

**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.

AIRPORT ID CFD	PROCEDURE NAME RNAV (GPS) RWY 33	ORIGINAL/AMENDMENT 1C	CITY BRYAN	STATE TX
AIRPORT ELEVATION 367	TDZE 367	SUPERSEDED RNAV (GPS) RWY 33	DATED 11/07/2019	MAG VAR 4E
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 2010
				CANCEL/SUSPEND

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ANABE	IAF	WOTPO		TF	FB	1.00	237.75	6.00	2000
HOBEX	IAF	WOTPO		TF	FB	1.00	057.65	6.00	2000
WOTPO	IF	TEYUP		TF	FB	1.00	327.70	5.93	2000
TEYUP	FAF	OROCE/2.80 NM TO RW33		TF	FB	0.30	327.67	2.20	
OROCE/2.80 NM TO RW33		RW33	MAP	TF	FO	0.30	327.66	2.80	
RW33	MAP	642 MSL		CA			327.66		
642 MSL		NUCIB		DF	FO	1.00			2500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT NUCIB AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT WOTPO
- FAC: 327.67 FAF: TEYUP DIST FAF TO MAP: 5.00 DIST FAF TO THLD: 5.00
- MIN ALT: WOTPO 2000, TEYUP 2000, OROCE/2.80 NM TO RW33 1280
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 275 HAT: 0.74 GS ANT: MM: IM:
- MIN GP INCPT: 2000 GP ALT AT PFAF: TEYUP 2000 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 40.0
- MSA FROM: RW33 3000



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CLL ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CLL ALTIMETER SETTING AND INCREASE LPV AND LNAV/VNAV DA TO 667 FEET; INCREASE ALL MDAS 40 FEET.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 147.60 INBOUND.

CHART FAS OBST: 543 TOWER (48-013014) 304111N/0961833W.

CHART VDP AT 1.27 NM TO RW33.

WAAS CHANNEL # 70603

REFERENCE PATH ID: W33A

LTP HAE: 85.2 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												
LPV DA	642	1	275	642	1	275		NA			NA					
LNAV/VNAV DA	642	1	275	642	1	275		NA			NA					
LNAV MDA	880	1	513	880	1	513		NA			NA					

CHANGES - REASONS

1. PROFILE LINE 4: REMOVED "*" OROCE/2.80 NM TO RW33 1280 - NO LONGER REQUIRED.
2. PROFILE LINE 7: ADDED "20:1 IS CLEAR" - IAW 8260.19K 8-6-7 G.(3).
3. PBN REQUIREMENTS NOTES: UPDATED FROM "RNP APCH" TO "RNP APCH - GPS" - IAW 8250.19K 8-6-8.
4. NOTES: UPDATED FROM "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - IAW 8260.19K 8-6-10.
5. NOTES: REMOVED "*LNAV" - NO LONGER REQUIRED.
6. NOTES: UPDATED FROM "CHART NOTE: BARO-VNAV NA" TO "CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CLL ALTIMETER SETTING" - ADDED LOCAL ALTIMETER.
7. NOTES: UPDATED FROM "USE COLLEGE STATION ALTIMETER SETTING; WHEN NOT RECEIVED, USE CALDWELL ALTIMETER SETTING AND INCREASE ALL DA 31 FEET AND ALL MDA 40 FEET" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CLL ALTIMETER SETTING AND INCREASE LPV AND LNAV/VNAV DA TO 667 FEET; INCREASE ALL MDAS 40 FEET" - ADDED LOCAL ALTIMETER.
8. ADDITIONAL FLIGHT DATA: REMOVED "CHART COLLEGE STATION ASOS" - ADDED LOCAL ALTIMETER.
9. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 1.27 NM TO RW33" - ADDED LOCAL ALTIMETER.
10. ADDITIONAL FLIGHT DATA: REMOVED "CHART PLANVIEW NOTE: RADAR REQUIRED" - IAW 8260.19K 8-6-8D.(2)(B).
11. MINIMUMS: UPDATED ALTERNATE FROM "N/A" TO "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE" - ADDED LOCAL ALTIMETER.
12. CRC REMAINDER: UPDATED FROM "CDB38128" TO "EE63A653" - FPAP LAT/LONG UPDATED.



AIRPORT ID
CFD

PROCEDURE NAME
RNAV (GPS) RWY 33

ORIGINAL/AMENDMENT
1C

CITY
BRYAN

STATE
TX

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: ZHU, HOU APP CON, AMGR

FLIGHT CHECKED BY

JUSTUS R BRAY

Digitally signed by

RAKE MCGRAW

Dec 12, 2025

OFFICE

AJF

DATE

12/11/2025

DEVELOPED BY

DANIEL WESTON

Digitally signed by

RAKE MCGRAW

Dec 12, 2025

OFFICE

AJV-A422

DATE

10/14/2025

APPROVED BY

RAKE MCGRAW

Digitally signed by

RAKE MCGRAW

Dec 12, 2025

OFFICE

AJV-A422

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD
OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA

0
0
KCFD
RW33
0
0
W33A
304239.0560N
0961941.9780W
+00852
304357.6440N
0962031.0760W
00040.0
F
03.00
106.75
1528
40.0
50.0

CRC REMAINDER

EE63A653

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K4
+01118
+01118



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

<u>AIRPORT ID</u> CFD	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>AMDT NO.</u> 1C	<u>CITY</u> BRYAN	<u>STATE</u> TX	<u>AIRPORT ELEVATION</u> 367	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL
FROM
ANABE

