

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> MID VALLEY	<u>AIRPORT ID</u> KTXW	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> ORIG A	<u>CITY</u> WESLACO	<u>STATE</u> TX	
<u>AIRPORT ELEVATION</u> 70	<u>TDZE</u> 69	<u>SUPERSEDED</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 03/02/2017	<u>MAG VAR</u> 4E	<u>EPOCH YEAR</u> 2020
<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

<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>
HARGI	IAF	WODEE	NOPT	TF	FB	1.00	208.74	10.40	2100
FATOR	IAF	WODEE	NOPT	TF	FB	1.00	088.29	15.20	2100
WODEE	IF/IAF	ECETE		TF	FB	1.00	137.52	6.00	1400
ECETE	FAF	ZADUV/1.70 NM TO RW14		TF	FB	0.30	137.55	2.32	
ZADUV/1.70 NM TO RW14		RW14	MAP	TF	FO	0.30	137.55	1.70	
RW14	MAP	900 MSL		CA			137.55		900
900 MSL		WODEE		DF	FO	1.00			2100

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 900 THEN CLIMBING RIGHT TURN TO 2100 DIRECT WODEE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)											
2.	HOLD NW WODEE, RT, 137.52 INBOUND, 2100 FT. IN LIEU OF PT (IAF), MAX 6000.														
3. FAC:	137.55	FAF: ECETE	DIST FAF TO MAP: 4.02	DIST FAF TO THLD: 4.02											
4. MIN ALT:	WODEE 2100, ECETE 1400, ZADUV/1.70 NM TO RW14 660*														
5. DIST TO THLD FROM OM:		MM:	IM:	150 HAT:	250 HAT: 0.63										
6. MIN GP INCPT:	1400	GP ALT AT FAF : ECETE 1400			OM:		MM:		IM:						
7. GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH: 50.0									
8. MSA FROM:	RW14 2600														

PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MC ALLEN ALTIMETER SETTING.
CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HARGI ON V20 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FATOR ON V17 NORTHWEST BOUND.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MC ALLEN ALTIMETER SETTING AND INCREASE LPV DA TO 358, LNAV/VNAV DA TO 370, AND ALL MDA 40 FEET; INCREASE LPV ALL CATS VISIBILITY 1/8 SM AND CIRCLING CAT D VISIBILITY 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
DISTANCE TO THLD FROM 250 HAT: 0.63 NM.
CHART VDP AT 0.88 NM TO RW14*
*LNAV ONLY
WAAS CHANNEL #70341
REFERENCE PATH ID: W14A
CHART FAS OBST: 144 TREE 261103N/0975932W.
CHART: 574 TOWER 261441N/0980015W.
157 POLE 261206N/0980031W.
LTP HAE: -2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4, 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	319	3/4	250	319	3/4	250	319	3/4	250	319	3/4	250			
LNAV/VNAV DA	331	7/8	262	331	7/8	262	331	7/8	262	331	7/8	262			
LNAV MDA	400	1	331	400	1	331	400	1	331	400	1	331			
CIRCLING	620	1	550	620	1	550	700	1 3/4	630	940	2 3/4	870			

QUALITY
10
CHECKED

CHANGES - REASONS

1. CHANGED AIRPORT IDENTIFIER FROM KT65 TO KTXW- CHANGED PER PTS PROJECT/ 28 DAY REVIEW TO UDATE PROCEDURE.
2. CHANGED CRC REMAINDER FROM 94DC4DE0 TO 892ABA50 - UPDATED CRC REMAINDER DUE TO AIRPORT IDENTIFIER CHANGE.
3. DELETED DME/DME RNP-0.3 NA NOTE - IAW 8260.19H PBN/EQUIPMENT REQUIREMENTS NOTES.
4. ADDED PBN REQUIREMENTS NOTE: RNP APCH- IAW 8260.19H PBN/EQUIPMENT REQUIREMENTS NOTES.



AIRPORT
MID VALLEY

AIRPORT ID
KTXW

PROCEDURE NAME
RNAV (GPS) RWY 14

ORIGINAL/AMENDMENT
ORIG A

CITY
WESLACO

STATE
TX

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZHU, ARPT MGR, VALLEY APP CON, MFE ATCT, ATA

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

VICTOR B. NASO (STEVEN SCHUTRUM)

OFFICE

AJV-5410

DATE

09/06/2017

APPROVED BY

GEORGE DAVIS

OFFICE

AJV-5410

DATE

TITLE

MANAGER

QUALITY
10
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTXW
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	261106.6340N
LTP/FTP LONGITUDE	975846.8970W
LTP/FTP ELLIPSOIDAL HEIGHT	-00023
FPAP LATITUDE	260956.6250N
FPAP LONGITUDE	975745.3440W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	892ABA50
<u>ADDITIONAL PATH POINT RECORD INFORMATION</u>	
ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00212
FPAP ORTHOMETRIC HEIGHT	+00212



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
MID VALLEY	KTXW	RNAV (GPS) RWY 14	ORIG A	WESLACO	TX	70	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM HARGI TO WODEE

