

**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> KELP	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 22	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> EL PASO	<u>STATE</u> TX		
<u>AIRPORT ELEVATION</u> 3962	<u>TDZE</u> 3950	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 22	<u>ORIGINAL/AMENDMENT</u> ORIG-F	<u>DATED</u> 11/05/2020	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 29 DECEMBER 2022	<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>
WHOLE	IAF	PIERS		TF	FB	1.00	263.22	11.07	8800
PIERS		PRISO		TF	FB	1.00	263.06	5.67	6800
PRISO	IF	FISPI		TF	FB	1.00	222.11	5.07	5900
FISPI		KRUMM		TF	FB	1.00	222.07	3.39	5100
KRUMM	FAF	RW22	MAP	TF	FO	0.30	222.03	3.44	
RW22	MAP	4600 MSL		CA			222.03		
4600 MSL		GIFEN		DF	FO	1.00			8000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW22

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4600 THEN CLIMBING LEFT TURN TO 8000 DIRECT GIFEN AND HOLD, CONTINUE CLIMB-IN-HOLD TO 8000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
16
CHECKED

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT PRISO					
3. FAF:	222.03	FAF: KRUMM	DIST FAF TO MAP: 3.44	DIST FAF TO THLD: 3.44	
4. MIN ALT:	PRISO 6800, FISPI 5900, KRUMM 5100				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.46	GS ANT:
6. MIN GP INCPT:	5100	GP ALT AT PFAF :	KRUMM 5100	OM:	MM:
7. GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR
			TCH:	54.5	
8. MSA FROM:	RW22 8900				

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA FOR CAT D N OF RWY 26R AND NW OF RWY 4.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -5°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WHOLE ON V560 EASTBOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV/VNAV CATS A/B/C VISIBILITY TO RVR 4000, CAT D VISIBILITY TO RVR 4500 AND LNAV CAT C/D VISIBILITY TO RVR 5500.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WHOLE ON V280 NORTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

CHART KBIF IN PLAN AND PROFILE VIEWS.
CHART R-5103A.
HOLD E, LT, 261.48 INBOUND.
CHART FAS OBST: 4038 POLE (48-137764) 315114N/1062000W.
CHART 4084 TRANSMISSION_LINE 315133N/1061853W.
CHART VDP AT 0.88 NM TO RW22.
WAAS CHANNEL # 78244
REFERENCE PATH ID: W22A
CHART CIRCLING ICON.
LTP HAE: 1179.7 M



MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4

<u>CATEGORY:</u>	A			B			C			D			E		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	4150	2400	200	4150	2400	200	4150	2400	200	4150	2400	200			
LNAV/VNAV DA	4200	2400	250	4200	2400	250	4200	2400	250	4221	2400	271			
LNAV MDA	4300	2400	350	4300	2400	350	4300	3000	350	4300	3000	350			
CIRCLING	4420	1	458	4440	1	478	4480	1 1/2	518	4680	2 1/4	718			



