

**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 ID</u> 15J	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> ADEL	<u>STATE</u> GA		
<u>AIRPORT ELEVATION</u> 235	<u>TDZE</u> 235	<u>SUPERSEDED</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 07/18/2019	<u>MAG VAR</u> 4W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
WUMOM	IF/IAF	ZASIT		TF	FB	1.00	231.46	6.07	2000
ZASIT	FAF	JUXEL/2.92 NM TO RW23		TF	FB	0.30	231.37	2.45	
JUXEL/2.92 NM TO RW23		RW23	MAP	TF	FO	0.30	231.37	2.92	
RW23	MAP	595 MSL		CA			231.37		
595 MSL		ARGYL		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW23

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT ARGYL AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- 2. HOLD NE WUMOM, RT, 231.46 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 231.37 **FAF:** ZASIT **DIST FAF TO MAP:** 5.37 **DIST FAF TO THLD:** 5.37
- 4. **MIN ALT:** WUMOM 3000, ZASIT 2000, JUXEL/2.92 NM TO RW23 1220
- 5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:**
- 6. **MIN GP INCPT:** 2000 **GP ALT AT PFAF :** ZASIT 2000 **OM:** **MM:** **IM:**
- 7. **GP ANGLE:** 3.00 **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:** 55.0
- 8. **MSA FROM:** RW23 2500

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

- CHART NOTE: PROCEDURE NA AT NIGHT.
- CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
- CHART NOTE: BARO-VNAV NA.
- CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
- CHART NOTE: USE MOULTRIE MUNI ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

- CHART MOULTRIE AWOS-3 PT
- HOLD SW, RT, 051.28 INBOUND.
- CHART FAS OBST: 411 SIGN (13-122541) 310807N/0832613W.
- WAAS CHANNEL # 81833
- REFERENCE PATH ID: W23A
- LTP HAE: 44.2 M

MINIMUMS:

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

ALTERNATE: NA

CATEGORY:	A			B			C			D			E		
	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	595	1	360	595	1	360	595	1	360	595	1	360			
LNAV/VNAV DA	694	1 3/8	459	694	1 3/8	459	694	1 3/8	459	694	1 3/8	459			
LNAV MDA	700	1	465	700	1	465	700	1 3/8	465	700	1 3/8	465			



CHANGES - REASONS

1. FEEDER FROM WUBSU AND ASSOCIATED NOTE REMOVED - FPT REQUEST.
2. 20:1 IS NOT CLEAR ADDED - 20:1 PENETRATION FOUND.
3. ADDED NOTE PROCEDURE NA AT NIGHT - 20:1 PENETRATION FOUND.
4. MISSED APPROACH CHANGED FROM CLIMB TO 3000 DIRECT TIGEE AND ON TRACK 270.47 TO WUBSU AND HOLD TO CLIMB TO 3000 DIRECT ARGYL AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000 - FTP REQUEST.
5. ADDITIONAL FLIGHT DATA NOTE CHANGED FROM CHART FAS OBST: 366 TREE 310957N/0832430W, 339 TREE 310845N/0832539W. TO CHART FAS OBST: 411 SIGN (13-122541) 310807N/0832613W - NEW EVALUATION.
6. LPV DA/HAT CHANGED FROM 536/301 TO 595/360 - NEW EVALUATION.
7. LNAV/VNAV DA/HAT CHANGED FROM 689/454 TO 694/459, VISIBILITY CHANGED FROM 1 1/2 TO 1 3/8 - NEW EVALUATION.
8. LNAV MDA/HAT CHANGED FROM 740/505 TO 700/465 - NEW EVALUATION.
9. GP ANGLE/TCH CHANGED FROM 3.00/39.9 TO 3.00/55.0 - NECESSARY TO CLEAR VGS PENETRATION.
10. ADDED NOTE VGS AND RNAV GLIDEPATH NOT COINCIDENT (VGS ANGLE {ANGLE}/TCH {FEET}) - NEW GP ANGLE/TCH.
11. ALTIMETER CONTINGENCY NOTE REMOVED - PRIMARY AND SECONDARY SOURCES WMSCR.
12. ADDED "MAX 6000" IN LINE 2 - NEW FORMAT.
13. CHANGED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH-GPS - 8260.191 8-6-8.B.
14. CHANGED ALTIMETER NOTE FROM CHART NOTE: USE MOULTRIE ALTIMETER SETTING; WHEN NOT RECEIVED, USE VALDOSTA RGNL ALTIMETER SETTING AND INCREASE ALL DA 7 FEET AND ALL MDA 20 FEET, INCREASE LNAVNAV ALL CATS VISIBILITY TO 1 5/8 MILE, LNAV CATS C AND D VISIBILITY TO 1 1/2 MILE, CIRCLING CAT C VISIBILITY TO 2 1/4 AND CAT D TO 2 1/2 MILE TO USE MOULTRIE MUNI ALTIMETER SETTING - PRIMARY AND SECONDARY SOURCES WMSCR.
15. REMOVAL OF ASTERISK IN LINE 4 AND *LNAV ONLY NOTE - NO LONGER REQUIRED.
16. CRC CHANGED FROM A7CD627E TO 4CA7E092 - LTP/FTP LAT LONGS CHANGED FROM 310824.1285N/0832656.8240W, FPAP LAT/LONGS CHANGED FROM 310723.6205N/0832813.1710W TO 310723.5890N/0832813.1455W, ELLIPSOIDAL HEIGHT CHANGED FROM +00441 TO +00442, TCH CHANGED FROM 00039.9 TO 00055.0, LENGTH OFFSET CHANGED FROM 1232 TO 1072.
17. CHANGED LTP HAE IN ADDTL FLIGHT DATA FROM 44.1 M TO 44.2 M - ELLIPSOIDAL HEIGHT CHANGED FROM +00441 TO +00442.
18. COURSE DISTANCE FROM WUMOM TO ZASIT CHANGED FROM 231.44/6.02 TO 231.46/6.07 - NEW FAF LOCATION.
19. COURSE DISTANCE FROM ZASIT TO JUXEL CHANGED FROM 231.39/2.42 TO 231.37/2.45 - NEW FAF AND STEPDOWN LOCATION.
20. COURSE DISTANCE FROM JUXEL TO RW23 CHANGED FROM 231.39/3.00 TO 231.37/2.92 - NEW FAF AND STEPDOWN LOCATION.
21. INBOUND HOLDING COURSE FROM WUMOM CHANGED FROM 231.44 TO 231.46 - TO MATCH INTERMEDIATE COURSE.
22. LINE 5 CHANGED FAC FROM 231.39 TO 231.37 AND DIST FAF TO MAP/THLD FROM 5.42 TO 5.37 - NEW FAF LOCATION.
23. HOLD W, RT, 069.80 INBOUND CHANGED TO HOLD SW, RT, 051.28 INBOUND IN ADDITIONAL FLIGHT DATA - NEW CLEARANCE LIMIT.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZJX, VLD APP COM, AMGR

