOR/DME	ESG NDB	063.29 / 31.81	3000

MAP: 5.53 NM AFTER ESG NDB

CLIMBING RIGHT TURN TO 1900 DIRECT ESG NDB AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 326.92 INBOUND.
FAS OBST: 509 TOWER 431406N/0705335W
CHART: 651 TOWER 431713N/ 0705653W

- PT L SIDE OF COURSE 147.00 OUTBOUND 1900 FT WITHIN 10 MILES OF ESG NDB (IAF)
-
- FAC 326.92 FAF ESG NDB DIST FAF TO MAP 5.53 THLD 5.53
- MIN. ALT ESG NDB 1400
- MSA FROM: ESG NDB 045-225 1900, 225-045 2800

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		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-33	860	1	538	860	1	538	860	1 1/2	538		NA				
CIRCLING	1020	1	698	1020	1	698	1020	2	698		NA				

NOTES:

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORTSMOUTH ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET, AND CIRCLING VISIBILITY CAT B-C 1/4 SM.



CITY AND STATE ROCHESTER, NH	ELEVATION: 322 TDZE: 322 AIRPORT NAME: SKYHAVEN	FACILITY IDENTIFIER: ESG	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 33, AMDT 4C 2 MARCH 2017	SUP AMDT 4B DATE 09/28/2006
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U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
MHT VOR/DME	PSM VOR/DME	076.14 / 26.99	3000
PSM VOR/DME (IF/IAF)	BOVER/PSM VOR/DME 7.10 DME	356.41 / 7.10	2000

MAP: MABKV/PSM VOR/DME 12.40 DME FIX

CLIMBING LEFT TURN TO 3500 ON HEADING 270 AND CON VOR/DME R-095 TO CON VOR/DME AND HOLD.

ALTERNATE MA (DO NOT CHART): CLIMBING RIGHT TURN TO 3000 DIRECT PSM VOR/DME AND HOLD S, RT, 356.40 INBOUND.

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 118.54 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S PSM VOR/DME, RT, 356.40 INBOUND.
CHART FAS OBST: 500 TOWER 431411N/0705335W
CHART 651 TOWER 431716N/0705651W.
CHART IN PLANVIEW: PSM VOR/DME.
FAC CROSSES MIDPOINT OF RWY 15-33.

- PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
- HOLD S PSM VOR/DME, RT, 356.40 INBOUND, 3000 FT. IN LIEU OF PT (IAF)**
- FAC 356.41 FAF BOVER/PSM VOR/DME 7.10 DME DIST FAF TO MAP _____ THLD _____
- MIN. ALT PSM VOR/DME 3000, BOVER 2000
- MSA FROM: **PSM VOR/DME 045-225 2000, 225-045 2900**

MAG VAR: **16W** EPOCH YEAR: **2005**

MINIMUMS

TAKEOFF:	SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A			STANDARD @					
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
CIRCLING	1020	1	698	1020	1	698	1020	2	698		NA				

NOTES:

CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT PSM VOR/DME ON V3 NORTHBOUND. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORTSMOUTH ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET, AND CIRCLING VISIBILITY CAT B-C 1/4 SM.



CITY AND STATE ROCHESTER, NH	ELEVATION: 322 AIRPORT NAME: SKYHAVEN	TDZE:	FACILITY IDENTIFIER: PSM	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME-A, AMDT 2A 2 MARCH 2017	SUP AMDT 2 DATE 12/17/2009
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**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CYN VORTAC (IAF)	UZSOR (FB)	040.36 / 8.89	2000
UZSOR (IF)	VERVI (FB)	060.17 / 5.12	1700
VERVI (FAF)	AVUKE/1.70 NM TO RW06 (FB)	060.17 / 3.38	
AVUKE/1.70 NM TO RW06	RW06 (MAP) (FO)	060.17 / 1.70	
RW06 (MAP)	1000 MSL		1000
1000 MSL	UZSOR (FO)		2000

LP: RW06
LNAV: RW06

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2000 DIRECT UZSOR AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 060.17 INBOUND.
CHART FAS OBST: 118 TREE 400336N/0741102W
FAS OBST: 315 AAO 400227N/0741210W
WAAS CHANNEL # 49038
REFERENCE PATH ID: W06A
VERVI TO RW06: 3.00/40.
CHART CIRCLING ICON.
LTP HAE: -20.3 M

MAG VAR: 13W EPOCH YEAR: 2000

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT UZSOR
- FAC: 060.17 FAF: VERVI DIST FAF TO MAP: 5.08 THLD: 5.08
- MIN. ALT: UZSOR 2000, VERVI 1700, AVUKE/1.70 NM TO RW06 600
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: GS ALT AT: OM: MM: IM:
- GS ANGLE: TCH: 34:1 IS NOT CLEAR
- MSA FROM: RW06 2100

MINIMUMS

TAKEOFF: <u> </u>	SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A <input type="checkbox"/> X <input checked="" type="checkbox"/>								
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
LP MDA	380	1	339	380	1	339		NA			NA				
LNAV MDA	580	1	539	580	1	539		NA			NA				
CIRCLING	580	1	538	620	1	578		NA			NA				

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON CYN VORTAC AIRWAY RADIALS 046 CW 100.
(CONTINUED ON PAGE 2)

QUALITY
22
CHECKED

CITY AND STATE LAKEWOOD, NJ	ELEVATION: 42 TDZE: 41 AIRPORT NAME: LAKEWOOD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 6, AMDT 1 2 MARCH 2017	SUP: AMDT: ORIG-B DATED 12/20/2007
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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 PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LAKEHURST ALTIMETER SETTING AND INCREASE ALL MDA 40 FT.

QUALITY
 22
 CHECKED

CITY AND STATE LAKWOOD, NJ	ELEVATION: 42	TDZE: 41	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 6, AMDT 1 2 MARCH 2017	SUP:	22
	AIRPORT NAME: LAKWOOD				AMDT:	ORIG-B
					DATED:	12/20/2007

**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	N12
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	400352.4955N
LTP/FTP LONGITUDE	0741050.8400W
LTP/FTP ELLIPSOIDAL HEIGHT	-00203
FPAP LATITUDE	400453.0525N
FPAP LONGITUDE	0740925.6410W
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	1920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER E1F3D3CF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00126
FPAP ORTHOMETRIC HEIGHT	+00126

QUALITY
22
CHECKED

CITY AND STATE LAKEWOOD, NJ	ELEVATION: 42	TDZE: 41	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 6, AMDT 1 2 MARCH 2017	SUP:	
	AIRPORT NAME: LAKEWOOD				AMDT:	ORIG-B
					DATED:	12/20/2007

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 - N12

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
CYN	010	CYN	IF	FB										V A
CYN	020	UZSOR	TF	FB	1.0	040.4						AA 02000		EE B
	010	UZSOR	IF	FB								AA 02000		E I
	020	VERVI	TF	FB	1.0	060.2				RW06		AA 01700		E F
	021	AVUKE	TF	FB	0.3	060.2		3.00				AA 00600 GS 00624		E S
	030	RW06	TF	FO	0.3	060.2		3.00				AT 00081		GY M
	040		CA	FB		060.2						AA 01000		M
	050	UZSOR	DF	FO	1.0				R			AA 02000		EY
	060	UZSOR	HM	FO		060.2			R			AA 02000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CYN	N394902.42	W0742553.85
AVUKE	N400243.16	W0741228.32
UZSOR	N395656.32	W0742035.16
VERVI	N400025.33	W0741541.84

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW06	N400352.50	W0741050.84	00041	40

QUALITY
22
CHECKED

CITY AND STATE LAKEWOOD, NJ	ELEVATION: 42 TDZE: 41	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 6, AMDT 1 2 MARCH 2017	SUP:
	AIRPORT NAME: LAKEWOOD			AMDT: ORIG-B
				DATED: 12/20/2007

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

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
MOVFA (IAF)	OTDOZ (FB)	165.47 / 3.92	2000
OTDOZ (IF)	SUTKE (FB)	240.31 / 4.09	1700
SUTKE (FAF)	KANSE/2.20 NM TO RW24 (FB)	240.27 / 2.91	
KANSE/2.20 NM TO RW24	RW24 (MAP) (FO)	240.27 / 2.20	
RW24 (MAP)	442 MSL	240.27	
442 MSL	UZSOR (FO)		2000

LNAV: RW24

CLIMB TO 2000 DIRECT UZSOR AND HOLD.

**ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 060.17 INBOUND.
FAS OBST: 270 AAO 400530N/0740850W
SUTKE TO RW24: 3.00/40.
CHART CIRCLING ICON.**

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. **PROFILE STARTS AT OTDOZ**
3. FAC: 240.27 FAF: SUTKE DIST FAF TO MAP: 5.11 THLD: 5.11
4. MIN. ALT: **OTDOZ 2000, SUTKE 1700, KANSE/2.20 NM TO RW24 760**
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: **RW24 2100**

MAG VAR: **13W** EPOCH YEAR: **2000**

MINIMUMS

TAKEOFF: <u> </u> SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A <input checked="" type="checkbox"/>														
CATEGORY <u>====></u>	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	520	1	478	520	1	478		NA			NA				
CIRCLING	540	1	498	620	1	578		NA			NA				

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MOVFA ON V1-16-229 NORTHEAST BOUND.
 (CONTINUED ON PAGE 2)

CITY AND STATE LAKEWOOD, NJ	ELEVATION: 42 TDZE: 42 AIRPORT NAME: LAKEWOOD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 24, AMDT 1 2 MARCH 2017	SUP: AMDT: ORIG-B DATED 12/20/2007
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QUALITY
22
CHECKED

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

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NOTES, (CONT.):
 CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LAKEHURST ALTIMETER SETTING AND INCREASE ALL MDA 40 FT.

QUALITY
 22
 CHECKED

CITY AND STATE LAKEWOOD, NJ	ELEVATION: 42 AIRPORT NAME: LAKEWOOD	TDZE: 42	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 24, AMDT 1 2 MARCH 2017	SUP:	ORIG-B
					AMDT:	
					DATED:	12/20/2007

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 - N12

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
MOVFA	010	MOVFA	IF	FB										E A
MOVFA	020	OTDOZ	TF	FB	1.0	165.5						AA 02000		EE B
	010	OTDOZ	IF	FB								AA 02000		E I
	020	SUTKE	TF	FB	1.0	240.3				RW24		AA 01700		E F
	021	KANSE	TF	FB	0.3	240.3		3.00				AA 00760 GS 00774		E S
	030	RW24	TF	FO	0.3	240.3		3.00				AT 00073		GY M
	040		CA	FB		240.3						AA 00442		M
	050	UZSOR	DF	FO								AA 02000		EY
	060	UZSOR	HM	FO		060.2			R			AA 02000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
KANSE	N400540.49	W0740818.86
MOVFA	N401354.46	W0740358.46
OTDOZ	N401025.65	W0740136.56
SUTKE	N400739.04	W0740531.80
UZSOR	N395656.32	W0742035.16

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW24	N400410.79	W0741025.11	00033	40

CITY AND STATE LAKEWOOD, NJ	ELEVATION: 42 TDZE: 42	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 24, AMDT 1 2 MARCH 2017	SUP:
	AIRPORT NAME: LAKEWOOD			AMDT: ORIG-B
				DATED: 12/20/2007

QUALITY
22
CHECKED

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
ZUNI PUEBLO, NM	BLACK ROCK	2 MARCH 2017	1

TAKEOFF MINIMUMS:

RWY 6, STANDARD WITH MINIMUM CLIMB OF 485 FT PER NM TO 7700 OR 1600-3 FOR VCOA.
RWY 24, STANDARD

TEXTUAL DEPARTURE PROCEDURES:

RWY 6 - CLIMBING LEFT TURN DIRECT ZUN VORTAC. DO NOT EXCEED 210 KIAS UNTIL COMPLETION OF TURN ESTABLISHED WESTBOUND.
RWY 24 - CLIMB DIRECT ZUN VORTAC.

VISUAL CLIMB OVER AIRPORT:

RWY 6 - VISUAL CLIMB OVER AIRPORT: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS BLACK ROCK AIRPORT AT OR ABOVE 7900, THEN PROCEED DIRECT ZUN VORTAC.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 6, VEHICLE ON ROAD 201 FT FROM DER, CROSSING CENTERLINE, UP TO 15 FT AGL/6474 FT MSL. TREES, BEGINNING 13 FT FROM DER, 131 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/6559 FT MSL. TREES BEGINNING 2914 FT FROM DER, 430 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/6939 FT MSL.

NOTE: RWY 24, TREES BEGINNING ABEAM DER, 231 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/6534 FT MSL. TREES BEGINNING ABEAM DER, 133 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/6534 FT MSL. TREES BEGINNING 421 FT FROM DER, 150 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/6559 FT MSL.

CONTROLLING OBSTACLES:

RWY 6: 7403 FT MSL TOWER, 350658.00N/1084426.00W

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 6: 6939 FT MSL TREE, 350505.92N/1084533.47W. RWY 24: 7374 FT MSL TREE, 350331.01N/1084746.29W

VCOA: 7561 FT MSL AAO, 350156.86N/1084442.11W.

REMARKS:

NO SURVEY FOR AIPORT. VEGETATION HEIGHT OF 100 FT USED PER CURRENTLY PUBLISHED AIRPORT INSTRUMENT APPROACH PROCEDURES.

FLIGHT INSPECTED BY:

JAMES HAWLEY

Digitally signed by
STEVEN A VARGAS
Jan 04, 2017

OFFICE SYMBOL:

FICO

DATE:

12/21/2016

DEVELOPED BY:

JULIE MORGAN (DUSTIN DAVIDSON)

Digitally signed by
STEVEN A VARGAS
Jan 04, 2017

OFFICE SYMBOL:

AJV-5422

DATE:

10/05/2016

APPROVED BY:

TONY LAWSON

Digitally signed by
STEVEN A VARGAS
Jan 04, 2017

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZAB, AMGR, ST AV DIR

CHANGES - REASONS:

CHANGES:

1. RWY NUMBERS CHANGED FROM 7/25 TO 6/24.
2. REMOVED CEILING AND VISIBILITY TAKEOFF MINIMUMS OPTION FROM RWY 6.
3. INCREASED RWY 6 REQUIRED CLIMB GRADIENT FROM 360 FT/NM TO 485 FT/NM.
4. ADDED RWY 6 VCOA.
5. ADDED 210 KIAS SPEED RESTRICTION TO RWY 6.
6. ADDED TAKEOFF OBSTACLE NOTES.
7. UPDATED CONTROLLING OBSTACLES.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
ZUNI PUEBLO, NM	BLACK ROCK	2 MARCH 2017	1

REASONS:

1. MAG VAR UPDATE SINCE PROCEDURE BUILT.
2. NEW CONTROLLING OBSTACLE IN EXTENDED ICA OUTSIDE OF 3 SM FROM DER.
3. NEW CONTROLLING OBSTACLE.
4. CONTROLLING OBSTACLE REQUIRING CLIMB GRADIENT OUTSIDE OF 3 SM FROM DER.
5. LIMIT OUTSIDE TURN EXPANSION DUE TO RISING TERRAIN RIGHT OF CENTERLINE. AIRPORT SERVES CAT A/B/C AIRCRAFT.
6. NOT REQUIRED ON PREVIOUS PROCEDURE BUILD.
7. NEW OBSTACLES AND APPLICATION OF AAO CRITERIA SINCE PROCEDURE ORIGINALLY BUILT.



