

**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 26	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> PHOENIX	<u>STATE</u> AZ		
<u>AIRPORT ELEVATION</u> 1135	<u>TDZE</u> 1135	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 26	<u>ORIGINAL/AMENDMENT</u> 2B	<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	IAF	CERUN		TF	FB	1.00	187.56	9.79	7000
CERUN		TODRE		TF	FB	1.00	258.30	7.40	5000
IWA VORTAC	IAF	TODRE		TF	FB	1.00	319.25	9.37	5000
TODRE	IF	JAGAL		TF	FB	1.00	258.22	3.60	4000
JAGAL		TINKM		TF	FB	1.00	258.18	3.31	3000
TINKM	FAF	RW26	MAP	TF	FO	0.30	258.14	5.69	
RW26	MAP	1700 MSL		CA			258.14		1700
1700 MSL		RAXEE		DF	FO	1.00			6000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW26

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 6000 DIRECT RAXEE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT TODRE

3. FAC: 258.14FAF: TINKMDIST FAF TO MAP: 5.69DIST FAF TO THLD: 5.69

4. MIN ALT: TODRE 5000, JAGAL 4000, TINKM 3000

5. DIST TO THLD FROM OM:MM:IM:150 HAT:255 HAT: 0.63GS ANT:

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

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 54.0

8. MSA FROM: RW26 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}).

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 286.41 INBOUND.
CHART FAS OBST: 1447 POLE (04-061805) 332645N/1115623W.
CHART VDP AT 1.55 NM TO RW26.
WAAS CHANNEL # 70321
REFERENCE PATH ID: W26A
LTP HAE: 316.1 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	1390	3/4	255	1390	3/4	255	1390	3/4	255	1390	3/4	255			
LNAV/VNAV DA	1581	1 3/8	446	1581	1 3/8	446	1581	1 3/8	446	1581	1 3/8	446			
LNAV MDA	1700	1	565	1700	1	565	1700	1 5/8	565	1700	1 5/8	565			
CIRCLING	1740	1	605	1740	1	605	2040	2 3/4	905	2340	3	1205			