TO
WOTPO

RNP DISTANCE PAT MAP HAT HMAS
1.00 6.00

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	303527.00N/0960703.00W	542	215	8	4B	1000				AT458	2000
TERRAIN	303209.00N/0961333.00W	328 (300)								AS1500	1800

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL
FROM
HOBEX

TO
WOTPO

RNP DISTANCE PAT MAP HAT HMAS
1.00 6.00

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	303318.00N/0961748.00W	568	215	8	4B	1000				AT432	2000
TERRAIN	303318.00N/0961751.00W	367 (400)								AS1500	1900

COMPUTATIONS

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

SEGMENT REMARKS:



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AIRPORT ELEVATION
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FACILITY
RNAV

INTERMEDIATE

FROM WOTPO **TO** TEYUP

RNP 1.00 **DISTANCE** 5.93 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-009677)	303758.74N/0961628.20W	744	50	20	2C	500				AT756	2000
TERRAIN	303306.00N/0961621.00W	337 (300)								AS1500	1800

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LPV

FROM TEYUP **TO** RW33

RNP 0.30 **DISTANCE** 5.00 **PAT** **MAP** DA **HAT** 275 **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (48-038921)	304236.03N/0961935.09W	400	50	20	2C		34.00:1			AC20 XP25	642

COMPUTATIONS

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

SEGMENT REMARKS:

ADDED LOCAL ALTIMETER ON ORIG-C AMENDMENT, DID NOT LOWER MINIMUMS WHEN REMOVING RA (25). XP TO MAINTAIN PUBLISHED MINS.



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CFD

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RNAV (GPS) RWY 33

AMDT NO.
1C

CITY
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TX

AIRPORT ELEVATION
367

FACILITY
RNAV

FINAL: LNAV/VNAV

FROM
TEYUP **TO**
RW33

RNP 0.30 **DISTANCE** 5.00 **PAT** **MAP** DA **HAT** 275 **HMAS**

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC			XP25	642

COMPUTATIONS

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

SEGMENT REMARKS:

ADDED LOCAL ALTIMETER ON ORIG-C AMENDMENT, DID NOT LOWER MINIMUMS WHEN REMOVING RA (25). XP TO MAINTAIN PUBLISHED MINS.

FINAL: LNAV

FROM
TEYUP **TO**
OROCE/2.80 NM TO RW33

RNP 0.30 **DISTANCE** 2.20 **PAT** **MAP** **HAT** **HMAS**

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (48-003867)	303935.74N/0961656.01W	906	500	50	5D	250				RA40 AC50 DG34	1280

COMPUTATIONS

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

SEGMENT REMARKS:



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AIRPORT ELEVATION
367

FACILITY
RNAV

FINAL: LNAV STEPDOWN

FROM
OROCE/2.80 NM TO RW33

TO
RW33

RNP
0.30

DISTANCE
2.80

PAT

MAP
RW33

HAT
513

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-013014)	304110.70N/0961832.86W	543	500	50	5D	250				AC50 XP37	880

COMPUTATIONS

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

SEGMENT REMARKS:

ADDED LOCAL ALTIMETER ON ORIG-C AMENDMENT, DID NOT LOWER MINIMUMS WHEN REMOVING RA (25). XP TO MAINTAIN PUBLISHED MINS.

MISSED APPROACH: LPV

FROM
DA

TO
NUCIB

RNP
0.30

DISTANCE

PAT

MAP

HAT

HMAS
444

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2500
TOWER (48-176842)	304709.46N/0962043.63W	709	250	50	4D	1000					1800
TERRAIN	305151.00N/0962548.00W	462 (500)								AS1500	2000

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
CFD

PROCEDURE NAME
RNAV (GPS) RWY 33

AMDT NO.
1C

CITY
BRYAN

STATE
TX

AIRPORT ELEVATION
367

FACILITY
RNAV

MISSED APPROACH: LNAV/VNAV

FROM
DA **TO**
NUCIB

RNP 0.30-1.00 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
500

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2500
TOWER (48-176842)	304709.46N/0962043.63W	709	250	50	4D	1000					1800
TERRAIN	305151.00N/0962548.00W	462 (500)								AS1500	2000

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM
RW33 **TO**
NUCIB

RNP 0.30 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
780

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2500
TOWER (48-176842)	304709.46N/0962043.63W	709	250	50	4D	1000					1800
TERRAIN	305151.00N/0962548.00W	462 (500)								AS1500	2000

COMPUTATIONS

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

SEGMENT REMARKS:

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



"VISUAL PORTION OF FINAL" PENETRATIONS

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.
40 FT VEGETATION USED PER FPT.
CAT A/B MINIMUMS ONLY PER FPT.
SEE ATTACHED AIRSPACE LETTER.

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	THLD	TO 1000FT POINT	3.12
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	331.67
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	400
DISTANCE FROM	THLD	TO 1500FT POINT	4.80
WIDTH OF	FEEDER	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FEEDER	SEGMENT CONTAINING 1500FT POINT	331.67
HIGH TERRAIN IN	FEEDER	SEGMENT CONTAINING 1500FT POINT	400

THRESHOLD COORDINATES (IF STR-IN) 304239.06N/0961941.98W
ARP COORDINATES 304256.50N/0961952.90W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 33 DISTANCE 0.33 NM
FAF COORDINATES 303814.23N/0961656.75W
FIX NAME COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
DANIEL WESTON	AJV-A422	10/14/2025	AERONAUTICAL INFORMATION SPECIALIST