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

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE	
BEDDE (IF/IAF)	IRACU (TF) (FB) (RNP 1.00)	224.45 / 6.00	2400	LPV: DA LNAV/VNAV: DA LNAV: RW22
IRACU (FAF)	BPANE/2.60 NM TO RW22 (TF) (FB) (RNP 0.30)	224.40 / 1.72		
BPANE/2.60 NM TO RW22	RW22 (MAP) (TF) (FO) (RNP 0.30)	224.40 / 2.60		
RW22 (MAP)	1400 MSL	224.40	1400	CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 3400 DIRECT BEDDE AND HOLD.
1400 MSL	BEDDE (DF) (FO) (RNP 1.00)		3400	

ADDITIONAL FLIGHT DATA:
 DISTANCE TO THLD FROM 250 HAT: 0.65 NM.
 CHART VDP AT 1.18 NM TO RW22*
 *LNAV ONLY.
 WAAS CHANNEL # 42838
 REFERENCE PATH ID: W22A
 CHART CIRCLING ICON.
 CHART FAS OBST: 1120 TREE 401927N/0814924W
 LTP HAE: 264.9 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD NE BEDDE, RT, 224.45 INBOUND, 3400 FT. IN LIEU OF PT (IAF)
3. FAC: 224.40 FAF: IRACU DIST FAF TO MAP: 4.32 THLD: 4.32
4. MIN. ALT: **BEDDE 3400, IRACU 2400, BPANE/2.60 NM TO RW22 1840***
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2400 GS ALT AT: IRACU 2400 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR
8. MSA FROM:

MAG VAR: **7W** EPOCH YEAR: **2000**

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A <input checked="" type="checkbox"/>								
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	1229	3/4	250	1229	3/4	250	1229	3/4	250	1229	3/4	250			
LNAV/VNAV DA	1439	1 5/8	460	1439	1 5/8	460	1439	1 5/8	460	1439	1 5/8	460			
LNAV MDA	1380	1	401	1380	1	401	1380	1 1/8	401	1380	1 1/8	401			
CIRCLING	1440	1	461	1520	1	541	1780	2 1/4	801	1780	2 1/2	801			

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 ZANESVILLE ALTIMETER SETTING.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 (CONTINUED ON PAGE 2)

QUALITY
10
CHECKED

CITY AND STATE COSHOCTON, OH	ELEVATION: 979 TDZE: 979 AIRPORT NAME: RICHARD DOWNING	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 1 2 MARCH 2017	SUP: AMDT: ORIG DATED 04/28/2016
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ZANESVILLE ALTIMETER SETTING AND INCREASE LPV DA TO 1291 FEET AND ALL VISIBILITIES 1/4 SM, INCREASE LNAV/VNAV DA TO 1501 FEET AND ALL VISIBILITIES 1/8 SM, INCREASE ALL MDA 80 FEET AND LNAV CAT C/D VISIBILITY 1/4 SM, CIRCLING CAT C/D VISIBILITY 1/2 SM.

TAA	FROM	TO	ALT
1.	134/30 CW 314/30 (NOPT)	BEDDE (IF/IAF) (FB)	3400
2.	314/30 CW 134/30	BEDDE (IAF) (FO)	3400

QUALITY
10
CHECKED

CITY AND STATE COSHOCTON, OH	ELEVATION: 979 TDZE: 979 AIRPORT NAME: RICHARD DOWNING	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 1 2 MARCH 2017	SUP:
				AMDT: ORIG
				DATED: 04/28/2016

**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	I40
RUNWAY	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	401856.2190N
LTP/FTP LONGITUDE	0815049.0650W
LTP/FTP ELLIPSOIDAL HEIGHT	+02649
FPAP LATITUDE	401745.3425N
FPAP LONGITUDE	0815159.7275W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
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

CRC REMAINDER 8B6B7CBA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02983
FPAP ORTHOMETRIC HEIGHT	+02983

QUALITY
10
CHECKED

CITY AND STATE COSHOCTON, OH	ELEVATION: 979 TDZE: 979 AIRPORT NAME: RICHARD DOWNING	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 1 2 MARCH 2017	SUP:
				AMDT: ORIG
				DATED: 04/28/2016

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

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TAA	FROM	TO	ALT
1.	166/30 CW 346/30 (NOPT)	SALTZ (IF/IAF) (FB)	6100
2.	346/30 CW 166/30	SALTZ (IF/IAF) (FO)	6100

CITY AND STATE
CROSSVILLE, TN

ELEVATION: 1881 **TDZE: 1871**
 AIRPORT NAME:
CROSSVILLE MEMORIAL-WHITSON FIELD

FACILITY IDENTIFIER:
I-CSV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS Y OR LOC Y RWY 26, ORIG-B
 2 MARCH 2017

SUP: **4**
 AMDT: **ORIG-A**
 DATED: **05/28/2015**

QUALITY

CHECKED

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: 4.66 NM AFTER HYDER OM/INT OR AT (CFBWP)
HCH VOR/DME	HYDER OM/INT	002.91 / 11.80	4700	CLIMB TO 3000 THEN CLIMBING LEFT TURN TO 5000 ON HEADING 180 AND HCH VOR/DME R-303 TO HCH VOR/DME AND HOLD.
				ADDITIONAL FLIGHT DATA: HOLD SE, RT, 335.04 INBOUND. FAS OBST: 2179 AAO 355859N/0845926W CHART IN PLANVIEW: HCH 11.80 DME AT HYDER OM/INT. CHART CIRCLING ICON

- PT L SIDE OF COURSE 075.46 OUTBOUND 4300 FT WITHIN 10 MILES OF HYDER OM (IAF)
-
- FAC: 255.46 FAF: HYDER OM/INT DIST FAF TO MAP: 4.66 THLD: 5.16
- MIN. ALT: SAYCO INT 4100, HYDER OM 3600
- DIST TO THLD FROM OM: 5.16 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1075
- MIN GS INCPT: 3600 GS ALT AT: - OM: 3595 MM: - IM: -
- GS ANGLE: 3.00 TCH: 60.0
- MSA FROM: HCH VOR/DME 4300

MAG VAR: 2W

EPOCH YEAR: 1990

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 26	2090	3/4	219	2090	3/4	219	2090	3/4	219	2090	3/4	219				
S-LOC 26	2440	1	569	2440	1	569	2440	1 5/8	569	2440	1 5/8	569				
CIRCLING	2440	1	559	2440	1	559	2440	1 5/8	559	2520	2	639				

NOTES:
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PROFILE NOTE: LOC UNUSABLE INSIDE 0.5 NM.

CAT D 700-2

CITY AND STATE CROSSVILLE, TN	ELEVATION: 1881 TDZE: 1871 AIRPORT NAME: CROSSVILLE MEMORIAL-WHITSON FIELD	FACILITY IDENTIFIER: I-CSV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS Z OR LOC Z RWY 26, AMDT 14B 2 MARCH 2017	SUP: 4 AMDT: 14A DATED 05/28/2015
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QUALITY

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
HCH VOR/DME (IF/IAF)	DAUBY/6.40 DME	335.04 / 6.40	4000

MAP: ATITE/11.37 DME FIX
CLIMB TO 3000 THEN CLIMBING LEFT TURN TO 5000 DIRECT HCH VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 2084 TOWER 355502N/0850528W
FAC CROSSES MIDPOINT OF RWY 8 - 26.

- PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
- HOLD SE HCH VOR/DME, RT, 335.04 INBOUND, 5000 FT. IN LIEU OF PT (IAF)**
- FAC 335.04 FAF DAUBY/6.40 DME DIST FAF TO MAP _____ THLD _____
- MIN. ALT HCH VOR/DME 5000, DAUBY 4000
- MSA FROM: HCH VOR/DME 4300

MAG VAR: **2W** EPOCH YEAR: **1985**

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A		X												
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
CIRCLING	2340	1	459	2340	1	459	2340	1 1/2	459	2440	2	559			

NOTES:

CITY AND STATE CROSSVILLE, TN	ELEVATION: 1881 TDZE:	FACILITY IDENTIFIER: HCH	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME-A, AMDT 9A 2 MARCH 2017	SUP	<i>QUALITY</i>
	AIRPORT NAME: CROSSVILLE MEMORIAL-WHITSON FIELD			AMDT	4 <i>CHECKED</i>
				DATE	9 03/12/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
LVT VOR/DME (IAF)	BEMER/7.00 DME	145.00 / 7.00	3300
BEMER/7.00 DME (IF)	ACKNE/13.00 DME	145.00 / 6.00 (LVT R-145)	3300

MAP: MAFHI/17.42 DME

CLIMBING LEFT TURN TO 4000 DIRECT LVT VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 145.00 INBOUND.
FAS OBST: 2000 AAO 362502N/0845932W
FAC CROSSES MID POINT OF RWY 18-36.
CHART CIRCLING ICON.
CHART CROSSVILLE ASOS.

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT BEMER/7.00 DME
- FAC 145.00 FAF ACKNE/13.00 DME DIST FAF TO MAP THLD
- MIN. ALT BEMER 3300, ACKNE 3300
- MSA FROM: LVT VOR/DME 180-270 3900, 270-180 3300

MAG VAR: **2W** EPOCH YEAR: **1985**

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N	A	X												
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
CIRCLING	2700	1 1/4	1006	2700	1 1/2	1006	2700	3	1006		NA				

NOTES:
CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF, WHEN NOT RECEIVED, USE CROSSVILLE ALTIMETER SETTING.
CHART NOTE: CIRCLING RWY 18 NA AT NIGHT.
CHART NOTE: DME REQUIRED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON LTV VOR/DME AIRWAY RADIALS 125 CW 171.



CITY AND STATE JAMESTOWN, TN	ELEVATION: 1694 TDZE:	FACILITY IDENTIFIER: LVT	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, AMDT 2 2 MARCH 2017	SUP VOR/DME OR GPS- A
	AIRPORT NAME: JAMESTOWN MUNI			AMDT 1B
				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

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
LVT VOR/DME (IF/IAF)	INDEP/LVT 8.00 DME	216.25 / 8.00	2700

MAP: MAGOW/LVT 11.00 DME FIX

CLIMBING RIGHT TURN TO 4000 DIRECT LVT VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 1519 TREE 362602N/0851952W
CHART 1639 TREE 362538N/0852018W.
INDEP TO RW21: 3.07/40.

- PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
- HOLD NW LVT VOR/DME, RT, 145.00 INBOUND, 3300 FT. IN LIEU OF PT (IAF)
- FAC 216.25 FAF INDEP/LVT 8.00 DME DIST FAF TO MAP _____ THLD 3.96
- MIN. ALT LVT VOR/DME 3300, INDEP 2700
- MSA FROM: LVT VOR/DME 270-090 3000, 090-180 3300, 180-270 3900

MAG VAR: 2W EPOCH YEAR: 1985

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A X								
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-21	1880	1 1/4	508	1880	1 1/4	508	1880	1 1/2	508	1880	1 1/2	508			
CIRCLING	1880	1 1/4	508	2080	1 1/4	708	2080	2	708	2080	2 1/4	708			

NOTES:
 CHART NOTE: CIRCLING RWY 3 NA AT NIGHT.
 CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON LVT VOR/DME AIRWAY RADIALS 335 CW 064.
 CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.
 (CONTINUED ON PAGE 2)

QUALITY
4

CITY AND STATE LIVINGSTON, TN	ELEVATION: 1372 TDZE: 1372	FACILITY IDENTIFIER: LVT	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 21, AMDT 5C 2 MARCH 2017	SUP
	AIRPORT NAME: LIVINGSTON MUNI			CHECKED
	AMDT 5B			
DATE 09/15/2016				

**VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23**

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CROSSVILLE ALTIMETER SETTING AND INCREASE ALL MDA 140 FEET AND INCREASE S-21 CAT C VISIBILITY 1/4 MILE, S-21 CAT D VISIBILITY AND CIRCLING CAT C/D VISIBILITIES 1/2 MILE.



CITY AND STATE LIVINGSTON, TN	ELEVATION: 1372 TDZE: 1372 AIRPORT NAME: LIVINGSTON MUNI	FACILITY IDENTIFIER: LVT	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 21, AMDT 5C 2 MARCH 2017	SUP:
				AMDT: 5B
				DATED: 09/15/2016

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
HCH VOR/DME	MINES/28.90 DME	060.44 / 28.90	5200
MINES/28.90 DME (IF/IAF)	GIGEL/22.88 DME	240.44 / 6.02 (HCH R-060)	3600

MAP: WIPUT/17.82 DME

CLIMB TO 2400 THEN CLIMBING LEFT TURN TO 5200 ON HEADING 020 AND HCH R-060 TO MINES/28.90 DME AND HOLD.

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 1719 TREE 355844N/0843652W
GIGEL TO RW22: 3.00/40.

- PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
- HOLD NE MINES, LT, 240.44 INBOUND, 5200 FT. IN LIEU OF PT (IAF)**
- FAC 240.44 FAF GIGEL/22.88 DME DIST FAF TO MAP _____ THLD **6.06**
- MIN. ALT MINES 5200, GIGEL 3600
- MSA FROM: **HCH VOR/DME 4300**

MAG VAR: **2W** EPOCH YEAR: **1985**

MINIMUMS

TAKEOFF:	SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A	STANDARD @								
CATEGORY =====>	A			B			C			D			E			
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-22	2160	1 1/4	498	2160	1 1/4	498	2160	1 1/4	498	2160	1 1/2	498				
CIRCLING	2160	1 1/4	496	2160	1 1/4	496	2180	1 1/2	516	2260	2	596				

NOTES:

CHART NOTE: CIRCLING RWY 4 NA AT NIGHT. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CROSSVILLE ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET, AND S-22 CATS C/D AND CIRCLING CAT D VISIBILITY 1/4 SM.