CHANGES - REASONS

1. CHANGED TERMINAL ROUTES FROM: JAGAL TO YOKXO TO: JAGAL TO TINKM AND DISTANCE FROM: 3.40 TO 3.31 - PFAF MOVED 527.10 FT WEST TO ALIGN GPA TO WITH VGSI.
2. CHANGED TERMINAL ROUTE FROM: YOKXO TO RW26 TO: TINKM TO RW26 - NEW PFAF; PROCEDURE REDESIGN.
3. CHANGED MISSED APPROACH FROM: CLIMB TO 5000 DIRECT OJGIL AND VIA 259.44 TRACK BXK VORTAC AND HOLD TO: CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 6000 HEADING 290 DIRECT RAXEE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000 - NEW MISSED APPROACH INSTRUCTION AND HOLDING PER FPT REQUEST.
4. CHANGED PROFILE LINE 3 FROM: FAF: YOKXO, DIST FAF TO MAP: 5.60, DIST FAF TO THLD: 5.60 TO: FAF: TINKM, DIST FAF TO MAP: 5.69, DIST FAF TO THLD: 5.69 - NEW PFAF; PROCEDURE REDESIGN.
5. CHANGED PROFILE LINE 4 MIN ALT FROM: TODRE 5000, JAGAL 4000, YOKXO 3000 TO: TODRE 5000, JAGAL 4000, TINKM 3000 - NEW PFAF; PROCEDURE REDESIGN.
6. CHANGED PROFILE LINE 5 FROM: 301 HAT: 0.78 TO: 255 HAT: 0.63 - HAT LOWERED.
7. CHANGED PROFILE LINE 6 GP ALT AT PFAF FROM: YOKXO TO: TINKM - NEW PFAF; PROCEDURE REDESIGN.
8. ADDED 20:1: IS CLEAR TO PROFILE LINE 7 - NO 20:1 PENETRATIONS EXISTS.
9. REMOVED DME/DME RNP-0.3 NA AND ADDED RNP APCH - GPS - 8260.19I 8-6-8 B(2).
10. ADDED CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED - 8260.19I 8-6-11 O(8)(A).
11. 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°C - UPDATED CRITICAL TEMPERATURES; FAHRENHEIT VALUES NO LONGER NEEDED.
12. CHANGED ADDITIONAL FLIGHT DATA FROM: HOLD W, RT, 083.56 INBOUND TO: HOLD E, RT, 286.41 INBOUND - REDESIGN MISSED APPROACH; NEW HOLDING.
13. UPDATED CHART FAS OBST FROM: 1550 TOWER 332542N/1115609W, 1352 BLDG 332700N/1115851W TO: 1447 POLE(04-061805) 332645N/1115623W - NEW CONTROLLING OBSTACLE.
14. CHANGED CHART VDP FROM: 1.90 NM TO RW26 TO: 1.55 NM TO RW26 - LNAV MINIMA DECREASED.
15. CHANGED ALTERNATE MINIMUMS FROM: STANDARD - CAT C 1000-2 3/4, CAT D 1500-3 TO: STANDARD - CAT C 1000-2 3/4, CAT D 1300-3 - 8260.19I 8-6-11; 8260.3E 3-4-1.
16. CHANGED LPV ALL CATS DA/HAT FROM: 1436/301 TO: 1390/255 AND VISIBILITY ALL CATS FROM: 1 SM TO: 3/4 SM - NEW CONTROLLING OBSTACLE; REVISED VISIBILITY TABLE 3-3-1.
17. CHANGED LNAV/VNAV ALL CATS DA/HAT FROM: 1659/524 TO: 1581/446 AND VISIBILITY ALL CATS FROM: 1 3/4 SM TO: 1 3/8 SM - NEW CONTROLLING OBSTACLE; REVISED VISIBILITY TABLE 3-3-1.
18. CHANGED LNAV ALL CATS MDA/HAT FROM: 1800/665 TO: 1700/565 AND VISIBILITY CAT C FROM: 1 3/4 SM TO: 1 5/8 SM; VISIBILITY CAT D FROM: 2 SM TO: 1 5/8 SM - NEW CONTROLLING OBSTACLE; REVISED VISIBILITY TABLE 3-3-1.
19. CHANGED CIRCLING CAT A-B MDA/HAA CAT A FROM: 1800/665 TO: 1740/605; CAT D FROM: 2560/1425 TO 2340/1205 - CHANGED LNAV/VNAV ALL CATS DA/HAT FROM: 1659/524 TO: 1581/446 AND VISIBILITY ALL CATS FROM: 1 3/4 SM TO: 1 3/8 SM - NEW CONTROLLING OBSTACLE.
20. CHANGED FAS DATA LTP/FTP LONGITUDE FROM: 1115931.6875W TO: 1115931.7880W - INCORPORATED ACTIVE AIRNAV DATA.
21. CHANGED FAS DATA FPAP LATITUDE/LONGITUDE FROM: 332627.1000N/1120147.4300W TO: 332627.0990N/1120147.2645W - NEW PFAF.
22. CHANGED FAS DATA LENGTH OFFSET FROM: 0008 TO: 0000 - INCORPORATED ACTIVE AIRNAV DATA.
23. CRC REMAINDER CHANGED FROM: CF0E8C1A TO: 134DBA43 - FPAF AND LTP COORDINATES UPDATED.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAB, APT MGR.

FLIGHT CHECKED BY	<i>Digitally signed by</i>	OFFICE	DATE
GARY J VEER	DONALD H LANIER	FPO	04/05/2022
	Apr 11, 2022		

DEVELOPED BY	<i>Digitally signed by</i>	OFFICE	DATE
DONALD H. LANIER (MICAH HILLEY)	DONALD H LANIER	AJV-A431	01/10/2022

APPROVED BY	<i>Digitally signed by</i>	OFFICE	DATE	TITLE
LONNIE EVERHART	DONALD H LANIER	AJV-A430		MANAGER
	Apr 11, 2022			

QUALITY
16
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPHX
RUNWAY	RW26
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W26A
LTP/FTP LATITUDE	332626.9640N
LTP/FTP LONGITUDE	1115931.6880W
LTP/FTP ELLIPSOIDAL HEIGHT	+03161
FPAP LATITUDE	332627.0990N
FPAP LONGITUDE	1120147.2645W
THRESHOLD CROSSING HEIGHT (TCH)	00054.0
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)	50.0
 CRC REMAINDER	 134DBA43

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+03459
FPAP ORTHOMETRIC HEIGHT	+03459

