

**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> KPHX	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 25L	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> PHOENIX	<u>STATE</u> AZ		
<u>AIRPORT ELEVATION</u> 1135	<u>TDZE</u> 1126	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 25L	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 04/23/2020	<u>MAG VAR</u> 12E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 MAY 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>
ZERLO		FIXAR		TF	FB	1.00	187.59	10.54	7000
FIXAR	IAF	HAMEK		TF	FB	1.00	258.26	7.15	5000
IWA VORTAC	IAF	HAMEK		TF	FB	1.00	316.99	8.75	5000
HAMEK	IF	GIPSE		TF	FB	1.00	258.18	3.60	4000
GIPSE		TIPLE		TF	FB	1.00	258.13	3.74	3000
TIPLE	FAF	TEKUY/2.40 NM TO RW25L		TF	FB	0.30	258.11	3.33	
TEKUY/2.40 NM TO RW25L		RW25L	MAP	TF	FO	0.30	258.11	2.40	
RW25L	MAP	1900 MSL		CA			258.11		1900
1900 MSL		CHOCK		DF	FB	1.00			
CHOCK		BRAAK		TF	FO	1.00	145.00	24.00	5000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW25L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1900 THEN CLIMBING LEFT TURN TO 5000 DIRECT CHOCK AND ON TRACK 145.00 TO BRAAK AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
16
CHECKED

PROFILE:

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

2. PROFILE STARTS AT HAMEK

3. FAC: 258.11 FAF: TIPLE DIST FAF TO MAP: 5.73 DIST FAF TO THLD: 5.73

4. MIN ALT: HAMEK 5000, GIPSE 4000, TIPLE 3000, TEKUY/2.40 NM TO RW25L 1940

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 323 HAT: 0.86 GS ANT:

6. MIN GP INCPT: 3000 GP ALT AT PFAF : TIPLE 3000 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 49.0

8. MSA FROM: RW25L 6100

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 2°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE VISIBLITY LPV ALL CATS TO 1 SM, LNAV/VNAV ALL CATS TO 1 3/8 SM AND LNAV CATS C/D 1 3/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 253.00 INBOUND.
CHART FAS OBST: 1428 CONTROL TOWER (04-000804) 332607N/1120021W.
CHART VDP AT 1.71 NM TO RW25L.
WAAS CHANNEL # 82211
REFERENCE PATH ID: W25B
CHART CIRCLING ICON.
LTP HAE: 313.5 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 1000-2 3/4, CAT D 1300-3

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	1449	1/2	323	1449	1/2	323	1449	1/2	323	1449	1/2	323			
LNAV/VNAV DA	1589	1	463	1589	1	463	1589	1	463	1674	1 1/8	548			
LNAV MDA	1740	1/2	614	1740	1/2	614	1740	1 3/8	614	1740	1 3/8	614			
CIRCLING	1740	1	605	1740	1	605	2040	2 3/4	905	2340	3	1205			



