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.

ORIGINAL/AMENDMENT PROCEDURE NAME **CITY STATE AIRPORT ID** RNAV (GPS) RWY 17 LLANO TX 1 KAQO

AIRPORT ELEVATION TDZE SUPERSEDED ORIGINAL/AMENDMENT DATED MAG VAR EPOCH YEAR 1102 1102 RNAV (GPS) RWY 17 ORIG-B 11/07/2019 5E 2010

FACILITY COORDINATES OF FACILITIES ACTUAL EFFECTIVE DATE REQUIRED EFFECTIVE DATE CANCEL/SUSPEND ROUTINE

RNAV 23 FEBRUARY 2023

THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 23-05. **TERMINAL ROUTES**

<u>FROM</u>	FIX TYPE	<u>TO</u>	FIX TYPE	LEG TYPE	FO/FB	RNP	<u>COURSE</u>	DISTANCE	ALTITUDE
LLO VORTAC		AKEKY		TF	FO	1.00	020.98	14.33	3300
AGJ VORTAC	IAF	AKEKY	NOPT	TF	FB	1.00	244.02	28.93	3300
AKEKY	IF/IAF	HIWGO		TF	FB	1.00	174.21	8.31	2700
HIWGO	FAF	FEPNI/2.61 NM TO RW17		TF	FB	0.30	174.21	2.36	
FEPNI/2.61 NM TO RW17		RW17	MAP	TF	FO	0.30	174.21	2.61	
RW17	MAP	1502 MSL		CA			174.21		
1502 MSL		IYMUD		DF	FO	1.00			3500

MISSED APPROACH

MAP:

LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT IYMUD AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



AIRPORT ID PROCEDURE NAME **ORIGINAL/AMENDMENT** <u>CITY</u> <u>STATE</u> **KAQO** RNAV (GPS) RWY 17 **LLANO** TX

PROFILE:

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

2. HOLD N AKEKY, RT, 174.21 INBOUND, 3300 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 174.21 FAF: HIWGO **DIST FAF TO MAP: 4.98 DIST FAF TO THLD: 4.98**

4. MIN ALT: AKEKY 3300, HIWGO 2700, FEPNI/2.61 NM TO RW17 1960

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

6. MIN GP INCPT: GP ALT AT FAF: OM: MM: IM:

7. GP ANGLE: 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH:

8. MSA FROM: RW17 3700

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON AGJ VORTAC AIRWAY RADIALS 185 CW 202.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LLO VORTAC AIRWAY RADIALS 018 CW 103.

ADDITIONAL FLIGHT DATA:

HOLD S. RT. 354.21 INBOUND.

CHART FAS OBST: 1264 TREE 304918N/0983912W.

CHART 1400 TREE 305011N/0984046W.

1720 AAO 305234N/0983750W.

CHART VDP AT 1.29 NM TO RW17.

HIWGO TO RW17: 2.95/40.

MINIMUMS:

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

STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE. **ALTERNATE: NA**

CATEGORY:		Α			В			С			D			E	
FINAL TYPE	DA/MDA	<u>VIS</u>	HAT/HAA												
LNAV MDA	1520	1	418	1520	1	418		NA			NA				



AIRPORT ID PROCEDURE NAME ORIGINAL/AMENDMENT CITY STATE

KAQO RNAV (GPS) RWY 17 1 LLANO TX

CHANGES - REASONS

PURPOSE FOR AMENDMENT: MOVED FAF AND SDF TO ALIGN PROCEDURE TO WITHIN 0.20 DEGREES OF NEW RUNWAY VGSI OF 27.5/40.

TERMINAL ROUTES: CHANGED AKEKY TO HIWGO DISTANCE FROM 8.46 TO 8.31 - NEW FAF LOCATION DUE TO MATCHING PROCEDURE TO RUNWAY VGSI AND TCH.

LINE 2: ADDED ", MAX 6000" - MAXIMUM HOLDING ALTITUDE AT AKEKY.

LINE 3: CHANGED DIST FAF TO MAP AND DIST FAF TO THLD FROM 4.83 TO 4.98 - NEW FAF LOCATION.