CITY AND STATE ROCKWOOD, TN	ELEVATION: 1664 TDZE: 1662	FACILITY IDENTIFIER: HCH	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 22, AMDT 6B 2 MARCH 2017	SUP
	AIRPORT NAME: ROCKWOOD MUNI			AMDT 6A
	DATE 05/30/2013			



**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
NDB STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27**

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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

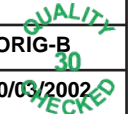
ALTERNATE: N A

CATEGORY =====>	MDA	VIS	MDA	VIS	MDA	VIS	MDA	VIS	MDA	VIS	MDA	VIS

NOTES:

PROCEDURE CANCELED EFFECTIVE 2 MARCH 2017

CITY AND STATE CROSBYTON, TX	ELEVATION: 3018 TDZE: 3017 AIRPORT NAME: CROSBYTON MUNI	FACILITY IDENTIFIER: CZX	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 35, ORIG-C, 12/16/2010	SUP AMDT DATE	ORIG-B 10/03/2002
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**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE	
AXWUB (IAF)	SILIW (NOPT) (TF) (FB) (RNP 1.00)	267.64 / 9.30	3100	LPV: DA LNAV/VNAV: DA LNAV: RW18
DAGHU (IAF)	SILIW (NOPT) (TF) (FB) (RNP 1.00)	087.46 / 9.30	3100	CLIMB TO 1300 THEN CLIMBING LEFT TURN TO 3000 DIRECT DARTE AND HOLD.
SILIW (IF/IAF)	FIHNU (TF) (FB) (RNP 1.00)	177.55 / 7.00	2400	
FIHNU (FAF)	FORNA/2.10 NM TO RW18 (TF) (FB) (RNP 0.30)	177.54 / 2.86		ADDITIONAL FLIGHT DATA: HOLD SW, RT, 060.00 INBOUND. CHART FAS OBST: 861 TREE 304121N/0974106W 1073 AAO 304618N/0973836W. DISTANCE TO THLD FROM 250 HAT: 0.68 NM. CHART VDP AT 0.94 NM TO RW18* *LNAV ONLY. WAAS CHANNEL # 62938 REFERENCE PATH ID: W18A CHART CIRCLING ICON. LTP HAE: 213.3 M
FORNA/2.10 NM TO RW18	RW18 (MAP) (TF) (FO) (RNP 0.30)	177.54 / 2.10		
(SEE FORM 8260-10)				

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD N SILIW, RT, 177.55 INBOUND, 3100 FT. IN LIEU OF PT (IAF)
3. FAC: 177.54 FAF: FIHNU DIST FAF TO MAP: 4.96 THLD: 4.96
4. MIN. ALT: **SILIW 3100, FIHNU 2400, FORNA/2.10 NM TO RW18 1480***
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2400 GS ALT AT: FIHNU 2400 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 35.0 34:1 IS CLEAR
8. MSA FROM:

MAG VAR: 6E 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	1036	7/8	250	1036	7/8	250	1036	7/8	250	1036	7/8	250			
LNAV/VNAV DA	1036	7/8	250	1036	7/8	250	1036	7/8	250	1036	7/8	250			
LNAV MDA	1120	1	334	1120	1	334	1120	1	334	1120	1	334			
CIRCLING	1240	1	450	1280	1	490	1360	1 1/2	570	1640	2 3/4	850			

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).
 CHART NOTE: CIRCLING RWY 11, 29 NA AT NIGHT.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SKYLARK FIELD ALTIMETER SETTING.
 (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT D 900-2 3/4

QUALITY
10
CHECKED

CITY AND STATE GEORGETOWN, TX	ELEVATION: 790 TDZE: 786 AIRPORT NAME: GEORGETOWN MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 2 2 MARCH 2017	SUP: AMDT: 1 DATED 12/10/2015
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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.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
RW18 (MAP)	1300 MSL	177.54	1300
1300 MSL	DARTE (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SKYLARK FIELD ALTIMETER SETTING AND INCREASE ALL DA 65 FEET, AND ALL MDA 80 FEET; INCREASE LPV, LNAV/VNAV ALL CATS, AND LNAV AND CIRCLING CAT C AND D VISIBILITY 1/4 SM.

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	088/30 CW 268/30 (NOPT)	088/15 CW 268/15	3600
2.	088/15 CW 268/15	SILIW (IF/IAF) (FB)	3100
3.	268/30 CW 358/30	268/15 CW 358/15	4100
4.	268/15 CW 358/15	AXWUB (IAF) (FB)	3100
5.	358/30 CW 088/30	358/10 CW 088/10	4100
6.	358/10 CW 088/10	DAGHU (IAF) (FB)	3100



CITY AND STATE GEORGETOWN, TX	ELEVATION: 790 TDZE: 786 AIRPORT NAME: GEORGETOWN MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 2 2 MARCH 2017	SUP:
				AMDT: 1
				DATED: 12/10/2015

**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	KGTU
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	304109.2435N
LTP/FTP LONGITUDE	0974040.5015W
LTP/FTP ELLIPSOIDAL HEIGHT	+02133
FPAP LATITUDE	303940.1085N
FPAP LONGITUDE	0974046.8805W
THRESHOLD CROSSING HEIGHT (TCH)	00035.0
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

CRC REMAINDER 41CCC1BC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+02395
FPAP ORTHOMETRIC HEIGHT	+02395



CITY AND STATE GEORGETOWN, TX	ELEVATION: 790	TDZE: 786	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 2 2 MARCH 2017	SUP:
	AIRPORT NAME: GEORGETOWN MUNI				AMDT: 1
					DATED: 12/10/2015

**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	
ZIGZE (IAF)	LUKVE (NOPT) (TF) (FB) (RNP 1.00)	087.44 / 9.30	3100	LPV: DA LNAV/VNAV: DA LNAV: RW36
EWETU (IAF)	LUKVE (NOPT) (TF) (FB) (RNP 1.00)	267.62 / 9.30	3100	
LUKVE (IF/IAF)	ACVEK (TF) (FB) (RNP 1.00)	357.53 / 7.00	2500	CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT DARTE AND HOLD.
ACVEK (FAF)	HOPAG/3.30 NM TO RW36 (TF) (FB) (RNP 0.30)	357.54 / 2.05		
HOPAG/3.30 NM TO RW36 (SEE FORM 8260-10)	RW36 (MAP) (TF) (FO) (RNP 0.30)	357.54 / 3.30		

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 060.00 INBOUND.
CHART FAS OBST: 963 BLDG 303835N/0974016W
CHART 1454 TOWER 303512N/0974056W.
998 AAO 303703N/0971439W.
1454 TOWER 303512N/0974056W.
DISTANCE TO THLD FROM 250 HAT: 0.68 NM.
CHART VDP AT 1.32 NM TO RW36*
*LNAV ONLY.
WAAS CHANNEL # 72738
REFERENCE PATH ID: W36A
CHART CIRCLING ICON.
LTP HAE: 201.7 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD **S** LUKVE, RT, 357.53 INBOUND, 3100 FT. IN LIEU OF PT (IAF)
3. FAC: 357.54 FAF: ACVEK DIST FAF TO MAP: 5.35 THLD: 5.35
4. MIN. ALT: **LUKVE 3100, ACVEK 2500, HOPAG/3.30 NM TO RW36 1840***
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2500 GS ALT AT: **ACVEK 2500** OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 49.9 34:1 IS NOT CLEAR
8. MSA FROM:

MAG VAR: 6E 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	1015	7/8	250	1015	7/8	250	1015	7/8	250	1015	7/8	250			
LNAV/VNAV DA	1242	1 5/8	477	1242	1 5/8	477	1242	1 5/8	477	1242	1 5/8	477			
LNAV MDA	1220	1	455	1220	1	455	1220	1 3/8	455	1220	1 3/8	455			
CIRCLING	1240	1	450	1280	1	490	1360	1 1/2	570	1640	2 3/4	850			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).
CHART NOTE: CIRCLING RWY 11, 29 NA AT NIGHT.
CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: DME/DME RNP-0.3 NA.
(CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
@ CAT D 900-2 3/4

QUALITY
10
CHECKED

CITY AND STATE GEORGETOWN, TX	ELEVATION: 790 TDZE: 765 AIRPORT NAME: GEORGETOWN MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 2 2 MARCH 2017	SUP: AMDT: 1 DATED 12/10/2015
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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.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
RW36 (MAP)	1300 MSL	357.54	1300
1300 MSL	DARTE (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SKYLARK FIELD ALTIMETER SETTING.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SKYLARK FIELD ALTIMETER SETTING AND INCREASE ALL DA 65 FEET, AND ALL MDA 80 FEET; INCREASE LPV, LNAV/VNAV ALL CATS VISIBILITY 1/4 SM, LNAV CAT C AND D 1/8 SM, AND CIRCLING CAT C AND D 1/4 SM.

