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.

CITY AIRPORT ORIGINAL/AMENDMENT STATE MARTIN MUNI RNAV (GPS) RWY 32 **MARTIN** K9V6 SD 1 **AIRPORT ELEVATION SUPERSEDED ORIGINAL/AMENDMENT MAG VAR EPOCH YEAR TDZE DATED**

3294 RNAV (GPS) RWY 32 ORIG-A 07/21/2016 3295 6E 2020

REQUIRED EFFECTIVE DATE FACILITY COORDINATES OF FACILITIES ACTUAL EFFECTIVE DATE CANCEL SUSPEND RNAV **ROUTINE** 16 AUGUST 2018

PROCEDURE NAME

TAA

FROM	FIX TYPE	<u>TO</u>	FIX TYPE	ALTITUDE	
1. 230/30 CW 050/30	NOPT	USETY	IF/IAF	6000	
2. 050/30 CW 230/30		USETY	IF/IAF	6000	

AIRPORT ID

TERMINAL ROUTES

FROM	FIX TYPE	<u>TO</u>	FIX TYPE	LEG TYPE	FO/FB	RNP	<u>COURSE</u>	DISTANCE	ALTITUDE
USETY	IF/IAF	VUGGI		TF	FB	1.00	320.18	6.10	5000
VUGGI	FAF	JESIP/2.50 NM TO RW32		TF	FB	0.30	320.13	2.78	
JESIP/2.50 NM TO RW32		RW32	MAP	TF	FO	0.30	320.13	2.50	
RW32	MAP	3800 MSL		CA			320.13		3800
3800 MSL		USETY		DF	FO	1.00			6000

MISSED APPROACH

MAP: LPV: DA

LNAV/VNAV: DA LNAV: RW32

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3800 THEN CLIMBING RIGHT TURN TO 6000 DIRECT USETY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



CITY <u>AIRPORT</u> **AIRPORT ID PROCEDURE NAME** ORIGINAL/AMENDMENT **STATE** RNAV (GPS) RWY 32 **MARTIN** SD MARTIN MUNI K9V6

PROFILE:

1. PT **OUTBOUND FT WITHIN** SIDE OF COURSE MILES OF (IAF)

2. HOLD SE USETY, RT, 320.18 INBOUND, 6000 FT. IN LIEU OF PT (IAF), MAX 8000.

3. FAC: 320.13 FAF: VUGGI **DIST FAF TO MAP: 5.28 DIST FAF TO THLD: 5.28**

4. MIN ALT: USETY 6000, VUGGI 5000, JESIP/2.50 NM TO RW32 4100*

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.71

6. MIN GP INCPT: 5000 **GP ALT AT FAF: VUGGI 5000** OM: MM: IM:

7. GP ANGLE: 3.00 **34:1:** IS CLEAR 20:1: IS CLEAR **TCH:** 40.0

8. MSA FROM:

PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH.

NOTES:

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

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON. CHART VDP AT 0.92 NM TO RW32* *LNAV ONLY WAAS CHANNEL #77540 REFERENCE PATH ID: W32A CHART FAS OBST: 3335 TREE 430928N/1014312W.

LTP HAE: 979.3 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT C 800-2 1/2

CATEGORY:	Α		В		С			D			E				
FINAL TYPE	DA/MDA	<u>VIS</u>	HAT/HAA												
LPV DA	3544	1	250	3544	1	250	3544	1	250		NA				
LNAV/VNAV DA	3544	1	250	3544	1	250	3544	1	250		NA				
LNAV MDA	3600	1	306	3600	1	306	3600	1	306		NA				
CIRCLING	3780	1	485	3820	1	525	4060	2 1/2	765		NA				



