

**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> WACO RGNL	<u>AIRPORT ID</u> KACT	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> WACO	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 516	<u>TDZE</u> 513	<u>SUPERSEDED</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 04/02/2015	<u>MAG VAR</u> 7E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 JANUARY 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1985

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>
DRILL		ETOH		TF	FB	1.00	259.43	23.65	3000
SONET		UFIFO		TF	FB	1.00	054.52	7.26	3000
ETOH	IAF	EVVIS		TF	FB	1.00	203.04	8.00	3000
UFIFO	IAF	EVVIS		TF	FB	1.00	088.64	7.35	3000
EVVIS	IF	IAGER		TF	FB	1.00	142.19	5.00	2100
IAGER	FAF	RW14	MAP	TF	FO	0.30	142.21	4.82	
RW14	MAP	1000 MSL		CA			142.21		1000
1000 MSL		BOSEL		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 4000 DIRECT BOSEL AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
22
CHECKED

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. PROFILE STARTS AT EVVIS

3. FAC: 142.21 FAF: IAGER DIST FAF TO MAP: 4.82 DIST FAF TO THLD: 4.82

4. MIN ALT: EVVIS 3000, IAGER 2100

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.63 GS ANT:

6. MIN GP INCPT: 2100 GP ALT AT FAF : IAGER 2100 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 55.0

8. MSA FROM: RW14 3600

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -8°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRILL ON V15-54 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SONET ON V358 WESTBOUND.

ADDITIONAL FLIGHT DATA:

CHART: ASR
CHART CIRCLING ICON.
CHART VDP AT 1.42 NM TO RW14*
*LNAV ONLY
WAAS CHANNEL #56520
REFERENCE PATH ID: W14A
FAS OBST: 760 AAO 313946N/0971703W.
780 AAO 314045N/0971824W.
HOLD S, RT, 344.00 INBOUND
LTP HAE: 127.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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	HAT/HAA
LPV DA	763	3/4	250	763	3/4	250	763	3/4	250	763	3/4	250			
LNAV/VNAV DA	763	3/4	250	763	3/4	250	763	3/4	250	763	3/4	250			
LNAV MDA	1020	1	507	1020	1	507	1020	1 3/8	507	1020	1 3/8	507			
CIRCLING	1020	1	504	1020	1	504	1020	1 1/2	504	1160	2	644			