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	268/30 CW 088/30 (NOPT)	LUKVE (IF/IAF) (FB)	3100
2.	088/30 CW 178/30	088/13 CW 178/13	4100
3.	088/13 CW 178/13	ZIGZE (IAF) (FB)	3100
4.	178/30 CW 268/30	EWETU (IAF) (FB)	3100

QUALITY
10
CHECKED

CITY AND STATE GEORGETOWN, TX	ELEVATION: 790	TDZE: 765	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 2 2 MARCH 2017	SUP:	
	AIRPORT NAME: GEORGETOWN MUNI				AMDT: 1	
					DATED: 12/10/2015	

**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	KGTU
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	304019.8165N
LTP/FTP LONGITUDE	0974044.0400W
LTP/FTP ELLIPSOIDAL HEIGHT	+02017
FPAP LATITUDE	304148.9515N
FPAP LONGITUDE	0974037.6595W
THRESHOLD CROSSING HEIGHT (TCH)	00049.9
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

CRC REMAINDER CAA551EF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+02278
FPAP ORTHOMETRIC HEIGHT	+02278

QUALITY
10
CHECKED

CITY AND STATE GEORGETOWN, TX	ELEVATION: 790	TDZE: 765	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 2 2 MARCH 2017	SUP:	10
	AIRPORT NAME: GEORGETOWN MUNI				AMDT:	1
					DATED:	12/10/2015

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ZOKAP (IAF)	TILYU (NOPT) (TF) (FB) (RNP 1.00)	155.87 / 10.00	5700
WIRVU (IAF)	TILYU (NOPT) (TF) (FB) (RNP 1.00)	335.99 / 10.00	5700
TILYU (IF/IAF)	SACGO (TF) (FB) (RNP 1.00)	065.93 / 7.59	3400
SACGO (FAF)	HONEB/3.00 NM TO RW07 (TF) (FB) (RNP 0.30)	066.01 / 3.26	
HONEB/3.00 NM TO RW07 (SEE FORM 8260-10)	RW07 (MAP) (TF) (FO) (RNP 0.30)	066.01 / 3.00	

LPV: DA
LNAV/VNAV: DA
LNAV: RW07

CLIMB TO 5600 DIRECT OKLUH AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5600. CHART NOTE: ** MISSED APPROACH REQUIRES MINIMUM CLIMB GRADIENT OF 240 FEET PER NM TO 3400.

ADDITIONAL FLIGHT DATA:
HOLD NE, LT, 246.24 INBOUND.
2459 AAO 363452.00N/0831851.00W
1719 AAO 363754.00N/0831724.00W
DISTANCE TO THLD FROM 250 HAT: 0.74 NM.
CHART VDP AT 2.10 NM TO RW07*
*LNAV ONLY.
WAAS CHANNEL # 78430
REFERENCE PATH ID: W07A
CHART CIRCLING ICON.
SACGO TO RW07: 3.00/40.
LTP HAE: 385.5 M

MAG VAR: 6W EPOCH YEAR: 2005

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SW TILYU, RT, 065.93 INBOUND, 5700 FT. IN LIEU OF PT (IAF)
3. FAC: 066.01 FAF: SACGO DIST FAF TO MAP: 6.26 THLD: 6.26
4. MIN. ALT: TILYU 5700, SACGO 3400, HONEB/3.00 NM TO RW07 2360*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 3400 GS ALT AT: SACGO 3400 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
8. MSA FROM:

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**	1643	1	250	1643	1	250	1643	1	250		NA				
LPV DA	1881	1 3/4	488	1881	1 3/4	488	1881	1 3/4	488		NA				
LNAV/VNAV DA	2024	2 1/2	631	2024	2 1/2	631	2024	2 1/2	631		NA				
LNAV MDA	2080	1	687	2080	1	687	2080	1 3/4	687		NA				
CIRCLING	2140	1	729	2180	1	769	2600	3	1189		NA				

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: RWY 07 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
@ CAT C 1200-3

CITY AND STATE JONESVILLE, VA	ELEVATION: 1411 TDZE: 1393 AIRPORT NAME: LEE COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 2 2 MARCH 2017	SUP: AMDT: 1A DATED 06/25/2015
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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.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
RW07 (MAP)	1643 MSL	066.01	

1643 MSL	OKLUH (DF) (FO) (RNP 1.00)		5600
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TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	336/30 CW 156/30 (NOPT)	TILYU (IF/IAF) (FB)	5700
2.	156/30 CW 246/30	156/10 CW 246/10	6000
3.	156/10 CW 246/10	ZOKAP (IAF) (FB)	5700
4.	246/30 CW 336/30	WIRVU (IAF) (FB)	5700

CITY AND STATE JONESVILLE, VA	ELEVATION: 1411 TDZE: 1393 AIRPORT NAME: LEE COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 2 2 MARCH 2017	SUP:
				AMDT: 1A
				DATED: 06/25/2015

**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	0VG
RUNWAY	RW07
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W07A
LTP/FTP LATITUDE	363902.3715N
LTP/FTP LONGITUDE	0831330.8500W
LTP/FTP ELLIPSOIDAL HEIGHT	+03855
FPAP LATITUDE	363946.8625N
FPAP LONGITUDE	0831154.8670W
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	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 8FA05084

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+04163
FPAP ORTHOMETRIC HEIGHT	+04163

CITY AND STATE JONESVILLE, VA	ELEVATION: 1411 TDZE: 1393 AIRPORT NAME: LEE COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 2 2 MARCH 2017	SUP: QUALITY
				AMDT: 1A
				DATED: 06/25/2015

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

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TERMINAL ROUTES				MISSED APPROACH	
FROM	TO	COURSE AND DISTANCE	ALTITUDE		
IMNEH (IAF)	OKLUH (NOPT) (TF) (FB) (RNP 1.00)	336.22 / 10.00	5600	LPV: DA LNAV/VNAV: DA LNAV: RW25	
TOFTS (IAF)	OKLUH (NOPT) (TF) (FB) (RNP 1.00)	156.19 / 10.00	5600	CLIMB TO 5000 DIRECT TILYU AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.	
OKLUH (IF/IAF)	ZETER (TF) (FB) (RNP 1.00)	246.26 / 5.21	4700		
ZETER	RABTE (TF) (FB) (RNP 1.00)	246.20 / 3.73	3700		
RABTE (FAF)	WEDNA/3.50 NM TO RW25 (TF) (FB) (RNP 0.30)	246.16 / 2.97			
(SEE FORM 8260-10)				ADDITIONAL FLIGHT DATA: HOLD SW, RT, 065.93 INBOUND. 2628 AAO 364439N/0830554W 2038 AAO 364139N/0830845W DISTANCE TO THLD FROM 303 HAT: 0.71 NM. CHART VDP AT 2.18 NM TO RW25* *LNAV ONLY. WAAS CHANNEL # 82717 REFERENCE PATH ID: W25A CHART CIRCLING ICON. LTP HAE: 399.2 M	