AIRPORT AIRPORT ID PROCEDURE NAME ORIGINAL/AMENDMENT CITY STATE

MARTIN MUNI K9V6 RNAV (GPS) RWY 32 1 MARTIN SD

CHANGES - REASONS

- 1. INCREASED MISSED APPROACH CLIMB TO ALTITUDE FROM 3700 TO 3800 MINIMUM LENGTH REQUIREMENTS FOR LPV SECTION 1A.
- 2. DECREASED DISTANCE TO THLD FROM 339 HAT: 0.99 TO 250 HAT: 0.71 AND MOVED FROM ADDITIONAL FLIGHT DATA TO LINE 5 LOCAL ALTIMETER ESTABLISHED SINCE LAST AMENDMENT AND CURRENT CRITERIA REQUIREMENT.
- 3. ADDED USETY HIL MAX ALTITUDE 8000 CURRENT CRITERIA REQUIREMENT.
- 4. DECREASED LPV AND LNAV/VNAV ALL CATS DA/HAT FROM 3633/339 TO 3544/250 LOCAL ALTIMETER ESTABLISHED SINCE LAST AMENDMENT.
- 5. DECREASED LPV AND LNAV/VNAV ALL CATS VISIBILITY FROM 1 1/4 TO 1 IAW 8260.3C TABLE 3-3-1.
- 6. DECREASED LNAV ALL CATS MDA/HAT FROM 3680/386 TO 3600/306 LOCAL ALTIMETER ESTABLISHED SINCE LAST AMENDMENT..
- 7. DECREASED LNAV CAT C VISIBILITY FROM 1 1/8 TO 1 IAW 8260.3C TABLE 3-3-1.
- 8. DECREASED CMDA/HAA FOR CIRCLING CAT A FROM 3860/565 TO 3780/465, CIRCLING CAT B FROM 3920/625 TO 3820/525, CIRCLING CAT C FROM 4100/865 TO 4060/825 LOCAL ALTIMETER ESTABLISHED SINCE LAST AMENDMENT.
- 9. INCREASED CAT C VISIBILITY FROM 2 1/4 TO 2 1/2 IAW 8260.3C TABLE 3-3-7.
- 10. REMOVED CHART NOTE: DME/DME RNP-0.3 NA ADDED PBN REQUIREMENT NOTE: RNP APCH.
- 11. REMOVED CHART NOTE "USE PINE RIDGE ALTIMETER SETTING" LOCAL ALTIMETER ESTABLISHED SINCE LAST AMENDMENT.
- 12. CHANGED CHART NOTE "BARO-VNAV NA" TO "BARO-VNAV AND VDP NA WHEN USING PINE RIDGE ALTIMETER SETTING" AND MOVED TO 8260-9 PART C LOCAL ALTIMETER ON WMSCR.
- 13. ADDED CHART VDP AT 0.92 NM TO RW32* TO ADDITIONAL FLIGHT DATA LOCAL ALTIMETER ESTABLISHED SINCE LAST AMENDMENT.
- 14. CHANGED "ALTERNATE NA" TO "STANDARD CAT C 900-2 1/2" LOCAL ALTIMETER ESTABLISHED SINCE LAST AMENDMENT.



COORDINATED WITH: A4A ALPA X	AOPA X	APA 🗌	наі 🗌	NBAA X	OTHER: ZDV, AMGR			Digitally signed by	
FLIGHT CHECKED BY JAMES HAWLEY						<u>OFFICE</u> FICO	DATE 05/14/2018	ROBERT G HAMILTO	N
DEVELOPED BY DUSTIN DAVIDSON			Digitally sig DUSTIN DA Apr 25,	VIDSON		OFFICE AJV-5422	DATE 04/09/2018	• /	
APPROVED BY			• •			<u>OFFICE</u>	<u>DATE</u>	Digitally signed by	<u>TITLE</u>
JULIE MORGAN						AJV-5420	R	OBERT G HAMILTON May 16, 2018	MANAGER

PROCEDURE NAME RNAV (GPS) RWY 32 ORIGINAL/AMENDMENT

<u>CITY</u> MARTIN STATE SD

AIRPORT ID K9V6

AIRPORT MARTIN MUNI AIRPORT AIRPORT ID PROCEDURE NAME ORIGINAL/AMENDMENT CITY STATE
MARTIN MUNI K9V6 RNAV (GPS) RWY 32 1 MARTIN SD

DATA FIELD	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	K9V6
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	430941.1810N
LTP/FTP LONGITUDE	1014231.7900W
LTP/FTP ELLIPSOIDAL HEIGHT	+09793
FPAP LATITUDE	431055.1280N
FPAP LONGITUDE	1014339.7480W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1624
HORIZONTAL ALERT LIMIT (HAL)	40.0

CRC REMAINDER 88D642E4

50.0

ADDITIONAL PATH POINT RECORD INFORMATION

VERTICAL ALERT LIMIT (VAL)

ICAO CODEK3LTP ORTHOMETRIC HEIGHT+09990FPAP ORTHOMETRIC HEIGHT+09990