CHANGES - REASONS

1. TERMINAL ROUTE WHOLE TO PIERS WAS CONVERTED FROM A FEEDER ROUTE TO AN IAF ROUTE. - FPT REQUEST.
2. TERMINAL ROUTE FROM PIERS TO PRISO ALTITUDE CHANGED FROM 6600 TO 6800. - FPT REQUEST.
3. TERMINAL ROUTE FISPI TO VALTR LOM CHANGED TO FISPI TO KRUMM WITH COURSE/DISTANCE CHANGE FROM 222.11/3.43 TO 222.07/3.39. - VALTR LOM IS BEING DECOMMISSIONED.
4. TERMINAL ROUTE VALTR LOM TO RW22 IS REPLACED WITH KRUMM TO RW22 WITH COURSE/DISTANCE 222.03/3.41 TO 222.03/3.44. - NEW FAF.
5. TERMINAL CA ROUTE COURSE CHANGED FROM 222.04 TO 222.03. - NEW FINAL COURSE.
6. TERMINAL ROUTE 4600 TO PUDRE IS REPLACED WITH 4600 TO GIFEN. - NEW MISSED APPROACH.
7. TERMINAL ROUTE PUDRE TO ELP VORTAC WAS REMOVED. - NEW MISSED APPROACH.
8. MISSED APPROACH LPV DA ADDED TO MAP. - NEW LINE OF LPV MINIMA.
9. MISSED APPROACH INSTRUCTIONS CHANGED FORM CLIMB TO 4600 THEN CLIMBING LEFT TURN TO 6900 ON TRACK 073.74 TO ELP VORTAC AND HOLD TO CLIMB TO 4600 THEN CLIMBING LEFT TURN TO 8000 DIRECT GIFEN AND HOLD, CONTINUE CLIMB-IN-HOLD TO 8000. - NEW MISSED APPROACH ATC REQUEST.
10. PROFILE LINE THREE CHANGED FROM FAC 222.04, FAF: VALTR LOM, DIST FAF TO MAP: 3.41, DIST FAF TO THLD: 3.41 TO FAC 222.03, FAF: KRUMM, DIST FAF TO MAP: 3.44, DIST FAF TO THLD: 3.44. - NEW FAF.
11. PROFILE LINE FOUR MIN ALT PRISO 6600 CHANGED TO 6800. - FPT REQUEST.
12. PROFILE LINE FIVE 324 HAT: 0.85 CHANGED TO 200 HAT: 0.46. NEW LPV LINE OF MINIMA.
13. PROFILE LINE SIX GP ALT AT FAF: GP INCPT 5100 CHANGED TO GP AL AT PFAF: KRUMM 5100. - 8260.19I COMPLIANCE. ADDED GS ALT AT PFAF: KRUMM 5100 AND REMOVED GS ALT AT OM: 5100.
14. PROFILE LINE SEVEN TCH CHANGED FROM 54 TO 54.5. - NEW PFAF LOCATION.
15. PBN EQUIPMENT REQUIREMENTS NOTE CHANGED FROM RNP APCH TO RNP APCH-GPS. - 8260.19I COMPLIANCE
16. CHART NOTE CHANGED FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -9°C OR ABOVE 54°C. TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -5°C OR ABOVE 54°C. - 8260.19I COMPLIANCE.
17. UPDATED CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV/VNAV CAT D VISIBILITY TO RVR 5000 AND LNAV CAT C/D VISIBILITY TO RVR 5500. TO CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV/VNAV CATS A/B/C VISIBILITY TO RVR 4000, CAT D VISIBILITY TO RVR 4500 AND LNAV CAT C/D VISIBILITY TO RVR 5500.
18. ADDED CHART PLANVIEW NOTE PROCEDURE NA FOR ARRIVALS AT WHOLE ON V560 EASTBOUND . - 8260.19I COMPLIANCE.
19. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WHOLE ON V280 NORTHEAST BOUND. - 8260.19I COMPLIANCE.
20. ADDITIONAL FLIGHT DATA FAS OBST CHANGED FROM 4035 KBIF0027 (TWR#1) 315028N/1062141W. TO 4038 POLE (48-137764) 315114N/1062000W. - NEW EVAL.
21. ADDITIONAL FLIGHT DATA REMOVED ASTERISK FROM CHART VDP AT 0.88 NM TO RW22. - 8260.19I COMPLIANCE.
22. ADDITIONAL FLIGHT DATA ADDED 7:1 OBSTACLE 4084 TRANSMISSION_LINE 315133N/1061853W. - NEW EVALUATION.
23. ADDITIONAL FLIGHT DATA REMOVED DISTANCE TO THLD FROM 324 HAT: 0.85 NM. - 8260.19I COMPLIANCE.
24. ADDITIONAL FLIGHT DATA REMOVED * LOC ONLY. - 8260.19I COMPLIANCE.
25. ADDITIONAL FLIGHT DATA ADDED CHART R-5103A - INITIAL LEG OF APPROACH IS NEAR RESTRICTED AREA.
26. ADDITIONAL FLIGHT DATA ADDED LTP HAE 1179.7M. - LPV LINE OF MINIMA ADDED.
27. FAS DATA ADDED. - LPV LINE OF MINIMA ADDED.
28. MINIMUMS ADDED LPV LINE. - FPT REQUEST.
29. MINIMUMS LNAV/VNAV CATS A/B/C CHANGED FROM DA/VIS/HAT 4274/2600/324 TO 4200/2400/250. - NEW EVAL.
30. MINIMUMS LNAV/VNAV CAT D CHANGED FROM DA/VIS/HAT 4274/2600/324 TO 4221/2400/271. - NEW EVAL.
31. MINIMUMS CIRCLING CAT C MDA/VIS/HAA CHANGED FROM 4460/498 TO 4480/518. - NEW OBSTACLE.
32. REMOVED CHART ASR FROM ADDITIONAL DATA. - 8260.19I COMPLIANCE.
33. CRC REMAINDER CHANGED FROM "53DE5350" TO "7F269A35" - ADDED REFERENCE PATH IDENTIFIER.



AIRPORT ID
KELP

PROCEDURE NAME
RNAV (GPS) Y RWY 22

ORIGINAL/AMENDMENT
1

CITY
EL PASO

STATE
TX

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZB, ELP ATCT, ARPT MNGR, ELP APP CON.

FLIGHT CHECKED BY

GARY BELL

Digitally signed by
CASIMIR L TABAKA

Sep 28, 2022

Digitally signed by
CASIMIR L TABAKA
Jul 25, 2022

OFFICE

FPO

DATE

09/26/2022

DEVELOPED BY

JOHN KEEFER

OFFICE

AJV-A432

DATE

05/03/2022

APPROVED BY

CASIMIR TABAKA

Digitally signed by
CASIMIR L TABAKA

Jul 25, 2022

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	KELP
RUNWAY	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	314922.0110N
LTP/FTP LONGITUDE	1062212.7820W
LTP/FTP ELLIPSOIDAL HEIGHT	+11797
FPAP LATITUDE	314805.5460N
FPAP LONGITUDE	1062359.4820W
THRESHOLD CROSSING HEIGHT (TCH)	00054.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	7F269A35

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+12038
FPAP ORTHOMETRIC HEIGHT	+12038