CHANGES - REASONS

1. CHANGED TERMINAL ROUTE FROM: GIPSE TO NAVOQ AND NAVOQ TO TEKUY/2.20 NM TO RW25L TO: GIPSE TO TIPLE AND TIPLE TO TEKUY/2.40 NM TO RW25L - PFAF MOVED 528 FT WEST TO ALIGN GPA WITH VGSI; FINAL STEPDOWN FIXED MOVED .2 NM.
2. CHANGED MISSED APPROACH FROM: CLIMB TO 5000 DIRECT OVNUY AND VIA 260.64 TRACK TO BXK VORTAC AND HOLD TO: CLIMB TO 1900 THEN CLIMBING LEFT TURN TO 5000 DIRECT CHOCK AND ON TRACK 145.00 TO BRAAK AND HOLD - NEW MISSED APPROACH INSTRUCTION AND HOLDING PER FPT REQUEST; 8260.19I 8-6-6 F(1).
3. CHANGED PROFILE LINE 2 FROM: FIXAR TO: HAMEK - 8260.19I 8-6-1 B(3)(A)
4. CHANGED PROFILE LINE 3 FROM: FAC:258.10, FAF: NAVOQ, DIST FAF TO MAP: 5.64, DIST FAF TO THLD: 5.64, TO: FAC: 258.11, FAF: TIPLE, DIST FAF TO MAP: 5.73, DIST FAF TO THLD: 5.73 - NEW PFAF; UPDATED PFAF FORMULA.
5. CHANGED PROFILE LINE 4 MIN ALT FROM: FIXAR 7000, HAMEK 5000, GIPSE 4000, NAVOQ 3000, TEKUY/2.20 NM TO RW25L 1880* TO: HAMEK 5000, GIPSE 4000, TIPLE 3000, TEKUY/2.40 NM TO RW25L 1940 - NEW PFAF; PROCEDURE REDESIGN.
6. ADDED 20:1: IS CLEAR TO PROFILE LINE 7 - NO 20:1 PENETRATIONS EXISTS.
7. ADDED CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED - 8260.19I 8-6-11 O(8)(A).
8. CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS. 8260.19I 8-6-9 O(8)(D).
9. LNAV PROCEDURE NA DURING SIMULTANEOUS APPROACH - 8260.19I 8-6-9 O(8)(C).
10. REMOVED DME/DME RNP-0.3 NA AND ADDED RNP APCH - GPS - 8260.19I 8-6-8 B(2).
11. CHANGED CHART NOTE FROM: FOR INOPERATIVE ALS, INCREASE VISIBILITY LPV ALL CATS TO 1 SM AND LNAV/VNAV ALL CATS TO 1 3/8 SM TO: CHART NOTE: FOR INOPERATIVE ALS, INCREASE VISIBILITY LPV ALL CATS TO 1 SM, LNAV/VNAV ALL CATS TO 1 3/8 SM AND LNAV CATS C/D1 3/4 SM - REVISED VISIBILITY TABLE 3-3-1.
12. CHANGED CHART NOTE FROM: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C (2°F) OR ABOVE 46°C (114°F) TO: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 2°C OR ABOVE 54 - UPDATED CRITICAL TEMPERATURES; FAHRENHEIT VALUES NO LONGER NEEDED.
13. CHANGED ADDITIONAL FLIGHT DATA FROM: HOLD W, RT, 083.56 INBOUND TO: HOLD E, RT, 253.00 INBOUND - REDESIGN MISSED APPROACH; NEW HOLDING.
14. UPDATED CHART FAS OBST FROM: 1428 CTRL TWR 332607N/1120021W, 1264 TRMSN TWR 332533N/1115843W TO 1428 CONTROL_TOWER (04-000804) 332607N/1120021W - NEW CONTROLLING OBSTACLE.
15. CHANGED VDP FROM 1.54 TO 1.71 - 8260.3E 2-6-5; LNAV MINIMUMS INCREASED.
16. CHANGED LPV ALL CATS DA/HAT FROM: 1482/356 TO: 1449/323 AND VISIBILITY ALL CATS FROM: 3/4 SM TO: 1/2 SM - NEW CONTROLLING OBSTACLE; REVISED VISIBILITY TABLE 3-3-1.
17. CHANGED LNAV/VNAV CATS A-C DA/HAT FROM: 1613/487 TO: 1589/463, CAT D FROM: 1613/487 TO: 1674/548 AND VISIBILITY CATS A-C FROM: 1 1/4 SM TO: 1 SM, CAT D FROM: 1 1/4 SM TO: 1 1/8 SM - NEW CONTROLLING OBSTACLE; REVISED VISIBILITY TABLE 3-3-1.
18. CHANGED LNAV ALL CATS MDA/HAT FROM: 1680/554 TO: 1740/614; CHANGED VISIBILITY CAT C FROM: 1 1/8 SM TO: 1 3/8, VISIBILITY CAT D FROM: 1 1/4 SM TO: 1 3/8 SM - NEW CONTROLLING OBSTACLE; REVISED VISIBILITY TABLE 3-3-1.
19. CHANGED CIRCLING CAT D MDA/HAA FROM: 2560/1425 TO: 2340/1205 - NEW CONTROLLING OBSTACLE; REVISED VISIBILITY TABLE 3-3-1.
20. FAS DATA LTP/FTP LATITUDE/LONGITUDE CHANGED FROM: 332543.8360N/1120005.5440W TO: 332543.8350N/1120005.5410W - INCORPORATED ACTIVE AIRNAV DATA.
21. FAS DATA FPAP CHANGED FROM: 332543.8900N/1120137.5700W TO: 332543.8995N/1120152.0025W - NEW PFAF.
22. CHANGED FAS DATA TCH FROM 00048.7 TO 00049.0 - NEW PFAF; PROCEDURE REDESIGN.
23. CRC REMAINDER CHANGED FROM: 0AA4F8C6 TO: E3008066 - UPDATED TCH; NEW PFAF; PROCEDURE REDESIGN.
24. CHANGED FAS DATA LENGTH OFFSET FROM: 0000 TO: 0376 - INCORPORATED ACTIVE AIRNAV DATA.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAB, PHX APCH, PHX ATCT, AZ AERO, AMGR

FLIGHT CHECKED BY

GARY J VEER

*Digitally signed by***DONALD H LANIER**

Apr 11, 2022

OFFICE

FPO

DATE

04/06/2022

DEVELOPED BY

DONALD H. LANIER (MICAH HILLEY)

*Digitally signed by***DONALD H LANIER**

Apr 11, 2022

OFFICE

AJV-A431

DATE

01/07/2022

APPROVED BY

LONNIE EVERHART

*Digitally signed by***DONALD H LANIER**

Apr 11, 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	KPHX
RUNWAY	RW25L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W25B
LTP/FTP LATITUDE	332543.8350N
LTP/FTP LONGITUDE	1120005.5410W
LTP/FTP ELLIPSOIDAL HEIGHT	+03135
FPAP LATITUDE	332543.8995N
FPAP LONGITUDE	1120152.0025W
THRESHOLD CROSSING HEIGHT (TCH)	00049.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0376
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	E3008066

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+03433
FPAP ORTHOMETRIC HEIGHT	+03433