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD NE OKLUH, LT, 246.24 INBOUND, 5600 FT. IN LIEU OF PT (IAF)
3. FAC: 246.16 FAF: RABTE DIST FAF TO MAP: 6.47 THLD: 6.47
4. MIN. ALT: OKLUH 5600, ZETER 4700, RABTE 3700, WEDNA/3.50 NM TO RW25 2580*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 3700 GS ALT AT: RABTE 3700 OM: MM: IM:
7. GS ANGLE: 3.25 TCH: 58.0 34:1 IS NOT CLEAR
8. MSA FROM:

MAG VAR: **6W** EPOCH YEAR: **2005**

MINIMUMS

TAKEOFF: <u> </u> SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: <u>NA</u>	@ <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	1714	1	303	1714	1	303	1714	1	303		NA				
LNAV/VNAV DA	2284	3	873	2284	3	873	2284	3	873		NA				
LNAV MDA	2220	1	809	2220	1 1/4	809	2220	2 1/2	809		NA				
CIRCLING	2220	1	809	2220	1	809	2600	3	1189		NA				

NOTES:
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: DME/DME RNP-0.3 NA. @ CAT A, B 900-2, CAT C 1200-3
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CITY AND STATE JONESVILLE, VA	ELEVATION: 1411 TDZE: 1411 AIRPORT NAME: LEE COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 25, AMDT 2 2 MARCH 2017	SUP: 4 AMDT: 1 DATED 09/23/2010
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QUALITY

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.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
WEDNA/3.50 NM TO RW25	RW25 (MAP) (TF) (FO) (RNP 0.30)	246.16 / 3.50	
RW25 (MAP)	1714 MSL	246.16	
1714 MSL	TILYU (DF) (FO) (RNP 1.00)		5000

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	156/30 CW 336/30 (NOPT)	156/4 CW 336/4	6500
2.	156/4 CW 336/4	OKLUH (IF/IAF) (FB)	5600
3.	336/30 CW 066/30	IMNEH (IAF) (FB)	5600
4.	066/30 CW 156/30	TOFTS (IAF) (FB)	6200

CITY AND STATE JONESVILLE, VA	ELEVATION: 1411 TDZE: 1411 AIRPORT NAME: LEE COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 25, AMDT 2 2 MARCH 2017	SUP: 4
				AMDT: CHECKED
				DATED: 09/23/2010

QUALITY

**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	0VG
RUNWAY	RW25
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W25A
LTP/FTP LATITUDE	363927.0385N
LTP/FTP LONGITUDE	0831237.6430W
LTP/FTP ELLIPSOIDAL HEIGHT	+03992
FPAP LATITUDE	363842.5400N
FPAP LONGITUDE	0831413.6140W
THRESHOLD CROSSING HEIGHT (TCH)	00058.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.25
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 74D1C886

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+04300
FPAP ORTHOMETRIC HEIGHT	+04300

CITY AND STATE
JONESVILLE, VA

ELEVATION: 1411 TDZE: 1411
AIRPORT NAME:
LEE COUNTY

FACILITY IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 25, AMDT 2
2 MARCH 2017

SUP: 4
AMDT: CHECKED
DATED: 09/23/2010

QUALITY

**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	HOMUB
OGSOF (IF/IAF)	CUBEG (TF) (FB) (RNP 1.00)	033.08 / 6.01	2000	CLIMBING LEFT TURN TO 2400 DIRECT OGSOF AND HOLD.
CUBEG (FAF)	HOMUB (MAP) (TF) (FO) (RNP 0.30)	034.33 / 4.01		
HOMUB (MAP)	926 MSL	034.33		ADDITIONAL FLIGHT DATA: FAS OBST: 739 AAO 365547N/0781231W CHART PICKETT 2 MOA. CHART PICKETT 3 MOA. CHART R-6602 A, B & C. CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.
926 MSL	OGSOF (DF) (FO) (RNP 1.00)		2400	

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD SW OGSOF, RT, 033.08 INBOUND, 2400 FT. IN LIEU OF PT (IAF)
- FAC: 034.33 FAF: CUBEG DIST FAF TO MAP: 4.01 THLD: 4.50
- MIN. ALT: OGSOF 2400, CUBEG 2000
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: GS ALT AT: OM: MM: IM:
- GS ANGLE: TCH:
- MSA FROM:

MAG VAR: 10W EPOCH YEAR: 2010

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	1000	1	474	1080	1	554		NA			NA					

NOTES:
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BLACKSTONE ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET.



CITY AND STATE KENBRIDGE, VA	ELEVATION: 526 TDZE: AIRPORT NAME: LUNENBURG COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS)-A, ORIG 2 MARCH 2017	SUP: AMDT: NONE DATED
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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.

TAA	FROM	TO	ALT
1.	303/30 CW 123/30 (NOPT)	OGSOF (IF/IAF) (FB)	2400
2.	123/30 CW 303/30	OGSOF (IF/IAF) (FO)	2400

QUALITY
10
CHECKED

CITY AND STATE KENBRIDGE, VA	ELEVATION: 526	TDZE:	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS)-A, ORIG 2 MARCH 2017	SUP: CHECKED
	AIRPORT NAME: LUNENBURG COUNTY				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	KOVBE
JIDNO (IF/IAF)	JIRUS (TF) (FB) (RNP 1.00)	213.18 / 6.01	2000	CLIMBING RIGHT TURN TO 2100 DIRECT JIDNO AND HOLD.
JIRUS (FAF)	KOVBE (MAP) (TF) (FO) (RNP 0.30)	214.38 / 4.01		
KOVBE (MAP)	926 MSL	214.38		
926 MSL	JIDNO (DF) (FO) (RNP 1.00)		2100	ADDITIONAL FLIGHT DATA: FAS OBST: 709 AAO 365956N/0781025W CHART PICKETT 2 MOA. CHART PICKETT 3 MOA. CHART R-6602 A, B & C. CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD NE JIDNO, RT, 213.18 INBOUND, 2100 FT. IN LIEU OF PT (IAF)
3. FAC: 214.38 FAF: JIRUS DIST FAF TO MAP: 4.01 THLD: 4.50
4. MIN. ALT: **JIDNO 2100, JIRUS 2000**
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:

MAG VAR: **10W** EPOCH YEAR: **2010**

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	1540	3	1014	1540	3	1014									

NOTES:
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: DME/DME RNP-0.3 NA. @ CAT A, B 1100-3
 CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BLACKSTONE ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET.



CITY AND STATE KENBRIDGE, VA	ELEVATION: 526 TDZE: AIRPORT NAME: LUNENBURG COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS)-B, ORIG 2 MARCH 2017	SUP: AMDT: NONE DATED
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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.

TAA

	FROM	TO	ALT
1.	123/30 CW 303/30 (NOPT) 123/5 CW 303/5	123/5 CW 303/5 JIDNO (IF/IAF) (FB)	2600 2100
2.	303/30 CW 123/30 303/5 CW 123/5	303/5 CW 123/5 JIDNO (IF/IAF) (FO)	2300 2100

QUALITY
10
CHECKED

CITY AND STATE KENBRIDGE, VA	ELEVATION: 526	TDZE:	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS)-B, ORIG 2 MARCH 2017	SUP: CHECKED
	AIRPORT NAME: LUNENBURG COUNTY				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	
SANDR (IAF)	ZOLGI (NOPT) (TF) (FB) (RNP 1.00)	052.63 / 18.23	4000	LPV: DA LNAV/VNAV: DA LNAV: RW02
OLM VORTAC (IAF)	ZOLGI (NOPT) (TF) (FB) (RNP 1.00)	339.37 / 18.15	4000	CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 4000 DIRECT ZOLGI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.
ZOLGI (IF/IAF)	CEBOD (TF) (FB) (RNP 1.00)	009.77 / 9.33	2100	
CEBOD (FAF)	RW02 (MAP) (TF) (FO) (RNP 0.30)	016.72 / 5.02		
RW02 (MAP)	1200 MSL	016.72	1200	ADDITIONAL FLIGHT DATA: CHART FAS OBST: 626 TREE 472853N/1224559W DISTANCE TO THLD FROM 328 HAT: 0.85 NM. WAAS CHANNEL # 49232 REFERENCE PATH ID: W02A CHART CIRCLING ICON CHART VDP AT 2.10 NM TO RW02* *LNAV ONLY LTP HAE: 113.3 M
1200 MSL	ZOLGI (DF) (FO) (RNP 1.00)		4000	

