

**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> OCH	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> NACOGDOCHES	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 343	<u>TDZE</u> 343	<u>SUPERSEDED</u> RNAV (GPS) RWY 18	<u>DATED</u> 11/03/2022	<u>MAG VAR</u> 1E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2030
				<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>
LFK VORTAC		DRBOB		TF	FO	1.00	359.18	35.27	3000
PIPES	IAF	DRBOB	NOPT	TF	FB	1.00	175.41	25.93	3000
DRBOB	IF/IAF	LUJMU		TF	FB	1.00	177.49	5.00	2000
LUJMU	FAF	ORIW	MAP	TF	FO	0.30	177.18	4.75	
ORIW	MAP	743 MSL		CA			177.18		
743 MSL		WAJGU		DF	FO	1.00			2400

MISSED APPROACH

MAP:

LNAV: ORIW

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2400 DIRECT WAJGU AND HOLD, CONTINUE CLIMB-IN-HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- HOLD N DRBOB, RT, 177.49 INBOUND, 3000 IN LIEU OF PT (IAF), MAX 6000.
- FAC:** 177.18 **FAF:** LUJMU **DIST FAF TO MAP:** 4.75 **DIST FAF TO THLD:** 5.00
- MIN ALT:** DRBOB 3000, LUJMU 2000
- DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:**
- MIN GP INCPT:** **GP ALT AT FAF:** **OM:** **MM:** **IM:**
- GP ANGLE:** **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:**
- MSA FROM:** ORIW 3000



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON LFK VORTAC AIRWAY RADIALS 318 CW 082.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LFK ALTIMETER SETTING: INCREASE ALL MDAS 60 FEET AND VISIBILITY CAT C 1/4 SM.

ADDITIONAL FLIGHT DATA:

LJJMU TO ORIWI 3.06/37.
HOLD S, RT, 003.75 INBOUND.
FAS OBST: 719 AAO 313921N/0944224W.
FAC CROSSES RWY C/L EXTENDED 1500 FT FROM THLD.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 6.32 DEGREES.

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												
LNAV MDA	980	1	637	980	1	637	980	1 3/4	637	NA						
CIRCLING	980	1	637	980	1	637	1080	2	737	NA						

