

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM	TO			COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW16 CLIMB TO 2000 DIRECT JOTAD AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 345.90 INBOUND. CHART FAS OBST: 576 ANTENNA 303754N/0962129W. DISTANCE TO THLD FROM 250 HAT: 0.63 NM. CHART VDP AT 1.46 NM TO RW16* *LNAV ONLY. WAAS CHANNEL # 78322 REFERENCE PATH ID: W16A CHART CIRCLING ICON. CHART PLANVIEW NOTE: RADAR REQUIRED. LTP HAE: 71 M							
FEPR (IAF)	ZAKBU (TF) (FB) (RNP 1.00)			255.95 / 10.10				2100									
CEYAD (IAF)	ZAKBU (TF) (FB) (RNP 1.00)			075.75 / 10.10				2100									
ZAKBU (IF)	HOPAL (TF) (FB) (RNP 1.00)			165.85 / 7.00				2100									
HOPAL (FAF)	JEMON/2.00 NM TO RW16 (TF) (FB) (RNP 0.30)			165.86 / 3.43													
JEMON/2.00 NM TO RW16	RW16 (MAP) (TF) (FO) (RNP 0.30)			165.86 / 2.00													
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT ZAKBU 3. FAC: 165.86 FAF: HOPAL DIST FAF TO MAP: 5.43 THLD: 5.43 4. MIN. ALT: ZAKBU 2100, HOPAL 2100, JEMON/2.00 NM TO RW16 1000* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2100 GS ALT AT: HOPAL 2100 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 51.0 34:1 IS NOT CLEAR 8. MSA FROM: RW16 3000										MAG VAR: 3E EPOCH YEAR: 2020							
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @								
CATEGORY >>>>>	A			B			C			D			E				
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LPV DA	571	3/4	250	571	3/4	250	571	3/4	250	571	3/4	250	571	3/4	250		
LNAV/VNAV DA	637	1	316	637	1	316	637	1	316	637	1	316	637	1	316		
LNAV MDA	840	1	519	840	1	519	840	1 3/8	519	840	1 3/8	519	840	1 3/8	519		
CIRCLING	860	1	539	880	1	559	1000	2	679	1180	2 3/4	859	1180	3	859		
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -3C (27F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.																	
CITY AND STATE COLLEGE STATION, TX							ELEVATION: 321 TDZE: 321 AIRPORT NAME: EASTERWOOD FIELD			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16, AMDT 1B			SUP:	
																AMDT: 1A	
																DATED 08/18/2016	



ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
ROUTINE					
COORDINATED WITH:					
ATA <div><input checked="" type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>		ALPA <div><input checked="" type="checkbox"/></div>	
APA <div><input checked="" type="checkbox"/></div>		AOPA <div><input checked="" type="checkbox"/></div>		NBAA <div><input checked="" type="checkbox"/></div>	
OTHER (specify)		<div><input checked="" type="checkbox"/> ZHU, IAH APP CON, CLL ATCT, APT MGR, ST. AV. DIR.</div>			
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
HERMAN C. ROGERS				AJV-5432	09/05/2017
APPROVED BY					
NAME:				FIFO	DATE:
PATRICK MULQUEEN				AJV-5430	
CHANGES:					
<div>1. CHANGED ALL HEADINGS, TRACKS, AND COURSES +3 DEGREES PER AIRPORT MAGVAR UPDATE.</div> <div>2. CHANGED AIRPORT MAGVAR FROM 6E/1985 TO 3E/2020.</div> <div>3. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA.</div> <div>4. CHANGED CIRC CAT C MDA/VIS FROM 880/1 1/2 TO 1000/2, CAT D FROM 1000/2 1/4 TO 1180/2 3/4.</div> <div>5. REMOVED NOTE, NIGHT LANDING RWY 28 NA.</div> <div>6. UPDATED AND MOVED BACKUP ALTIMETER SETTING NOTES TO THE REMARKS SECTION OF THE 8260-9.</div> <div>7. CHANGED FAS DATA CRC REMAINDER FROM EA1B8F37 TO 6363615E.</div> <div>8. CHANGED HELICOPTER VIS NA NOTE TO READ: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.</div> <div>9. CHANGED VDP TO THLD DIST FROM 1.46 NM TO 1.47 AND DIST TO THLD FROM 250 HATH FROM 0.62 TO 0.63 FROM HAT.</div>					
REASONS:					
<div>1/2. MAGVAR UPDATED.</div> <div>3/4. 8260.3 CIRCLING CRITERIA APPLIED.</div> <div>5. 20:1 VISUAL SURFACE IS CLEAR.</div> <div>6. WE ARE NO LONGER REQUIRED TO PUBLISH BACKUP ALTIMETER SETTING NOTES WHEN PRIMARY IS WMSCR.</div> <div>7. IN FAS DATA, RE-ENTERED NEW LTP COORDINATES.</div> <div>8. 34:1 VISUAL SURFACE PENETRATED.</div> <div>9. NEW RUNWAY SURVEY DATA.</div>					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW16 (MAP)	571 MSL (CA)	165.86	
571 MSL	JOTAD (DF) (FO) (RNP 1.00)		2000