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SW ZOLGI, RT, 052.94 INBOUND, 4000 FT. IN LIEU OF PT (IAF)
3. FAC: 016.72 FAF: CEBOD DIST FAF TO MAP: 5.02 THLD: 5.02
4. MIN. ALT: ZOLGI 4000, CEBOD 2100
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2100 GS ALT AT: CEBOD 2100 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 56.0 34:1 IS NOT CLEAR
8. MSA FROM: RW02 8900

MAG VAR: 16E 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	772	1	328	772	1	328	772	1	328	772	1	328			
LNAV/VNAV DA	913	1 1/2	469	913	1 1/2	469	913	1 1/2	469	913	1 1/2	469			
LNAV MDA	1160	1	716	1160	1	716	1160	2	716	1160	2	716			
CIRCLING	1160	1	716	1160	1	716	1160	2	716	1240	2 1/2	796			

NOTES:
 CHART NOTE: CIRCLING NA FOR CATS C AND D WEST OF RWY 2-20.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: VDP AND BARO-VNAV NA WHEN USING SEATTLE-TACOMA INTL ALTIMETER SETTING.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OLM VORTAC ON V187 SOUTHBOUND.
 (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT D 800-2 1/2



CITY AND STATE BREMERTON, WA	ELEVATION: 444 TDZE: 444 AIRPORT NAME: BREMERTON NATIONAL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 2A 2 MARCH 2017	SUP: AMDT: 2 DATED 02/04/2016
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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: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SEATTLE-TACOMA INTL ALTIMETER SETTING AND INCREASE LPV DA TO 817 AND ALL VISIBILITIES 1/4 SM; INCREASE ALL LNAV/VNAV DA TO 958 AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDA 60 FEET AND LNAV/CIRCLING CATS B, C AND D 1/2 SM.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).
CHART NOTE: RWY 2 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

QUALITY
10

CHECKED

CITY AND STATE BREMERTON, WA	ELEVATION: 444 TDZE: 444 AIRPORT NAME: BREMERTON NATIONAL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 2A 2 MARCH 2017	SUP:
				AMDT: 2
				DATED: 02/04/2016

**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	KPWT
RUNWAY	RW02
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W02A
LTP/FTP LATITUDE	472859.9770N
LTP/FTP LONGITUDE	1224616.9740W
LTP/FTP ELLIPSOIDAL HEIGHT	+01133
FPAP LATITUDE	473014.8495N
FPAP LONGITUDE	1224505.8415W
THRESHOLD CROSSING HEIGHT (TCH)	00056.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER DD4993DE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+01353
FPAP ORTHOMETRIC HEIGHT	+01353

QUALITY
10

CHECKED

CITY AND STATE BREMERTON, WA	ELEVATION: 444	TDZE: 444	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 2A 2 MARCH 2017	SUP:
	AIRPORT NAME: BREMERTON NATIONAL				AMDT: 2
					DATED: 02/04/2016

**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	
WREST	HOPES (TF) (FO) (RNP 2.00)	344.52 / 14.14	2600	LP: RW18 LNAV: RW18
HOPES (IF/IAF)	IFYAZ (TF) (FB) (RNP 1.00)	180.82 / 6.10	2600	
IFYAZ (FAF)	CAPUD/1.80 NM TO RW18 (TF) (FB) (RNP 0.30)	180.83 / 2.59		CLIMBING LEFT TURN TO 2600 DIRECT HOPES AND HOLD.
CAPUD/1.80 NM TO RW18	RW18 (MAP) (TF) (FO) (RNP 0.30)	180.83 / 1.80		
RW18 (MAP)	1224 MSL	180.83		
1224 MSL	HOPES (DF) (FO) (RNP 1.00)		2600	ADDITIONAL FLIGHT DATA: CHART FAS OBST: 946 TREE 433518N/0892916W CHART FAS OBST: 989 TREE 433544N/0892816W WAAS CHANNEL # 78040 REFERENCE PATH ID: W18A CHART CIRCLING ICON. IFYAZ TO RW18: 3.75/40. CHART BARABOO WISCONSIN DELLS AWOS-3 LTP HAE: 211.6 M

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD N HOPES, LT, 180.82 INBOUND, 2600 FT. IN LIEU OF PT (IAF)
- FAC: 180.83 FAF: IFYAZ DIST FAF TO MAP: 4.39 THLD: 4.39
- MIN. ALT: HOPES 2600, IFYAZ 2600, CAPUD/1.80 NM TO RW18 1560
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: GS ALT AT: OM: MM: IM:
- GS ANGLE: TCH: 34:1 IS NOT CLEAR
- MSA FROM: RW18 3300

MAG VAR: **3W** EPOCH YEAR: **2020**

MINIMUMS

TAKEOFF: <u> </u>	SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A <input checked="" type="checkbox"/>									
CATEGORY <u>=====</u> >	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	
LP MDA	1260	1	441	1260	1	441	1260	1 3/8	441		NA					
LNAV MDA	1300	1	481	1300	1	481	1300	1 3/8	481		NA					
CIRCLING	1420	1	596	1420	1	596	1640	2 1/2	816		NA					

NOTES:
 CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WREST ON V170 EASTBOUND AND V177 SOUTHBOUND.
 CHART NOTE: USE BARABOO ALTIMETER SETTING.



CITY AND STATE PORTAGE, WI	ELEVATION: 824 TDZE: 819 AIRPORT NAME: PORTAGE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMD T NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, ORIG 2 MARCH 2017	SUP: AMD T: NONE DATED
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**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	C47
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	433355.9070N
LTP/FTP LONGITUDE	0892900.0105W
LTP/FTP ELLIPSOIDAL HEIGHT	+02116
FPAP LATITUDE	433226.8580N
FPAP LONGITUDE	0892855.3705W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.75
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1624
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER 2B8AEC89

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02472
FPAP ORTHOMETRIC HEIGHT	+02472

QUALITY
22
CHECKED

CITY AND STATE PORTAGE, WI	ELEVATION: 824 TDZE: 819	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, ORIG 2 MARCH 2017	SUP:
	AIRPORT NAME: PORTAGE MUNI			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 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: _____
 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: _____

MAG VAR: _____ EPOCH YEAR: _____

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

CATEGORY >>>>>	DH/MDA	VIS	DH/MDA	VIS	DH/MDA	VIS	DH/MDA	VIS	DH/MDA	VIS

NOTES:

PROCEDURE CANCELED EFFECTIVE 2 MARCH 2017



CITY AND STATE PORTAGE, WI	ELEVATION: 824 TDZE: AIRPORT NAME: PORTAGE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS)-A, ORIG, 01/10/2013	SUP: AMDT: NONE DATED
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U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV OR GPS 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 2 MARCH 2017

CITY AND STATE PORTAGE, WI	ELEVATION: 825 TDZE: 818 AIRPORT NAME: PORTAGE MUNI	FACILITY IDENTIFIER: DLL	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RNAV OR GPS RWY 17, AMDT 4A, 11/15/2012	SUP AMDT DATE	4 05/20/1999
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