

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</u> LAMESA MUNI	<u>AIRPORT ID</u> KLUV	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> LAMESA	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 2999	<u>TDZE</u> 2995	<u>SUPERSEDED</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 04/02/2015	<u>MAG VAR</u> 6E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 JULY 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
YOTUD	IAF	ZOPNI	NOPT	TF	FB	1.00	229.43	15.90	5500
ZOPNI	IF/IAF	HIPKO		TF	FB	1.00	159.28	14.81	4600
HIPKO	FAF	RW16	MAP	TF	FO	0.30	159.34	4.91	
RW16	MAP	3245 MSL		CA			159.34		
3245 MSL		YUPUC		DF	FO	1.00			5500

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5500 DIRECT YUPUC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. HOLD N ZOPNI, RT, 159.28 INBOUND, 5500 FT. IN LIEU OF PT (IAF), MAX 6000.
3. **FAC:** 159.34 **FAF:** HIPKO **DIST FAF TO MAP:** 4.91 **DIST FAF TO THLD:** 4.91
4. **MIN ALT:** ZOPNI 5500, HIPKO 4600
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **250 HAT:** 0.65
6. **MIN GP INCPT:** 4600 **GP ALT AT FAF :** HIPKO 4600 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 45.0
8. **MSA FROM:** RW16 4800



PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH.

NOTES:
CHART NOTE: CIRCLING RWY 7, 25 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C OR ABOVE 54C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT YOTUD ON V563 NORTHWEST BOUND.
CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT ZOPNI ON V76-81 SOUTHBOUND.

ADDITIONAL FLIGHT DATA:
CHART CIRCLING ICON.
CHART VDP AT 1.49 NM TO RW16*
*LNAV ONLY
WAAS CHANNEL #70726
REFERENCE PATH ID: W16A
FAS OBST: 3234 AAO 324939N/1015628W.
HOLD S, RT, 339.36 INBOUND
LTP HAE: 887.7 M

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4

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	3245	3/4	250	3245	3/4	250	3245	3/4	250	3245	3/4	250			
LNAV/VNAV DA	3245	3/4	250	3245	3/4	250	3245	3/4	250	3245	3/4	250			
LNAV MDA	3500	1	505	3500	1	505	3500	1 3/8	505	3500	1 3/8	505			
CIRCLING	3500	1	501	3500	1	501	3700	2	701	3840	2 3/4	841			