CITY AND STATE
COLLEGE STATION, TX

ELEVATION: 321 TDZE: 321
AIRPORT NAME:
EASTERWOOD FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 16, AMDT 1B

SUP:
AMDT: 1A
DATED: 08/18/2016

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCLL
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	303547.9015N
LTP/FTP LONGITUDE	0962146.2765W
LTP/FTP ELLIPSOIDAL HEIGHT	+00710
FPAP LATITUDE	303420.2700N
FPAP LONGITUDE	0962126.3600W
THRESHOLD CROSSING HEIGHT (TCH)	00051.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 6363615E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00977
FPAP ORTHOMETRIC HEIGHT	+00977

QUALITY
19
CHECKED

CITY AND STATE COLLEGE STATION, TX	ELEVATION: 321 TDZE: 321 AIRPORT NAME: EASTERWOOD FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16, AMDT 1B	SUP:
				AMDT: 1A
				DATED: 08/18/2016

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.			
INITIAL	FEFRA	ZAKBU	1. TOWER (48-008428)	304838.69N/0961536.86W	830 (1A)	1000	AT270	2100			
			2. TERRAIN	304903.00N/0962400.00W	440 (400)		AS1500	1900			
INITIAL	CEYAD	ZAKBU	3. TOWER (48-004509)	304526.80N/0962804.59W	868 (1A)	1000	AT232	2100			
			2. TERRAIN	304903.00N/0962400.00W	440 (400)		AS1500	1900			
INTERMEDIATE	ZAKBU	HOPAL	4. TOWER (48-014064)	304325.79N/0962333.14W	779 (1A)	500	AT821	2100			
			5. TERRAIN	304836.00N/0962405.00W	430 (400)		AS1500	1900			
FINAL: LPV	HOPAL	RW16	6. BUILDING (48-028007)	303559.69N/0962151.70W	353 (1A)	34:1		571/250			
FINAL: LNAV/VNAV	HOPAL	RW16	7. TOWER (48-028013)	303612.70N/0962216.39W	475 (1A)	161	XP1	637/316			
FINAL: LNAV	HOPAL	JEMON/2.00 NM TO RW16	8. TOWER (48-001775)	303925.00N/0962259.00W	670 (2C)	250	RA52 DG20	1000			
FINAL: LNAV STEPDOWN	JEMON/2.00 NM TO RW16	RW16	9. ANTENNA (48-081527)	303754.49N/0962128.55W	576 (1A)	250		840			
2. PROCEDURE TURN											
3. MISSED APPROACH	MAP:	DA / DA / RW16	JOTAD			ASC		2000			
	ELEV:	384/475/740		10. AAO	303048.00N/0961924.00W	542 (4E)	1000	1600			
				11. TERRAIN	303048.00N/0961924.00W	342 (300)	AS1500	1800			
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.									
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	539	12. TOWER (48-001495)	303553.00N/0962011.00W	487 (4D)	300	XP23 AC50	860
CATEGORY B	1.5 NM		450		559	13. BLDG (48-005711)	303634.00N/0962029.00W	564 (1A)	300		880
CATEGORY C	1.7 NM		450		679	14. TOWER (48-002331)	303747.73N/0962034.31W	684 (2A)	300		1000
CATEGORY D	2.3 NM		550		859	15. TOWER (48-000033)	303902.00N/0962058.00W	823 (4D)	300	AC50	1180
CATEGORY E	4.5 NM		550		859	15. TOWER (48-000033)	303902.00N/0962058.00W	823 (4D)	300	AC50	1180
5. MINIMUM SAFE ALTITUDES				PRIMARY NAVAID: RW16							
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A		
360-360	TWR (48-004538)	095/17.4	1982 (5D)	3000							
CITY AND STATE		ELEVATION: 321		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION			
COLLEGE STATION, TX		AIRPORT NAME: EASTERWOOD FIELD		RNAV		RNAV (GPS) RWY 16, AMDT 1B		ASW 19		QUALITY CHECKED	

