

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> 60R	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> NAVASOTA	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 229	<u>TDZE</u> 229	<u>SUPERSEDED</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>DATED</u> 05/16/2024
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 31 OCTOBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 3E
				<u>EPOCH YEAR</u> 2015
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
KNGSY	IAF	HOXID		TF	FB	1.00	084.32	10.00	3000
PIGNY	IAF	HOXID		TF	FB	1.00	264.52	10.00	3000
HOXID	IF	JOVPA		TF	FB	1.00	174.42	7.00	2000
JOVPA	FAF	OLNAJ/2.47 NM TO RW17		TF	FB	0.30	174.43	2.95	
OLNAJ/2.47 NM TO RW17		RW17	MAP	TF	FO	0.30	174.43	2.47	
RW17	MAP	479 MSL		CA			174.43		
479 MSL		ZUGUK		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT ZUGUK AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF
- (IAF)
2. PROFILE STARTS AT HOXID
3. FAC: 174.43
- FAF: JOVPA
- DIST FAF TO MAP: 5.42
- DIST FAF TO THLD: 5.42
4. MIN ALT: HOXID 3000, JOVPA 2000, OLNAJ/2.47 NM TO RW17 1060
5. DIST TO THLD FROM OM: MM: IM:
- 150 HAT: 250 HAT: 0.64 GS ANT: IM:
6. MIN GP INCPT: 2000 GP ALT AT PFAF: JOVPA 2000 OM: MM:
7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 45.0
8. MSA FROM: RW17 3000



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 NOT AUTHORIZED.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING 11R ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE 11R ALTIMETER SETTING AND INCREASE LPV DA TO 529 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 635 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C AND D 1/8 SM.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 0.96 NM TO RW17.

HOLD S, RT, 354.44 INBOUND.
CHART FAS OBST: 328 TREE 302336N/0960615W.
WAAS CHANNEL # 42931
REFERENCE PATH ID: W17A
LTP HAE: 42.5 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	479	1	250	479	1	250	479	1	250	479	1	250			
LNAV/VNAV DA	585	1	356	585	1	356	585	1	356	585	1	356			
LNAV MDA	580	1	351	580	1	351	580	1	351	580	1	351			

