

**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> 51R	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 19	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> MADISONVILLE	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 287	<u>TDZE</u> 287	<u>SUPERSEDED</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>DATED</u> 11/07/2019
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 2E
				<u>EPOCH YEAR</u> 2025
				<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>
STYCK	IAF	HESST		TF	FB	1.00	136.62	3.87	2000
HESST	IF	NALSY		TF	FB	1.00	188.12	5.00	1800
NALSY	FAF	PAGME/2.50 NM TO RW19		TF	FB	0.30	188.09	2.13	
PAGME/2.50 NM TO RW19		RW19	MAP	TF	FO	0.30	188.09	2.50	
RW19	MAP	1500 MSL		CA			188.09		1500
1500 MSL		STYCK		DF	FO	1.00			2100

MISSED APPROACH

MAP:

LNAV: RW19

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2100 DIRECT STYCK AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT**
- SIDE OF COURSE**
- OUTBOUND**
- FT WITHIN**
- MILES OF (IAF)**
- 1. PT**
- 2. PROFILE STARTS AT HESST**
- 3. FAC: 188.09 FAF: NALSY DIST FAF TO MAP: 4.63 DIST FAF TO THLD: 4.63**
- 4. MIN ALT: HESST 2000, NALSY 1800, PAGME/2.50 NM TO RW19 1120**
- 5. DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: MM: IM:**
- 6. MIN GP INCPT: GP ALT AT FAF: 34:1: IS NOT CLEAR 20:1: IS NOT CLEAR TCH: OM:**
- 7. GP ANGLE:**
- 8. MSA FROM: RW19 3000**



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTR: USE UTS ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART UTS ASOS.
HOLD NW, RT, 136.62 INBOUND.
CHART FAS OBST: 410 TOWER (48-192301) 305558N/0955658W.
NASLY TO RW19: 3.00/40.

MINIMUMS:

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

ALTERNATE: NA ☒

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
LNAV MDA	720	1	433	720	1	433		NA			NA				

CHANGES - REASONS

- RUNWAY NUMBER CHANGED FROM RWY 18 TO RWY 19 - UPDATED MAGVAR FROM 7E/1980 TO 2E/2025.
- TERMINAL ROUTES: CHANGED "LOA VORTAC" TO "STYCK" – CO-LOCATED WP, PER ACT REQUEST/FPT CHECKLIST.
- TERMINAL ROUTES: CHANGED ALL INBOUND COURSES BY 5 DEGREES, HESST TO NALSY SEGMENT "183.11" TO 188.12" – UPDATED MAGVAR FROM 7E/1980 TO 2E/2025, FAF MOVED S 22.02 FEET.
- TERMINAL ROUTES: ADDED PAGME STEPDOWN SEGMENT – MITIGATED HIGHER CONTROLLING OBSTACLE, LOWERED MDA TO CURRENTLY PUBLISHED.
- TERMINAL ROUTES: ADDED CA SEGMENT TO 1500 MSL – CURRENT DOCUMENTATION STANDARDS.
- MISSED APPROACH: CHANGED "CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2100 DIRECT LOA VORTAC AND HOLD" TO "CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2100 DIRECT STYCK AND HOLD" - CO-LOCATED WP, PER ACT REQUEST/FPT CHECKLIST.
- PROFILE LINE 3: ADDED "DIST FAF TO MAP: 4.63" - IAW 8260.19J 8-6-7(C)3.
- PROFILE LINE 4: ADDED "PAGME/2.50 NM TO RW19 1120" – LOWERED MDA TO CURRENTLY PUBLISHED.
- PROFILE LINE 7: ADDED "34:1/20:1 IS NOT CLEAR" – NO SURVEY, ASSUMED PENETRATIONS.
- PROFILE LINE 8: CHANGED MSA FROM "RW18 3100" TO RW19 3000" – RUNWAY NUMBER CHANGED, NEW CONTROLLING OBSTACLE.
- PBN REQUIREMENTS: CHANGED "RNP APCH" TO "RNP APCH – GPS" – IAW 8260.19J 8-6-8 D.
- CHANGED "CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" – UPDATED MAGVAR FROM 7E/1980 TO 2E/2025.
- CHANGED "USE HUNTSVILLE MUNI ALTIMETER SETTING" TO "CHART NOTE: USE UTS ALTIMETER SETTING" – IAW 8260.19J 8-6-10E(8).
- ADDITIONAL FLIGHT DATA: CHANGED "CHART HUNTSVILLE ASOS 119.426" TO "CHART UTS ASOS" – PRIMARY ALTIMETER IS REMOTE.
- ADDITIONAL FLIGHT DATA: CHANGED "FAS OBST: 399 TREE 305509/955636" TO "CHART FAS OBST: 410 TOWER (48-192301) 305558N/0955658W" – NEW CONTROLLING OBSTACLE.
- ADDITIONAL FLIGHT DATA: REMOVED "CHART: 442 TREE 305954/955621" – CURRENT DOCUMENTATION STANDARDS.
- ADDITIONAL FLIGHT DATA: REMOVED "FINAL SEGMENT: TF" – NO LONGER REQUIRED.
- ADDITIONAL FLIGHT DATA: CHANGED "NALSY WP TO RW18: 3.00/40" TO "NALSY TO RW19: 3.00/40" – UPDATED MAGVAR, RUNWAY NUMBER.



COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: AMGR, ST AV DIR, ZHU

FLIGHT CHECKED BY

NICHOLAS A VARNER

Digitally signed by

JOSEPH L ZEDER

Sep 10, 2024

OFFICE

FPO

DATE

08/29/2024

DEVELOPED BY

CASIMIR L. TABAKA (ROBERT A. SWINSON)

Digitally signed by

JOSEPH L ZEDER

Sep 10, 2024

OFFICE

AJV-A432

DATE

06/25/2024

APPROVED BY

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Sep 10, 2024

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DATE

TITLE

MANAGER



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
51R	RNAV (GPS) RWY 19	1	MADISONVILLE	TX	287	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM STYCK **TO** HESST

RNP 1.00 **DISTANCE** 3.87 **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 (48-009283)	310641.00N/0955710.00W	822	500	50	5D	1000				AT178	2000
TERRAIN	310448.00N/0955827.00W	416 (400)								AS1500	1900

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM HESST **TO** NALSY

RNP 1.00 **DISTANCE** 5.00 **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 (48-014042)	310253.00N/0955723.00W	731	50	20	2C	500				AT569	1800
TERRAIN	310354.00N/0955739.00W	390 (400)								AS1000	1400

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: LNAV

FROM

NALSY

TO

PAGME/2.50 NM TO RW19

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.13										
<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>
AAO	305954.00N/0955618.00W	538	215	8	4B	250				RA60 DG272	1120

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

PAGME/2.50 NM TO RW19

TO

RW19

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.50		RW19		433						
<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 (48-192301)	305557.95N/0955657.90W	410	20	3	1A	250				RA60	720

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: LNAV

FROM

RW19

TO

STYCK

RNP

0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS

560

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2100
TOWER (48-009283)	310641.00N/0955710.00W	822	500	50	5D	1000					1900
TERRAIN	310448.00N/0955848.00W	426 (400)								AS1500	1900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MSA

CENTER

RW19

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (48-004538)	303316.54N/0960152.39W	189	22.1	1982	500	50	5D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZHU ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	UTS	24	UTS	21.28	Y	60
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
51R 287, UTS 363
RA = 59.7.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW01 - MIRL		NPI-G	
RW19 - MIRL		NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<div>X</div>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<div>X</div>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:

"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.

50 FT VEGETATION USED PER FPT.

34:1, 20:1 ASSUMED PENETRATIONS.

TAA NOT DEVELOPED PER ATC.

VDP NOT DEVELOPED - PRIMARY ALTIMETER IS REMOTE.

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	2.96
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	190.09
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	300
DISTANCE FROM	THLD	TO 1500FT POINT	4.63
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	190.09
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	300

THRESHOLD COORDINATES (IF STR-IN)	305501.81N/0955703.96W
ARP COORDINATES	305446.20N/0955707.20W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 19 DISTANCE 0.26 NM
FAF COORDINATES	305935.73N/0955607.43W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
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