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. ALL INTERMEDIATE SEGMENTS USE SAME CONTROLLING OBSTACLE'S/TERRAIN. STEPDOWN OBSTACLE LOCATED IN SECONDARY, FULL ROC APPLIED. BACKUP ALTIMETER SETTING NOTES: NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CALDWELL ALTIMETER SETTING AND INCREASE ALL DA 52 FEET AND ALL MDA 60 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 SM, LNAV CAT C/D/E VISIBILITY TO 1 5/8 SM, AND CIRCLING CAT C VISIBILITY TO 3 SM. VDP AND BARO-VNAV NA WHEN USING CALDWELL ALTIMETER SETTING. ALTERNAT MINIMUMS NA. "VISUAL PORTION OF FINAL" PENETRATIONS: 34:1 353 BLDG (48-028007) 303559.69N/0962151.70W (1.22) VGSI: 3.00/TCH 51 CRITICAL TEMPERATURES: CRITICAL LOW :-3C (+27F) CRITICAL HIGH :+54C (+130F) ACT :-3C APT ISA :+14.36C CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2012-2016). CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 1424 HIGH TEMP 1663. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.82NM CAT C: 2.85NM CAT D: 3.73NM CAT E: 4.66NM NO ADDITIONAL AIRSPACE REQUIRED. RASS PRESSURE PATTERNS THE SAME KCLL 320, KRWW 391 RA = 51.57. XP1: INCREASED TO MAINTAIN 316 HAT XP23: MAINTAIN 860 MDA AT FPT REQUEST. VEGETATION HEIGHT USED 75 FEET PER HIGHEST ESTIMATED AGL SURVEYED TREE. <div>QUALITY 19 CHECKED</div>																			
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																					
ZHU ARTCC IAH APP CON CLL TOWER						N W S		OTHER: ASOS												SOURCE:KCLL / KRWW									
						F A A														DISTANCE: 0 / 18.13									
						A / C														HOURS REMOTE OPERATION: 0/YES / 24/YES									
SATISFACTORY ON:																													
X		V H F		X		U H F														H F		LOCATION: KCLL				ADJUSTMENT: 0 / 52			
4. MONITOR STATUS		PRIMARY NAVAID:																											
		MONITOR POINT:																											
		HRS OPTN:		CAT 1																									
				CAT 3																									
5. APPROACH & RUNWAY LIGHTING				ALS																									
				(S) SALS																									
		X		MALSR 34 (PCL)																									
		X		HIRL 16 (PCL), 34 (PCL)																									
		X		MIRL 10 (PCL), 28 (PCL)																									
		X		REIL 28 (PCL)																									
				TDZ																									
				C/LINE																									
X		OTHER (SPECIFY) VASI-4L 10, 28 VASI-4R 16																											
6. RUNWAY MARKINGS		BASIC BSC-G 22; -F 04																											
		ALL WEATHER PIR-G 16, 34																											
		INSTRUMENT NPI-G 10, 28																											
7. RUNWAY VISUAL RANGE		APPROACH																											
		MIDFIELD																											
		ROLL OUT																											
8. GLIDE PATH		GP ANGLE: 3.00								ELEV RWY THRESHOLD:320.6																			
		DISTANCE FROM RWY:								ELEV GP ANTENNA:																			
										THRESHOLD CROSSING HEIGHT:51.0																			
9. FINAL APPROACH COURSE AIMING				X		RUNWAY THRESHOLD														FT. FROM THRESHOLD									
				X		ON CENTERLINE														FT. FROM CENTERLINE									
10. WAIVERS: NONE																													
PART D - PREPARED BY: HERMAN C. ROGERS										DATE: 09/05/2017																			
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5432																			