CHANGES - REASONS

- MAG VAR AND EPOCH YEAR UPDATED FROM "5E, 1995" TO "1E, 2030" - COMPLIANCE WITH MAGVAR TABLE, FPT REQUEST, AND PENDING AIRNAV DATA.
- TERMINAL ROUTES: LEG PIPES TO DRBOB: UPDATED FB/FO AND CRS FROM "FO, 171.44" TO "FB, 175.41" - IAW 8260.19K 4-6-3.A.(1); MAG VAR UPDATE.
- TERMINAL ROUTES: LEG LFK VORTAC TO DRBOB: UPDATED CRS AND DIST FROM "355.19, 35.28" TO "359.18, 35.27" - MAG VAR UPDATE, UPDATED LFK VORTAC LOCATION IN 2012 AIRNAV DATA.
- TERMINAL ROUTES: LEG DRBOB TO LJJMU: UPDATED CRS FROM "173.49" TO "177.49" - MAG VAR UPDATE.
- TERMINAL ROUTES: LEG LJJMU TO RW18 (MAP): CHANGED "TO" POINT, CRS, AND DIST FROM "RW18, 173.49, 5.00" TO "ORIWI, 177.18, 4.75" - FAC ALIGNMENT WAS TO RWY CENTERLINE WHERE OFFSET REQUIRES INTERCEPT 1500 FT PRIOR TO RWY PER 8260.58C 3-2-2.A.(2), CRS AND DIST UPDATED ACCORDINGLY ALONG WITH MAG VAR UPDATE; NAMED MAP EST IAW 8260.19K 2-10-4.A.
- TERMINAL ROUTES: LEG RW18 TO 743 MSL: CHANGED "FROM" POINT AND CRS FROM "RW18, 173.49" TO "ORIWI, 177.18" - 8260.58C 3-2-2.A.(2), 8260.19K 2-10-4.A., MAG VAR UPDATE.
- MISSED APPROACH: MAP UPDATED FROM "RW18" TO "ORIWI" - 8260.58C 3-2-2.A.(2), 8260.19K 2-10-4.A., MAG VAR UPDATE.
- MISSED APPROACH: ADDED ", CONTINUE CLIMB-IN-HOLD" TO INSTRUCTIONS - C-I-H REQUIRED PER 8260.3G 16-7-3.
- PROFILE LINE 2: HOLDING CRS ADJUSTED FROM "173.49" TO "177.49" - MAG VAR UPDATE, GROUND TRACK REMAINS UNCHANGED.
- PROFILE LINE 2: MAX ALTITUDE UPDATED FROM "12000" TO "6000" - ALIGNED WITH OTHER EXISTING PATTERN PER ATC/FPT DIRECTION.
- PROFILE LINE 3: FAC AND DIST FAF TO MAP UPDATED FROM "173.49, 5.00" TO "177.18, 4.75" - 8260.58C 3-2-2.A.(2), 8260.19K 2-10-4.A., MAG VAR UPDATE.
- PROFILE LINE 7: ADDED "20:1: IS NOT CLEAR" - 20:1 IS NOT CLEAR; IAW 8260.19K 8-6-7.G.(3)(A).
- PROFILE LINE 8: UPDATED MSA CENTER POINT FROM "RW18" TO "ORIWI" - IAW 8260.19K 8-6-7.H.(1) AND 8260.3G 2-3-2.B.(2).
- NOTES: UPDATED REMOTE ALTIMETER NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LUFKIN ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND VISIBILITY LNAV CAT C AND CIRCLING CAT C 1/4 SM" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LFK ALTIMETER SETTING: INCREASE ALL MDAS 60 FEET AND VISIBILITY CAT C 1/4 SM." - 8260.19K 8-6-12.N.(1)(A).
- ADDITIONAL FLIGHT DATA: REMOVED "CHART PROFILE VIEW NOTE: VISUAL SEGMENT - OBSTACLES" - DID NOT FIND RECORD OF WHAT CAUSED THE NOTE AND IN LIEU OF REDESIGNING PROCEDURE IAW 8260.19K 8-6-11.O.(2). AND 8260.3G 2-6-4.A.(2), NOTE REMOVED AND REVALIDATION REQUESTED FROM FLIGHT CHECK.
- ADDITIONAL FLIGHT DATA: ADDED "LJJMU TO ORIWI 3.06/37" - IAW 8260.19K 8-6-11.O.(1).
- ADDITIONAL FLIGHT DATA: MISSED HOLDING CRS ADJUSTED FROM "359.75" TO "003.75" - MAG VAR UPDATE, GROUND TRACK REMAINS UNCHANGED.
- ADDITIONAL FLIGHT DATA: FAS OBSTACLE UPDATED FROM "712 AAO 313921N/0944218W" TO "719 AAO 313921N/0944224W" - UPDATED OBST EVALUATION AREA FROM FAC ALIGNMENT AND CRITERIA DIFFERENCES; NEW DIGITAL ELEVATION MODEL.
- ADDITIONAL FLIGHT DATA: ADDED "FAC CROSSES RWY C/L EXTENDED 1500 FT FROM THLD" - NEW INTERCEPT IAW 8260.58C 3-2-2.A.(2); NOTE IAW 8260.19K 8-6-11.G.(2).
- ADDITIONAL FLIGHT DATA: UPDATED OFFSET ANGLE NOTE FROM "6.00" TO "6.32" DEGREES - OFFSET INCREASED DUE TO FAC AND MAP ALIGNMENT.



AIRPORT ID
OCH

PROCEDURE NAME
RNAV (GPS) RWY 18

ORIGINAL/AMENDMENT
1

CITY
NACOGDOCHES

STATE
TX

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

OTHER: ZHU, ZFW, CXO FSS, AMGR

FLIGHT CHECKED BY

COLTON CROWDER

Digitally signed by

CASIMIR L TABAKA

Nov 18, 2025

OFFICE

AJF

DATE

11/13/2025

DEVELOPED BY

CASIMIR L. TABAKA (COLIN CAMPBELL)

Digitally signed by

CASIMIR L TABAKA

Nov 18, 2025

OFFICE

AJV-A432

DATE

08/26/2025

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

CASIMIR L TABAKA

Nov 18, 2025

OFFICE

AJV-A432

DATE

TITLE

MANAGER



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u> OCH	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 18	<u>AMDT NO.</u> 1	<u>CITY</u> NACOGDOCHES	<u>STATE</u> TX	<u>AIRPORT ELEVATION</u> 343	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

<u>FROM</u> LFK VORTAC	<u>TO</u> DRBOB
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<u>RNP</u> 1.00	<u>DISTANCE</u> 35.27	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-007710)	314230.53N/0944124.15W	940	500	50	5D	1000				AT1060	3000
TERRAIN	314242.00N/0944100.00W	616 (600)								AS1500	2100

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INITIAL

<u>FROM</u> PIPES	<u>TO</u> DRBOB
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<u>RNP</u> 1.00	<u>DISTANCE</u> 25.93	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-003017)	321106.84N/0944825.80W	949	50	20	2C	1000				AT1051	3000
TERRAIN	320457.00N/0943948.00W	620 (600)								AS1500	2100

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



AIRPORT ID
OCH

PROCEDURE NAME
RNAV (GPS) RWY 18

AMDT NO.
1

CITY
NACOGDOCHES

STATE
TX

AIRPORT ELEVATION
343

FACILITY
RNAV

INTERMEDIATE

FROM
DRBOB (IF/IAF)