FLIGHT CHECKED BY

KEVIN RIESE

DAVID TEFFETELLER
Aug 28, 2023

OFFICE

FPO

DATE

08/24/2023

DEVELOPED BY

FRANK MOORE

Digitally signed by
FRANK MOORE

OFFICE

AJV-A433

DATE

02/27/2023

APPROVED BY

JOHNNIE BAKER

Digitally signed by
DAVID TEFFETELLER
Aug 28, 2023

OFFICE

AJV-A430

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	15J
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	310824.1245N
LTP/FTP LONGITUDE	0832656.8280W
LTP/FTP ELLIPSOIDAL HEIGHT	+00442
FPAP LATITUDE	310723.5890N
FPAP LONGITUDE	0832813.1455W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	4CA7E092

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00715
FPAP ORTHOMETRIC HEIGHT	+00715



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FINAL: LNAV/VNAV

FROM ZASIT **TO** RW23

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
5.37 DA 459

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
ELEVATOR (13-123177)	310850.26N/0832541.55W	365	20	3	1A		23.39:1			RA49	694

COMPUTATIONS

ALI **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

FINAL: LNAV

FROM ZASIT **TO** JUXEL/2.92 NM TO RW23

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
2.45

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	311051.00N/0832421.00W	470	164	98	4E	250				AC98 RA49 DG353	1220

COMPUTATIONS

ALI **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:



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MISSED APPROACH : LPV

FROM
DA **TO**
ARGYL

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
329

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (13-122781)	310845.42N/0832627.08W	331	20	3	1A		ASC				3000
TOWER (13-003749)	310035.02N/0833446.91W	517	50	20	2C	1000					1600
TERRAIN	310127.00N/0833233.00W	282 (300)								AS1500	1800

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM
DA **TO**
ARGYL

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
484

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (13-003749)	310035.02N/0833446.91W	517	50	20	2C	1000					1600
TERRAIN	310127.00N/0833233.00W	282 (300)								AS1500	1800

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:



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MISSED APPROACH : LNAV

FROM
RW23 **TO**
ARGYL

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
551

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (13-003749)	310035.02N/0833446.91W	517	50	20	2C	1000					1600
TERRAIN	310127.00N/0833233.00W	282 (300)								AS1500	1800

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

MSA

CENTER **RADIUS**
RW23 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (13-001222)	312552.00N/0834510.00W	322	23.4	1419	500	50	5D	1000			2500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NA, PER FPT/ATC REQUEST.

100' VEGETATION HEIGHT USED.