RNP 10.40 DISTANCE PAT MAP HAT HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (48-003747)	261819.00N/0980741.00W	463	500	50	5D	1000				AT637	2100
2.TERRAIN	261803.00N/0980739.00W	92 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT
REMARKS:

INITIAL

FROM FATOR TO WODEE

RNP 15.20 DISTANCE PAT MAP HAT HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TOWER (48-014510)	262026.25N/0981358.37W	616	50	20	2C	1000				AT484	2100
4.TERRAIN	261848.00N/0982321.00W	233 (200)								AS1500	1700

COMPUTATIONS

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

SEGMENT
REMARKS:



FINAL: LNAV/VNAV

FROM

ECETE

TO

RW14

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.02		DA	262								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC			MA12	331

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

FINAL: LNAV

FROM

ECETE

TO

ZADUV/1.70 NM TO RW14

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	2.32											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	261406.00N/0980030.00W		269	100	125	3E	250				RA39 AC60 DG42	660

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



FINAL: LNAV STEPDOWN

FROM

ZADUV/1.70 NM TO RW14

TO

RW14

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	1.70		RW14	331								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TREE (KT65T003645)	261102.92N/0975931.80W		144	20	3	1A	250					400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

HOLD-IN-LIEU OF PT

FROM

WODEE

TO

P-5

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
		P-5										
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TOWER (48-014510)	262026.25N/0981358.37W		616	50	20	2C	1000				AT484	2100
9.TERRAIN	363457.00N/0981509.00W		151 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



MISSED APPROACH : LNAV

FROM

RW14

TO

WODEE

RNP	DISTANCE	PAT	MAP	HAT				HMAS				
		1	RW14					300				
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.SIGN (KT65T003610)	261031.81N/0975926.65W		161	20	10	1B		ASC			AC10	2100
11.TOWER (48-008131)	260519.00N/0980345.00W		1048	20	3	1A	1000					2100
12.TERRAIN	261039.00N/0980654.00W		105 (100)								AS1500	1600

COMPUTATIONS

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

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
13.TOWER (48-006148)	260923.00N/0975901.00W	1.30	550	268	250	50	4D	300		AC50/AC50	620
CATEGORY B											
13.TOWER (48-006148)	260923.00N/0975901.00W	1.81	550	268	250	50	4D	300		AC50/AC50	620
CATEGORY C											
14.TOWER (48-001735)	260811.00N/0975731.00W	2.84	630	338	500	50	5D	300		AC50/AC50	700
CATEGORY D											
15.TOWER (48-013149)	260742.00N/0980045.00W	3.71	870	582	500	50	5D	300		AC50/AC50	940

CIRCLING REMARKS:



MSA

<u>CENTER</u>	<u>RADIUS</u>
RW14	25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	TWR (48-004005)	260602.00N/0975021.00W	120	09.1	1547	20	3	1A	1000			2600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

VEGETATION UTILIZES 100 FT PLUS TERRAIN.

TAA NOT DEVELOPED PER FPT REQUEST.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZHU ARTCC, VALLEY APP CON, SJT FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3	KTXW	0/YES	KTXW	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS-3	KMFE	24/YES	KMFE	14.26	Y	38

WX REMARKS:

RASS (PRESSURE PATTERNS THE SAME)
KTXW 70.0, KMFE 107.3 MSL
RA=38.07

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW14 - MIRL (PCL)		NPI-F	
RW32 - MIRL (PCL), REIL, PAPI-4L		NPI-F	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	69.4	50.0				
<u>FINAL APPROACH COURSE AIMING</u>						
RUNWAY THRESHOLD		X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE		



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
MID VALLEY	KTXW	RNAV (GPS) RWY 14	ORIG A	WESLACO	TX	70	RNAV

ON CENTERLINE

X

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

-15C

CRITICAL HIGH

+54C

ACT

-15C

APT ISA

+14.86C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM ISA30.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 955 HIGH TEMP 1115.

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LPV, LNAV/VNAV, LNAV
34:1	
91 TREE (KT65T001846) 261110.69N/0975854.13W (6.00)	87 RD (N) (KT65T001832) 261113.42N/0975849.44W (3.46)
88 RD (N) (KT65T001847) 261112.83N/0975851.30W (2.74)	87 RD (N) (KT65T001851) 261112.62N/0975851.94W (1.16)
88 RD (N) (KT65T001861) 261114.53N/0975850.00W (0.95)	87 RD (N) (KT65T001854) 261112.55N/0975852.17W (0.94)

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
VGSI MOVED WITH CONSTRUCTION, PROPOSED DATA OBTAINED BY FPT FROM TXDOT DATA SHEET.
ORDER 8260.3 CHAPTER 2 APPLIED TO 574 TOWER 261441N/0980015W.
ORDER 8260.3 CHAPTER 2 APPLIED TO 157 POLE 261206N/0980031W.
NO ADDITIONAL AIRSPACE REQUIRED.

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
VICTOR B. NASO (STEVEN SCHUTRUM)	AJV-5410	09/06/2017	AERONAUTICAL INFORMATION SPECIALIST

