

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

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

<u>AIRPORT</u> LAURINBURG-MAXTON	<u>AIRPORT ID</u> KMEB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> MAXTON	<u>STATE</u> NC
<u>AIRPORT ELEVATION</u> 216	<u>TDZE</u> 215	<u>SUPERSEDED</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 12/11/2014	<u>MAG VAR</u> 8W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<u>REQUIRED EFFECTIVE DATE</u> 10/10/2019	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2005

**TERMINAL ROUTES** THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 19-19.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
LORRY	IAF	HUBUL		TF	FB	1.00	241.98	7.36	2000
HUBUL	IF	BAYPA		TF	FB	1.00	233.88	4.05	1700
BAYPA	FAF	GAVKE/1.63 NM TO RW23		TF	FB	0.30	233.85	2.95	
GAVKE/1.63 NM TO RW23		RW23	MAP	TF	FO	0.30	233.85	1.63	
RW23	MAP	476 MSL		CA			233.85		
476 MSL		SUPIE		DF	FO	1.00			2000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW23


**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2000 DIRECT SUPIE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT      SIDE OF COURSE      OUTBOUND      FT WITHIN      MILES OF (IAF)
2. PROFILE STARTS AT HUBUL
3. FAC: 233.85      FAF: BAYPA      DIST FAF TO MAP: 4.58      DIST FAF TO THLD: 4.58
4. MIN ALT:    HUBUL 2000, BAYPA 1700, GAVKE/1.63 NM TO RW23 760\*
5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      261 HAT: 0.74  GS ANT:      OM:      MM:      IM:
6. MIN GP INCPT: 1700      GP ALT AT FAF : BAYPA 1700
7. GP ANGLE: 3.00      34:1: IS NOT CLEAR      20:1: IS CLEAR      TCH: 38.4
8. MSA FROM: RW23 3200

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING TO RWY 13 AND 31 NA AT NIGHT.  
CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -11°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT LORRY ON V54-296 WESTBOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
CHART R-5311A  
CHART ARRIVAL HOLDING AT LORRY: HOLD E, LT, 260.00 INBOUND, 2400.  
CHART VDP AT 1.06 NM TO RW23\*  
\*LNAV ONLY  
WAAS CHANNEL #61023  
REFERENCE PATH ID: W23A  
CHART FAS OBST: 320 TREE 344821N/0792153W.  
HOLD SW, RT, 053.71 INBOUND  
LTP HAE: 28.9 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 1/2



CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	476	7/8	261	476	7/8	261	476	7/8	261	476	7/8	261			
LNAV/VNAV DA	481	7/8	266	481	7/8	266	481	7/8	266	481	7/8	266			
LNAV MDA	580	1	365	580	1	365	580	1	365	580	1	365			
CIRCLING	740	1	524	740	1	524	780	1 1/2	564	1020	2 1/2	804			