CHANGES - REASONS

1. TERMINAL ROUTES: ADDED NEW INITIAL FROM KNGSY TO HOXID, COURSE 084.32, DISTANCE 10.00 NM - T-DESIGN REQUESTED BY ATC.
2. TERMINAL ROUTES: ADDED NEW INITIAL FROM PIGNY TO HOXID, COURSE 264.52, DISTANCE 10.00 NM - T-DESIGN REQUESTED BY ATC.
3. TERMINAL ROUTES: UPDATED HOXID TO JOVPA DISTANCE FROM "5.00" TO "7.00" - MOVED HOXID TO ACCOMMODATE THE NEW T-DESIGN FOR THE INITIAL FIXES PER FPT.
4. TERMINAL ROUTES: UPDATED FROM "JOVPA TO OLN AJ/2.50 NM TO RW17" TO "JOVPA TO OLN AJ/2.47 NM TO RW17" AND DISTANCE FROM "2.92" TO "2.95"; FROM "OLN AJ/2.50 NM TO RW17 TO RW17" TO "OLN AJ/2.47 NM TO RW17 TO RW17" AND DISTANCE FROM "2.50" TO "2.47" - FAF/SDF MOVED TO ALIGN WITH 3.00 GPA.
5. TERMINAL ROUTES: CHANGED CA ALTITUDE FROM "529" TO "479" - UPDATED LPV DA.
6. PROFILE LINE 4: UPDATED FROM "HOXID 2000, JOVPA 2000, OLN AJ/2.50 NM TO RW17 1060" TO "HOXID 3000, JOVPA 2000, OLN AJ/2.47 NM TO RW17 1060" - NEW IF ALTITUDE PER FPT/SDF MOVED TO ALIGN WITH 3.00 GPA.
7. PROFILE LINE 5: UPDATED FROM "DIST TO THLD FROM 300 HATH: 0.80 NM" TO "250 HAT: 0.64" - HAT CHANGED DUE TO NEW CONTROLLING OBSTACLE AND MOVED FROM ADDITIONAL FLIGHT DATA PER 8260.19J, PARA 8-6-7. E (3).
8. PROFILE LINE 7: UPDATED TCH VALUE FROM "45.2" TO "45" – ALIGNED TO VGSI TCH.
9. CHART NOTE: UPDATED FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BRENHAM MUNI ALTIMETER SETTING AND INCREASE LPV DA TO 579 FEET AND ALL VISIBILITIES 1/8 SM, INCREASE LNAV/VNAV DA TO 685 FEET AND ALL VISIBILITIES 1/4 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE 11R ALTIMETER SETTING AND INCREASE LPV DA TO 529 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 635 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C AND D 1/8 SM" - PER 8260.3E, TABLE 3-3-1.
10. COMBINED CHART NOTES: FROM "CHART NOTE: VDP NA WITH BRENHAM ALTIMETER SETTING AND CHART NOTE: BARO-VNAV NA" TO "BARO-VNAV AND VDP NA WHEN USING 11R ALTIMETER SETTING" - PER 8260.19J, 8-6-10. E (8/9); PRIMARY ALTIMETER NOT REMOTE.
11. CHART NOTE: ADDED "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C" - LOCAL ALTIMETER EMPLOYED AND ON WMSCR/PER 8260.19J, 8-6-10 R.
12. DELETED CHART PLANVIEW NOTE: RADAR REQUIRED - NO LONGER REQUIRED.
13. ADDITIONAL FLIGHT DATA: UPDATED FROM "CHART VDP AT 1.08 NM TO RW17" TO "CHART VDP: 0.96 NM TO RW17" - MDA DECREASED.
14. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST FROM "316 TREE (K60RT000048) 302410N/0960614W" TO "328 TREE 302336N/0960615W" - NEW CONTROLLING OBSTACLE.
15. ALTERNATE MINIMUMS: UPDATED FROM "NA" TO "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE" - LOCAL ALTIMETER IS ON WMSCR/PER 8260.19J 8-6-12. B (4).
16. MINIMUMS: DECREASED LPV ALL CATS DA/HAT FROM "529/300" TO "479/250" - NEW CONTROLLING OBSTACLE.
17. MINIMUMS: DECREASED LNAV/VNAV ALL CATS DA/HAT FROM "635/406" TO "585/356" AND VISIBILITY ALL CATS FROM "1 3/8 SM" TO "1 SM" - NEW CONTROLLING OBSTACLE/PER 8260.3E, TABLE 3-3-1.
18. MINIMUMS: DECREASED LNAV ALL CATS MDA/HAT FROM "620/391" TO "580/351" AND CAT C/D VISIBILITY FROM "1 1/8 SM" TO "1 SM" - NEW CONTROLLING OBSTACLE/PER 8260.3E, TABLE 3-3-1, 3-3-3, 3-3-4.
19. FAS DATA: UPDATED TCH FROM "45.2" TO "45" – APPROACH ALIGNED TO VGSI.
20. FAS DATA: CRC REMAINDER CHANGED FROM "DAC71FFD" TO "5DAB41EA" - UPDATED FPAP LONGITUDE FROM "0960643.3090W" TO "0960643.3125W."

COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

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HAI

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NBAA

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OTHER: ZHU, HOU APP CON, CLL ATCT, AMGR

FLIGHT CHECKED BY

JEFFREY J SCORSE

Digitally signed by

ROBERT G HAMILTON

Aug 19, 2024

OFFICE

FPO

DATE

08/14/2024

DEVELOPED BY

ROBERT G HAMILTON (KAMARUDINI R. RAIMI)

Digitally signed by

ROBERT G HAMILTON

Aug 19, 2024

OFFICE

AJV-A433

DATE

03/11/2024

APPROVED BY

ROBERT G HAMILTON

Digitally signed by

ROBERT G HAMILTON

Aug 19, 2024

OFFICE

AJV-A433

DATE

TITLE

MANAGER



AIRPORT ID
60R

PROCEDURE NAME
RNAV (GPS) RWY 17

ORIGINAL/AMENDMENT
1

CITY
NAVASOTA

STATE
TX

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	60R
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	302226.4230N
LTP/FTP LONGITUDE	0960647.9270W
LTP/FTP ELLIPSOIDAL HEIGHT	+00425
FPAP LATITUDE	302057.2030N
FPAP LONGITUDE	0960643.3125W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	5DAB41EA
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00698
FPAP ORTHOMETRIC HEIGHT	+00698