LINE 7: CHANGED NOTE FROM 34:1 IS CLEAR TO 34:1 IS NOT CLEAR - INCORPORATED CHANGES FROM PNOTAM AMENDMENT ORIG-A.

LINE 7: ADDED NOTE 20:1 IS CLEAR - IAW 8260.19I, 8-6-7.G.(3).

PBN REQUIREMENTS NOTES: ADDED RNP APCH - GPS - IAW 8260.19I, 8-6-8.B.(1).

NOTES: DELETED NOTE DME/DME RNP-0.3 NA AND ADDED RWY 17 HELICOPTER VISIBILTY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - INCORPORATED CHANGES FROM PNOTAM AMENDMENT ORIG-A.

NOTES: DELETED PROFILE NOTE FROM VGSI AND DESCENT ANGLES NOT COINCIDENT - 8-6-9.M.

NOTES: CHANGED PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVAL AT AGJ VORTAC AIRWAY RADIALS 182 CW 199 TO PROCEDURE NA FOR ARRIVAL ON AGJ VORTAC AIRWAY RADIALS 185 CW 202 - IAW 8260.191, 8-2-5.E.

NOTES: CHANGED PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVAL AT LLO VORTAC VIA V161-568 SOUTHBOUND TO PROCEDURE NA FOR ARRIVAL ON LLO VORTAC AIRWAY RADIALS 018 CW 103 - IAW 8260.19I, 8-2-5.E.

REMOVED BACKUP ALTIMETER AND ASSOCIATED VDP NA NOTE - MOVED TO -9 AS A CONTINGENCY.

ADDITIONAL FLIGHT DATA: CHANGED FAS OBST FROM 1304 TREE 304938N/0983853W TO 1264 TREE 304918N/0983912W - IAW 8260.19I, 8-6-10.E.

ADDITIONAL FLIGHT DATA: DELETED CHART 1483 TREE 305011N/0984053/W AND ADDED CHART 1400 TREE 305011N/0984046W- IAW 8260.19I, 8-6-10.E.

ADDITIONAL FLIGHT DATA: ADDED 1720 AAO 305234N/0983750W - IAW 8260.19I, 8-6-10.E.

ADDITIONAL FLIGHT DATA: CHANGED VDP DISTANCE FROM 1.25 NM TO 1.29 NM - CURRENT DESIGN.

ADDITIONAL FLIGHT DATA: CHANGED HIWGO TO RWY 17 FROM 3.04/40 TO 2.95/40 - NEW VGSI DATA.

MINIMUMS: REDUCED LNAV MDA/HAT FROM 1560/458 TO 1520/418 - CURRENT OBSTACLES.

MINIMUMS: DELETED CIRCLING MINS - INCORPORATED CHANGES FROM PNOTAM AMENDMENT ORIG-B

01/05/23: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/28/22.

- 1. PROFILE LINE 4: CHANGED FEPNI FROM "2.36 NM TO RW17" TO "2.61 NM TO RW17".
- 2. CHANGED NOTE FROM "CHART NOTE: PROCEDURE NA FOR ARRIVAL ON LLO VORTAC AIRWAY RADIALS 018 CW 103" TO "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON LLO VORTAC AIRWAY RADIALS 018 CW 103".

COORDINATED WITH:

A4A 🗌 ALPA 💢	AOPA 🗙 APA 🗌 HAI 🗌 NBAA 🗙	OTHER: ZHU, AMGR		
FLIGHT CHECKED BY GARY BELL	Digitally signed by JASON KRETSCHMER Jan 06, 2023	<u>OFFICE</u> FPO	DATE 12/20/2022	
DEVELOPED BY DALE SICKELS	Digitally signed by DALE P SICKELS	<u>OFFICE</u> AJV-A421	<u>DATE</u> 09/30/2022	
APPROVED BY DALE SICKELS	Jan 05, 2023 Digitally signed by JASON KRETSCHMER	OFFICE AJV-A420	DATE	<u>TITLE</u> MANAGER
	Jan 06, 2023			