TO
LUJMU

RNP
1.00

DISTANCE
5.00

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-007710)	314230.53N/0944124.15W	940	500	50	5D	500				AT560	2000
TERRAIN	314242.00N/0944100.00W	616 (600)								AS1000	1600

COMPUTATIONS

ALT **CIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

FINAL: LNAV

FROM
LUJMU

TO
ORIWI

RNP
0.30

DISTANCE
4.75

PAT

MAP
ORIWI

HAT
637

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	313921.00N/0944224.00W	719	215	8	4B	250					980

COMPUTATIONS

ALT **CIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:



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AIRPORT ELEVATION
343

FACILITY
RNAV

CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE (48-038692)	313534.21N/0944135.24W	1.30	637	544	20	5	1B	300		SI	980
CATEGORY B											
TOWER (48-031255)	313622.13N/0944104.23W	1.82	637	555	20	3	1A	300		SI	980
CATEGORY C											
TOWER (48-000210)	313458.44N/0943959.56W	2.85	737	764	50	20	2C	300			1080

CIRCLING REMARKS:

MSA

CENTER **RADIUS**
ORIWI 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (48-013992)	315420.60N/0950505.80W	314	27.0	1917	250	50	4D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZHU ARTCC, CXO FSS, ZFW ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3PT	OCH	24	OCH		Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	LFK	24	LFK	20.74	Y	55

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
OCH 343, LFT 296
RA = 54.3.



PRIMARY NAVAID **MONITOR POINT** **HRS OPERATION** **CAT**

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW18 - MIRL (PCL), REIL (PCL), PAPI-2L	PIR-G	
RW36 - MALSR (PCL), MIRL (PCL), PAPI-2L	PIR-G	

AIRPORT ID
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PROCEDURE NAME
RNAV (GPS) RWY 18

AMDT NO.
1

CITY
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STATE
TX

AIRPORT ELEVATION
343

FACILITY
RNAV

GLIDESLOPE ANGLE

ELEV RWY THRESHOLD

TCH

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE
3.00

TCH
37.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD
ON CENTERLINE

1500FT FROM THRESHOLD
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

CRITICAL TEMPERATURES

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RW18		
20:1	364 NAVAID (48-113659) 313511.52N/0944230.54W (0.79)		
FINAL TYPE	NPA		
20:1	364 NAVAID (48-113659) 313511.52N/0944230.54W (0.79)		
FINAL TYPE	NPA		
34:1	468 TREE (48-038269) 313535.58N/0944226.96W (43.46)	458 TREE (48-038268) 313534.27N/0944227.81W (37.51)	
	470 TREE (48-038267) 313539.82N/0944233.00W (34.11)	438 TREE (48-038753) 313530.81N/0944239.54W (30.11)	
	467 TREE (48-038754) 313540.74N/0944231.15W (28.01)	406 FENCE (48-029926) 313524.33N/0944238.08W (17.01)	
	470 TREE (48-038277) 313547.69N/0944231.18W (10.42)	355 NAVAID (48-029925) 313511.16N/0944233.58W (4.14)	

PENETRATIONS REMARKS:

20:1 PENETRATION: 364 NAVAID (48-113659) IS LIT.

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:



PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VDP NOT ESTABLISHED - 20:1 PENETRATIONS.

MAX VEGETATION 40 FT PER FPT.

PROCEDURE LIMITED TO CATS A-C PER FPT.

TAA NOT DEVELOPED PER ATC REQUEST.

FINAL APPROACH COURSE OFFSET DUE TO 869 MSL TOWER (48-003117) 3.09 NM FROM AER. PROCEDURE WAS DEVELOPED UNDER OLD CRITERIA WITH MUCH WIDER OBSTACLE EVALUATION AREAS AND COULD BE ALIGNED WITH THE RUNWAY WITH COORDINATION WITH FPT.

ORDER 8260.3 CHAPTER 2 APPLIED TO 732 AAO 314021.00N/0944215.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	MAP	TO 1000FT POINT	3.08
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	178.18
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	500
DISTANCE FROM	MAP	TO 1500FT POINT	6.95
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	178.49
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	600

THRESHOLD COORDINATES (IF STR-IN)	313504.64N/0944234.20W
ARP COORDINATES	313439.95N/0944236.40W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 18 DISTANCE 0.41 NM
FAF COORDINATES	314005.19N/0944243.44W
FIX NAME COORDINATES	MAP ORIWI 313519.44N/0944232.84W, IF/IAF DRBOB 314505.73N/0944252.70W

REMARKS

MAP ORIWI: 313519.44N/0944232.84W, IF/IAF DRBOB: 314505.73N/0944252.70W

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (COLIN CAMPBELL)	AJV-A432	08/26/2025	AERONAUTICAL INFORMATION SPECIALIST