QUALITY
22
CHECKED

CHANGES - REASONS

1. REMOVED INITIAL SEGMENT FROM IGORR (IAF) TO EVVIS (IF) - PER FPT REQUEST DUE TO JEN VOR MON.
2. MOVED BACKUP ALTIMETER TO BACK OF 8260-9 AND UPDATED IT FROM: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE MC GREGOR EXECUTIVE ALTIMETER SETTING AND INCREASE ALL DA 31 FEET AND ALL MDA 40 FEET; INCREASE LPV AND LNAV/VNA ALL CAT VISIBILITY 1/8 MILE AND LNAV CATS C/D AND CIRCLING CAT D VISIBILITY 1/4 MILE TO: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MCGREGOR EXECUTIVE ALTIMETER SETTING: INCREASE LPV AND LNAV/VNAV DA TO 794 FEET; INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/8 SM; INCREASE ALL MDAS 40 FEET AND LNAV CATS C/D VISIBILITY 1/4 SM AND CIRCLING CAT C 1/8 SM AND CAT D 1/4 SM - ASOS BROADCAST TO WMSCR.
3. UPDATED ADDITIONAL FLIGHT DATA VDP DISTANCE TO RW14* FROM 1.43 NM TO 1.42 NM - UPDATED DATA.
4. LOWERED LNAV/VNAV DA/HAT FROM DA 924/HAT 411 ALL CATS TO DA 763/HAT 250 ALL CATS - UPDATED DATA AND ASC AFTER FPT LOWERED TREE HEIGHTS FROM 80 FT TO 55 FT.
5. DELETED NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - REFERENCE REVISED CRITERIA.
6. UPDATED LNAV/VNAV FINAL BARO-VNAV TEMPERATURE DATA FROM ACT FROM -30C TO -8C - 5-YEAR TEMPERATURE HISTORY USED.
7. ADDED 20:1 IS CLEAR TO LINE #7 OF THE 8260-3 - REFERENCE 8260.19H CRITERIA NO 20:1 VISUAL SURFACE PENETRATIONS.
8. UPDATED BARO-VNAV NOTE FROM: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 40C (104F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -8C OR ABOVE 54C - UPDATED TEMPERATURE DATA AND FAHRENHEIT NO LONGER REQUIRED.
9. UPDATED FAS DATA BLOCK INFORMATION AS FOLLOWS: UPDATED LTP/FTP/FEP LATITUDE/LONGITUDE FROM 313701.5000N-0971420.0600W TO 313701.5365N-0971420.0615W; FPAP LOCATION FROM: 313544.7700N-0971326.7100W TO 313544.8055N-0971326.7010W AND CRC REMAINDER CHANGED FROM 235370E1 TO 4C71843D - NEW AND OR UPDATED DATA BASE.
10. REMOVED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IGORR ON V17 NORTHWEST BOUND - INITIAL SEGMENT FROM IGORR (IAF) TO EVVIS (IF) REMOVED PER FPT REQUEST.
11. UPDATED CHART NOTE FROM: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA TO RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - PER .19H CRITERIA REQUIREMENT.
12. UPDATED MISSED APPROACH FROM CLIMB TO 4000 DIRECT BOSEL AND HOLD TO: CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 4000 DIRECT BOSEL AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000 - TARGET EVALUATED THAT A CLIMB-IN-HOLD WAS REQUIRED; PER MEMO 275 ATTACHMENT 7, SINCE THE TURN EXCEEDS 15 DEGREES, MISSED APPROACH INSTRUCTIONS MUST INCLUDE A TURN DIRECTION.
13. UPDATED MISSED APPROACH CA ALTITUDE FROM 763 TO 1000 - HIGHEST LPV MISSED APPROACH SECTION TWO START ALTITUDE (ROUNDED).
14. ADDED NON-COINCIDENT NOTE - VGS1 AND RNAV GLIDEPATH NO LONGER COINCIDENT - VGS1 3.00/58.4; PROCEDURE 3.00/55.0 - NOTE REQUIRED.
15. LNAV/VNAV DA/HAT CHANGED FROM 924/411 TO 763/250 - NEW OBSTACLE EVALUATION.
16. LNAV/VNAV VISIBILITY CHANGED FROM 1 3/8 TO 3/4 - DUE TO LOWER DA/HAT AND IAW 8260.3D VISIBILITY TABLE.
17. REMOVED "CHART FAS OBST: 536 TREE 313709N/0971429W" AND "CHART FAS OBST: 619 TREE 313736N/0971524W" - NEW FINAL OBSTACLE IS AN AAO - NOT CHARTED.
18. ADDED "FAS OBST: 760 AAO 313946N/0971703W, 780 AAO 314045N/0971824W"; REMOVED FAS OBST 769 AAO 313946S/0971703W - COORDINATES INCORRECT - "S" INSTEAD OF "N"; NEW OBSTACLE.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZFW, ACT ATCT, APT MGR, ACT APP CON

FLIGHT CHECKED BY

BRIAN HARRELSON

Digitally signed by
WARDELL HENNING
Nov 19, 2019

OFFICE
FICO

DATE
11/15/19

DEVELOPED BY
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Nov 19, 2019

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	KACT
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	313701.5365N
LTP/FTP LONGITUDE	0971420.0615W
LTP/FTP ELLIPSOIDAL HEIGHT	+01277
FPAP LATITUDE	313544.8055N
FPAP LONGITUDE	0971326.7010W
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	1192
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	4C71843D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+01550
FPAP ORTHOMETRIC HEIGHT	+01550