CHANGES - REASONS

1. CHANGED AIRPORT IDENTIFICATION DESIGNATION FROM K2F5 TO KLUV. - FPT CHECKLIST INDICATES PRIMARY REASON FOR PROJECT IS AIRPORT 3-LETTER CHANGE AMD MAG VAR UPDATE.
2. CHANGED AIRPORT MAG VAR FROM E09 (1995) TO E06 (2020). - MAG VAR ADJUSTMENT TO BRING AIRPORT WITHIN TOLERANCE SHIFTED COURSES BY 3 DEGREES.
3. CHANGED YOTUD TO ZOPNI COURSE FROM 226.43 TO 229.43 IN TERMINAL ROUTES. - MAG VAR ADJUSTMENT TO REMAIN WITHIN TOLERANCE SHIFTED COURSES BY 3 DEGREES.
4. CHANGED ZOPNI TO HIPKO COURSE FROM 156.29 TO 159.28 IN TERMINAL ROUTES. - MAG VAR ADJUSTMENT SHIFTED COURSE BY 3 DEGREES AND FAF HIPKO MOVED 5.32 FT NE TO OPTIMIZE FINAL ALIGNMENT.
5. CHANGED HIPKO TO RW16 COURSE FROM 156.33 TO 159.34 IN TERMINAL ROUTES. - MAG VAR ADJUSTMENT SHIFTED COURSE BY 3 DEGREES AND FAF HIPKO MOVED 5.32 FT NE TO OPTIMIZE FINAL ALIGNMENT.
6. CHANGED TERMINAL ROUTE FOR MISSED APPROACH CA LEG FROM RW16 TO 3299 MSL 156.33 TO RW16 TO 3245 MSL 159.34. - ADJUSTED CA LEG ALTITUDE TO MATCH LOWEST DA AND NEW FINAL APPROACH COURSE.
7. CHANGED TERMINAL ROUTE FROM "3399 MSL TO YUPUC" TO "3245 MSL TO YUPUC." - MISSED APPROACH INITIAL ALTITUDE ADJUSTED TO BEGIN AT LOWEST DA OF 3245 MSL.
8. CHANGED LINE 2 HOLD-IN-LIEU INBOUND COURSE FROM 156.29 TO 159.28. - MAG VAR ADJUSTMENT SHIFTED COURSE BY 3 DEGREES AND FAF HIPKO MOVED 5.32 FT NE TO OPTIMIZE FINAL ALIGNMENT.
9. CHANGED LINE 3 FAC FROM 156.33 TO 159.34. - MAG VAR ADJUSTMENT SHIFTED COURSE BY 3 DEGREES AND FAF HIPKO MOVED 5.32 FT NE TO OPTIMIZE FINAL ALIGNMENT.
10. CHANGED LINE 7 FROM 34:1 IS NOT CLEAR TO 20:1 IS CLEAR 34:1 IS CLEAR. - UPDATED/MOST CURRENT OBSTACLE DATA BASE SHOWED NO 34:1 NOR 20:1 PENETRATIONS VALIDATING FPT CHECKLIST WHICH INDICATES THAT NO VISUAL SURFACE OBSTACLES EXIST.
11. CHANGED LINES OF MINIMA FROM LP AND LNAV TO LPV, LNAV/VNAV, AND LNAV. - NEW LINES OF MINIMA DEVELOPED PER ATC AND FPT REQUEST.
12. CHANGED ADDITIONAL FLIGHT DATA HOLDING COURSE FROM 336.73 INBOUND TO 339.36 INBOUND. - NEW HOLDING COURSE REFLECTS MAG VAR UPDATE AND COURSE ALIGNMENT FOR RWY 34 IAP.
13. CHANGED ADDITIONAL FLIGHT DATA FAS OBST NOTES FROM 2329 AAO 325012N/1015636W AND 3244 AAO 325025N/1015643W TO 3234 AAO 32324939N/1015628W. - MOST CURRENT OBSTACLE AND DTED DATABASE INDICATES 3034 IS HIGHEST TERRAIN IN FINAL OF WHICH, ON TOP, AN AAO WAS PLACED.
14. CHANGED CHART NOTE FROM DME/DME RNP -0.3 NA TO PBN REQUIREMENTS NOTES: RNP APCH. - NEW EQUIPMENT REQUIREMENTS NOTES AND FORMATTING PER 8260.19H AND MEMO 257.
15. REMOVED CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. - RESTRICTION WAS BECAUSE OF VISUAL SURFACE OBSTACLES; MOST CURRENT DATA SHOWS THAT NO 20:1 NOR 34:1 VISUAL SURFACE OBSTACLES EXIST.
16. CHANGED CHART PROFILE NOTE FROM VGSI AND DESCENT ANGLES NOT COINCIDENT TO VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). - TCH REMAINS AT 45 FT INSTEAD OF 31.4 FT AT THE REQUEST OF ATC AND FPT; NEW FORMATTING IAW 8260.19H.
17. REMOVED CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF, WHEN NOT RECEIVED, USE SEMINOLE ALTIMETER SETTING AND INCREASE ALL MDA 140 FT; INCREASE LP AND LNAV CAT C AND D AND CIRCLING CAT D VISIBILITY 1/2 MILE AND CIRCLING CAT C VISIBILITY 3/8 MILE." - UPDATED NOTE MOVED TO BACK OF 8260-9 FOR CONTINGENCY PURPOSES ONLY.
18. CHANGED CRC REMAINDER FROM 4296EC16 TO 47163839. - AIRPORT IDENTIFIER CHANGED FROM 2F5 TO KLUV, LTP/FTP LAT/LONG CHANGED FROM 324537.7330N/1015505.8470W TO 324537.7490N/1015505.8545W, AND VERTICAL ALERT LIMIT (VAL) CHANGED FROM 0.0 TO 50.0.
19. CHANGED MSA RW16 25 NM FROM 4900 FT MSL TO 4800 FT MSL. - MOST CURRENT OBSTACLE DATABASE INDICATES NEW CONTROLLING OBSTACLE WHICH ALLOWS FOR A 100 FT REDUCTION IN MSA.
20. ADDED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C OR ABOVE 54C. - WITH ADDITION OF LNAV/VNAV MINIMUMS, CRITICAL HIGH AND LOW TEMPERATURES MUST BE ESTABLISHED/DOCUMENTED; CRITICAL TEMP DERIVED FROM STANDARD -30C ISA DEVIATION.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZFW, AMGR

FLIGHT CHECKED BY

Digitally signed by

ANTHONY D VALLERA

ROBERT G HAMILTON

Apr 23, 2018

OFFICE

FICO

DATE

4/18/18

DEVELOPED BY

Digitally signed by

ROBERT G HAMILTON (JOSHUA LEETE)

ROBERT G HAMILTON

Apr 23, 2018

OFFICE

AJV-5422

DATE

02/09/2018

APPROVED BY

Digitally signed by

JULIE MORGAN

ROBERT G HAMILTON

Apr 23, 2018

OFFICE

AJV-5420

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLUV
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	324537.7490N
LTP/FTP LONGITUDE	1015505.8545W
LTP/FTP ELLIPSOIDAL HEIGHT	+08877
FPAP LATITUDE	324411.3745N
FPAP LONGITUDE	1015439.1395W
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	 47163839

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+09119
FPAP ORTHOMETRIC HEIGHT	+09119

