

**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> WINCHESTER MUNI	<u>AIRPORT ID</u> KBGF	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 18	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>CITY</u> WINCHESTER	<u>STATE</u> TN	
<u>AIRPORT ELEVATION</u> 979	<u>TDZE</u> 978	<u>SUPERSEDED</u> RNAV (GPS) Z RWY 18	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 11/12/2015	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 21 MAY 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 095/30 CW 275/30	NOPT	095/15 CW 275/15		5000
2. 095/15 CW 275/15		ZEDUX	IAF	4000
3. 275/30 CW 005/30		COGTO	IAF	5000
4. 005/30 CW 095/30		JUKIN	IAF	5000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
JUKIN	IAF	ZEDUX	NOPT	TF	FB	1.00	094.64	6.00	4000
COGTO	IAF	ZEDUX	NOPT	TF	FB	1.00	274.78	6.00	4000
ZEDUX	IF	TECUG		TF	FB	1.00	184.71	7.03	2900
TECUG	PFAF	RW18	MAP	TF	FO	0.30	184.71	5.82	
RW18	MAP	1368 MSL		CA			184.71		
1368 MSL		YOKUS		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT YOKUS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- 2. HOLD N ZEDUX, RT, 184.71 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 10000.
- 3. **FAC:** 184.71 **FAF:** TECUG **DIST FAF TO MAP:** 5.82 **DIST FAF TO THLD:**
- 4. **MIN ALT:** ZEDUX 4000, TECUG 2900
- 5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **397 HAT:** 1.10 **GS ANT:**
- 6. **MIN GP INCPT:** 2900 **GP ALT AT FAF :** TECUG 2900 **OM:** **MM:** **IM:**
- 7. **GP ANGLE:** 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 45.0
- 8. **MSA FROM:**

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

WAAS CHANNEL #42708
 REFERENCE PATH ID: W18A
 HOLD S, RT, 004.70 INBOUND
 LTP HAE: 267.3 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT A/B/C/D 800-2 1/4 SM, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LPV DA	1375	1 1/2	397	1375	1 1/2	397	1375	1 1/2	397	1375	1 1/2	397			
LNAV/VNAV DA	1596	2 1/4	618	1596	2 1/4	618	1596	2 1/4	618	1596	2 1/4	618			



CHANGES - REASONS

1. INCORPORATED P-NOTAM 5/3336, AMDT ORIG-B.
2. DELETED NOTE: DME/DME RNP-0.3 NA AND REPLACED WITH PBN REQUIREMENTS NOTE: RNP APCH- IAW 8260.19H PARA 8-6-8 B(1).
3. BACKUP ALTIMETER NOTES UPDATED AND MOVED - PER THE FPT; PRIMARY WEATHER SOURCE ON WMSCR, BACKUP NOTES MOVED TO 8260-9 PART C FOR CONTINGENCY.
4. UPDATED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C (4°F) OR ABOVE 54°C (130°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C" - REMOVED FARENHEIT TEMPERATURES IAW 8260.19H PARA 8-6-9S.
5. UPDATED CHART NOTE FROM "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - IAW FAAO 8260.19H.
6. REMOVED CHART FAS OBST: 1100 TREE 351151N/0860400W FROM ADDITIONAL FLIGHT DATA - FAS OBSTACLE ONLY FOR NON-PRECISION CONTROLLER, 8260.19H 8-6-10.C.
7. CHANGED TDZE FROM "971" TO "978" - UPDATED AIRPORT DATA.
8. AMENDED LPV DA FROM "1368" TO "1375" - COMPUTED USING UPDATED TDZE.
9. AMENDED LNAV/VNAV DA FROM "1589" TO "1596" - COMPUTED USING UPDATED TDZE.
10. ADDED 5.82 TO DIST FAF TO MAP ON LINE 3 OF PROFILE - IAW 8260.19H, 8-6-7C(3).
11. UPDATED CHART NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" TO "RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - IAW 8260.19H 8-6-11 K. (3).
12. UPDATED ALTERNATE MINIMUMS FROM "NA" TO "STANDARD - CAT A/B/C/D 800-2 1/4 SM, NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.3D, 3-4-1.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZME, AMGR.

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE

DATE

Digitally signed by

DEVELOPED BY

DONALD H. LANIER (ROSALYN REOLA)

Digitally signed by
DONALD H LANIER

DONALD H LANIER

Apr 09, 2020

OFFICE

AJV-A431

DATE

01/07/2020

APPROVED BY

GEORGE DAVIS

Digitally signed by

DONALD H LANIER

Apr 09, 2020

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	KBGF
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	351103.8460N
LTP/FTP LONGITUDE	0860357.2990W
LTP/FTP ELLIPSOIDAL HEIGHT	+02673
FPAP LATITUDE	350934.6500N
FPAP LONGITUDE	0860400.5400W
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	C5E4D1D3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+02961
FPAP ORTHOMETRIC HEIGHT	+02961