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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZJX ARTCC, VLD APP CON, MCN FSS

WX SERVICE

AWOS-3PT

LOCATION

KMGR

HRS OPERATION

24

ALTIMETER SOURCE

KMGR

DISTANCE

18.23

SERVICE-A

Y

ADJUSTMENTS

50

BACK-UP WX SERVICE

ASOS

LOCATION

KVLD

HRS OPERATION

24

ALTIMETER SOURCE

KVLD

DISTANCE

23.24

SERVICE-A

Y

ADJUSTMENTS

58

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
15J 235, KMGR 284, KVLD 203
RA = 48.9/57.8.

PRIMARY NAVAID

MONITOR POINT

HRS OPERATION

CAT

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW15	BSC-G	
RW33	BSC-G	
RW05 - MIRL (PCL), PAPI-2L (PCL)	NPI-G	
RW23 - MIRL (PCL), PAPI-2L (PCL)	NPI-G	

GLIDESLOPE ANGLE

3.00

ELEV RWY THRESHOLD

234.7

TCH

55.0

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE

3.00

TCH

39.7

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE

ON CENTERLINE

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LPV, LNAV/VNAV AND LNAV	
20:1		
251 VEHICLE ON ROADWAY (13-123103) 310828.26N/0832655.40W (7.58)	251 VEHICLE ON ROADWAY (13-123150) 310827.68N/0832654.34W (6.18)	
244 TREE (13-122582) 310825.53N/0832654.03W (5.55)	251 VEHICLE ON ROADWAY (13-123080) 310827.05N/0832653.15W (4.53)	
238 TREE (13-122592) 310825.97N/0832655.67W (3.28)	251 VEHICLE ON ROADWAY (13-122693) 310826.43N/0832652.00W (2.98)	
245 TREE (13-122962) 310826.69N/0832654.08W (2.74)	244 TREE (13-122698) 310826.35N/0832653.95W (2.48)	
242 TREE (13-122844) 310824.96N/0832653.07W (2.43)	242 TREE (13-123121) 310826.06N/0832654.19W (2.24)	
251 VEHICLE ON ROADWAY (13-122711) 310825.78N/0832650.80W (1.37)	246 TREE (13-123286) 310825.37N/0832651.88W (1.23)	
242 TREE (13-122904) 310826.93N/0832654.45W (0.1)		

Final Type	LPV, LNAV/VNAV AND LNAV	
34:1		
324 TREE (13-122453) 310845.23N/0832638.02W (17.32)	314 TREE (13-123294) 310843.91N/0832639.25W (12.29)	
332 TREE (13-122682) 310846.21N/0832629.16W (6.7)	312 TREE (13-123123) 310844.39N/0832637.37W (5.79)	
329 TREE (13-122854) 310845.16N/0832628.97W (5.46)	243 TREE (13-122503) 310825.99N/0832653.10W (3.42)	
331 TREE (13-122781) 310845.42N/0832627.08W (3.38)	242 TREE (13-123056) 310826.60N/0832653.40W (1.75)	
247 TREE (13-123026) 310829.05N/0832653.29W (1.61)	248 TREE (13-122504) 310827.58N/0832651.00W (1.27)	
246 SIGN (13-123074) 310826.15N/0832650.45W (1.12)	247 TREE (13-122752) 310826.36N/0832650.07W (0.98)	
323 TREE (13-122464) 310843.74N/0832628.14W (0.76)	247 TREE (13-122563) 310829.54N/0832653.33W (0.7)	
248 TREE (13-123168) 310828.00N/0832651.08W (0.57)	242 TREE (13-122451) 310828.46N/0832654.74W (0.52)	
244 VEGETATION (13-123129) 310829.23N/0832654.27W (0.09)	246 TREE (13-122444) 310826.53N/0832650.28W (0.03)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:



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PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - REMOTE ALTIMETER ADJUSTMENT IN USE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FOR CONTINGENCY PURPOSES: USE MOODY AFB ALTIMETER SETTING, WHEN NOT RECEIVED, USE VALDOSTA RGNL ALTIMETER SETTING AND INCREASE LPV DA TO 604 FEET. INCREASE LNAV/VNAV DA TO 703 FEET. INCREASE ALL MDAS 20 FEET.



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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.17
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	227.37
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	300
DISTANCE FROM	THLD	TO 1500FT POINT	4.97
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	227.37
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	300

**THRESHOLD
COORDINATES** 310824.12N/0832656.83W
(IF STR-IN)

ARP COORDINATES 310812.33N/0832715.20W

**RUNWAY APCH END
AND DIST FURTHEST
FROM ARP** RUNWAY 5 DISTANCE 0.58 NM

**FAF
COORDINATES** 311202.95N/0832220.59W

**FIX NAME
COORDINATES**

REMARKS



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PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
FRANK MOORE	AJV-A433	02/27/2023	AERONAUTICAL INFORMATION SPECIALIST