CHANGES - REASONS

1. CHANGED LOCATION OF GAVKE 596.92 FEET SOUTHWEST. - STEPDOWN FIX MOVED TO STABILIZE DESCENT WITH RA ADJUSTMENT.
2. CHANGED LOCATION OF BAYPA 25.25 FEET SOUTHWEST. - THRESHOLD DISPLACED 187 FEET.
3. UPDATED TERMINAL ROUTE: HUBUL TO BAYPA RNP FROM "0.50" TO "1.00" - IAW 8260.58A TABLE 1-2-1
4. UPDATED TERMINAL ROUTE: BAYPA TO GAVKE DISTANCE FROM "2.86" TO "2.95" - STEPDOWN FIX MOVED 596.92 FEET TO STABILIZE DESCENT WITH RA ADJUSTMENT.
5. UPDATED TERMINAL ROUTE: GAVKE TO RWY 23 COURSE/DISTANCE FROM "233.82/1.70" TO "233.85/1.63" - STEPDOWN FIX MOVED 596.92 FEET TO STABILIZE DESCENT WITH RA ADJUSTMENT.
6. UPDATED CA LEG: UPDATED COURSE FROM "233.82" TO "233.85" AND CHANGED ALTITUDE FROM "480" TO "476" - IAW 8260.58A 3-5-2B
7. UPDATED DF LEG TO INCLUDE RNP "1.00" - IAW 8260.58A TABLE 1-2-1
8. PROFILE LINE 3: CHANGED FAF TO MAP AND DIST FAF TO THLD FROM "4.56" TO "4.58" - THRESHOLD DISPLACED 187 FEET.
9. PROFILE LINE 4: CHANGED GAVKE FROM " GAVKE/1.70 NM TO RW23 780"" TO "GAVKE/1.63 NM TO RW23 760" - STEPDOWN FIX MOVED 596.92 FEET TO STABILIZE DESCENT WITH RA ADJUSTMENT.
10. PROFILE LINE 7: ADDED 20:1 IS CLEAR - IAW 8260.19H 8-6-7G (3)
11. PROFILE LINE 7: CHANGED TCH FROM "49.8" TO "38.4" - BASED ON THRESHOLD BEING DISPLACED 187 FEET, AND THE PAPI TCH BEING RECALCULATED.
12. REMOVED CHART NOTE "DME/DME RNP-0.3 NA" AND ADDED "RNP APCH" IN PBN EQUIPMENT REQUIREMENT NOTES - IAW 8260.19H 8-6-8B (1)
13. REMOVED CHART NOTE "VISIBILITY REDUCTION BY HELICOPTERS NA." AND ADDED "RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - IAW 8260.19H 8-6-11K (3)
14. UPDATED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C(5°F) OR ABOVE 42°C (107°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11°C OR ABOVE 54°C" - IAW 8260.19H 8-6-9S
15. MOVED AND UPDATED TO BACK OF -9 CHART NOTE "VDP AND BARO-VNAV NA WHEN USING LUMBERTON ALTIMETER SETTING." AND "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LUMBERTON ALTIMETER SETTING AND INCREASE LPV DA TO 532, LNAV/VNAV DA TO 537 AND ALL MDA 60 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/8 SM, LNAV CAT C/D AND CIRCLING CAT C/D VISIBILITY 1/4 SM". - PRIMARY ASOS ON WMSCR
16. ADDITIONAL FLIGHT DATA: CHANGED LTP HAE FROM "28 M" TO "28.9 M" - BASED ON UPDATED DATA
17. ADDITIONAL FLIGHT DATA: ADDED "CHART CIRCLING ICON" - NEW CIRCLING RADII HAS BEEN APPLIED.
18. ADDITIONAL FLIGHT DATA: CHANGED VDP FROM "1.04 NM" TO "1.06 NM" - TCH AND THRE CHANGED DUE TO DISPLACED THRESHOLD 187 FT.
19. ALTERNATE MINIMUMS: ADDED "CAT D 900-2 1/2" - IAW 8260.3.D TABLE 3-3-1
20. DECREASED LPV DA/HAT FOR ALL CATEGORIES FROM "494/281" TO "476/261" - NEW CONTROLLING OBSTACLE IN FINAL AND LOWER MISSED PENETRATION OBSTACLE.
21. DECREASED LNAV/VNAV DA/HAT FOR ALL CATEGORIES FROM "495/282" TO "481/266" - UPDATED PROCEDURE TO USE TDZE VS THLD ELEV. SAME FINAL CONTROLLING OBSTACLE EVALUATED.
22. DECREASED LNAV HAT FOR ALL CATEGORIES FROM "367" TO "365" - CHANGED TDZE FROM 213 TO 215 FROM NEW SURVEY.
23. DECREASED LNAV VISIBILITIES FOR CAT C/D FROM "1 1/8 SM" TO "1 SM" - IAW 8260.3D TABLE 3-3-1
24. INCREASED CIRCLING CMDA/HAA FOR ALL CATEGORIES: CAT A FROM "680/464" TO "740/524", CAT B/C FROM "680/464" CAT B TO "740/524", CAT C TO "780/564", CAT D FROM "780/564" TO "1020/804" - NEW CONTROLLING OBSTACLES BASED ON NEW CIRCLING AREA.
25. INCREASED CIRCLING CAT D VISIBILITY: CAT D FROM "2 SM" TO "2 1/2 SM" - IAW 8260.3D TABLE 3-3-7
26. CHANGED FAS DATA LTP FROM "344810.1355N/0792123.1880W" TO "344808.8445N/0792124.8000W." - THRESHOLD DISPLACED 187 FT.
27. CHANGED FAS DATA ELLIPSOIDAL HEIGHT FROM "00280" TO "00289." - VALUE DETERMINED FROM DISPLACED THLD LOCATION.
28. CHANGED FAS DATA FPAP FROM "344707.9200N/0792240.7500W" TO "344706.6336N/0792242.3699W." - RUNWAY THLD DISPLACED.
29. CHANGED FAS DATA TCH FROM "49.8" TO "38.4." - THRESHOLD DISPLACED 187 FEET.
30. CHANGED FAS DATA LENGTH OFFSET FROM "0768" TO "0824." - RUNWAY LENGTH SHORTENED, LENGTH OFFSET RECOMPUTED.
31. CRC REMAINDER CHANGED FROM "DB90F609" TO "36D58741." - DUE TO LTP, ELLIPSOIDAL HEIGHT AND FPAP, TCH AND LENGTH OFFSET FAS DATA CHANGES.

7/30/19: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 7/19/19.

1. 8260-3, LINE 5 - ADDED 261 HAT: 074

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: APT MGR, FAY APP CON, ZDC

FLIGHT CHECKED BY

AVN, CREWMEMBER 2

Digitally signed by

DONALD H LANIER

Aug 05, 2019

OFFICE

FIOG

DATE

07/29/2019

DEVELOPED BY

DONALD H. LANIER (CHRISTOPHER SCHONES) DONALD H LANIER

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Aug 05, 2019

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AJV-A431

DATE

06/07/2019

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GEORGE DAVIS

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DONALD H LANIER

Aug 05, 2019

OFFICE

AJV-A430

DATE

TITLE  
MANAGER



**FAS DATA BLOCK INFORMATION**

<b><u>DATA FIELD</u></b>	<b><u>DATA</u></b>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMEB
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	344808.8445N
LTP/FTP LONGITUDE	0792124.8000W
LTP/FTP ELLIPSOIDAL HEIGHT	+00289
FPAP LATITUDE	344706.6335N
FPAP LONGITUDE	0792242.3695W
THRESHOLD CROSSING HEIGHT (TCH)	00038.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0824
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	36D58741

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00615
FPAP ORTHOMETRIC HEIGHT	+00615

