

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> BARROW COUNTY	<u>AIRPORT ID</u> KWDR	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>CITY</u> WINDER	<u>STATE</u> GA
<u>AIRPORT ELEVATION</u> 934	<u>TDZE</u> 929	<u>SUPERSEDED</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 09/15/2016	<u>MAG VAR</u> 5W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 12 SEPTEMBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2010

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
WOMAC		PATTE		TF	FO	2.00	097.89	19.92	3700
AHN VOR/DME		PATTE		TF	FO	2.00	322.57	13.42	3000
IRMOS	IAF	PATTE	NOPT	TF	FB	1.00	211.46	7.05	3000
PATTE	IF/IAF	ZEKMI		TF	FB	1.00	230.82	6.22	2500
ZEKMI	FAF	RW23	MAP	TF	FO	0.30	230.77	4.78	
RW23	MAP	1179 MSL		CA			230.77		
1179 MSL		HAWCU		DF	FB	1.00			
HAWCU		BGRED		TF	FB	1.00	173.09	6.30	
BGRED		JOTNO		TF	FO	1.00	115.26	15.74	3000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW23

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT HAWCU AND ON TRACK 173.09 TO BGRED AND ON TRACK 115.26 TO JOTNO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD NE PATTE, LT, 230.82 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 230.77 FAF: ZEKMI DIST FAF TO MAP: 4.78 DIST FAF TO THLD: 4.78

4. MIN ALT: PATTE 3000, ZEKMI 2500

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.66 GS ANT:

6. MIN GP INCPT: 2500 GP ALT AT FAF : ZEKMI 2500 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS NOT CLEAR TCH: 40.0

8. MSA FROM: RW23 3700

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WOMAC ON V222 SOUTHWEST BOUND.
CHART NOTE: STRAIGHT-IN RWY 23 NA AT NIGHT, CIRCLING RWY 13, 23 NA AT NIGHT.
CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

WAAS CHANNEL #82516
REFERENCE PATH ID: W23A
CHART FAS OBST: 1021 TREE 335923N/0834021W.
HOLD NW, RT, 115.26 INBOUND
LTP HAE: 249.9 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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	1179	1	250	1179	1	250	1179	1	250	1179	1	250			
LNAV/VNAV DA	1274	1	345	1274	1	345	1274	1	345	1274	1	345			
LNAV MDA	1320	1	391	1320	1	391	1320	1 1/8	391	1320	1 1/8	391			
CIRCLING	1400	1	466	1500	1	566	1500	1 1/2	566	1500	2	566			



CHANGES - REASONS

1. REMOVED CHART NOTE "DME/DME RNP-0.3 NA" AND REPLACED WITH PBN NAVSPEC REQUIREMENT NOTE "RNP APCH" - PER 8260.19H PARA 8-6-8 B.(1).
2. ADDED NOTE "20:1 IS NOT CLEAR" TO LINE 7 - PER 8260.19H PARA 8-6-7 G.(3)
3. UPDATED CHART NOTE FROM "NIGHT LANDING: RWY 13, 23 NA" TO "STRAIGHT-IN RWY 23 NA AT NIGHT, CIRCLING RWY 13, 23 NA AT NIGHT" - PER 8260.19H PARA 8-6-11 O.(2)(C) AND (G).
4. REMOVED FAHRENHEIT DEGREES FROM UNCOMPENSATED BARO-VNAV NOTE - PER 8260.19H PARA8-6-9 S.
5. REMOVED CHART NOTE "BARO-VNAV NA WHEN USING ATHENS ALTIMETER SETTING" - KWDR IS ON WMSCR; NOTE NO LONGER REQUIRED PER 8260.19H PARA 8-6-9 F.(3).
6. RAISED LPV DA FROM 1178 TO 1179 ALL CATS - TDZE RAISED FROM 928 TO 929 PER NEW AIRPORT SURVEY.
7. CHANGED MISSED APPROACH CA LEG FROM 1178 TO 1179- NEW AIRPORT SURVEY DATA RAISED LPV DA FROM 1178 TO 1179.
8. RAISED LNAV/VNAV DA FROM 1273 TO 1274 ALL CATS - TDZE RAISED FROM 928 TO 929 PER NEW AIRPORT SURVEY.
9. INCREASED CIRCLING CAT A HAA FROM 457 TO 466, CAT C/D/E FROM 557 TO 566 - AIRPORT ELEVATION LOWERED FROM 943 TO 934 PER NEW AIRPORT SURVEY.
10. LOWERED LNAV HAT FROM 392 TO 391 ALL CATS - NEW SURVEY DATA RAISED TDZE FROM 928 TO 929.
11. UPDATED CHART NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - PER 8260.19H PARA 8-6-11 K. (3).
12. CHANGED DISTANCE TO THLD FROM 270 HAT FROM 0.69 TO 0.66 NM - NEW AIRPORT SURVEY DATA AND PER 8260.19H PARA 8-6-7 E. (3).
13. RAISED BARO-VNAV NA NOTE FROM ABOVE 46C TO ABOVE 54C - PER 8260.58A FORMULA 3-3-6.
14. LOWERED LNAV/VNAV CATS C/D VIS FROM 1 1/4 TO 1 - PER 8260.3D TABLE 3-3-1.
15. INCREASED LNAV CAT C FROM 1 TO 1 1/8 SM - PER 8260.3D TABLE 3-3-1.
16. LOWERED LNAV CAT D VISIBILITY FROM 1 1/4 TO 1 1/8 - PER 8260.3D TABLE 3-3-1.
17. REMOVED CHART NOTE "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ATHENS ALTIMETER SETTING AND INCREASE LPV DA ALL CATS TO 1237, LNAV/VNAV DA ALL CATS TO 1332, AND ALL MDA 60 FEET; INCREASE LPV ALL CATS, LNAV/VNAV ALL CATS, LNAV CATS C AND D, AND CIRCLING CAT C VISIBILITY 1/4 MILE - KWDR IS ON WMSCR; NOTE NO LONGER REQUIRED PER 8260.19H PARA 8-6-9 F.(3).
18. UPDATED CRC REMAINDER FROM 90100FBB TO 30BD9736 - NEW AIRPORT SURVEY DATA.
19. ADDED DISTANCE OF 6.30 NM TO MISSED APPROACH SEGMENT HAWCU-BGRED - PER 8260.19H PARA 8-2-3.
20. ADDED DISTANCE OF 15.74 NM TO MISSED APPROACH SEGMENT BGRED-JOTNO - PER 8260.19H PARA 8-2-3.

COORDINATED WITH:

A4A ☐ALPA ☒AOPA ☒APA ☐HAI ☐NBAA ☒OTHER: ZTL, ATL APP CON, ARPT MGR.

FLIGHT CHECKED BY

JOHN D JEFFRES

Digitally signed by

MARK D ADAMS

OFFICE

FICO

DATE

4/16/19

DEVELOPED BY

VICTOR BOONE

Digitally signed by

VICTOR C BOONE

Feb 07, 2019

Apr 18, 2019

OFFICE

AJV-5412

DATE

11/26/2018

APPROVED BY

LONNIE EVERHART

Digitally signed by

MARK D ADAMS

Mar 15, 2019

OFFICE

AJV-5410

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KWDR
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	335905.0010N
LTP/FTP LONGITUDE	0833952.4675W
LTP/FTP ELLIPSOIDAL HEIGHT	+02499
FPAP LATITUDE	335802.6925N
FPAP LONGITUDE	0834109.1830W
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	1648
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	30BD9736

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+02793
FPAP ORTHOMETRIC HEIGHT	+02793

