

**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 VQS/TJVQ	PROCEDURE NAME RNAV (GPS) RWY 9	ORIGINAL/AMENDMENT 2	CITY ISLA DE VIEQUES	STATE
AIRPORT ELEVATION 49	TDZE 48	SUPERSEDED RNAV (GPS) RWY 9	ORIGINAL/AMENDMENT 1B	DATED 10/23/2008
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	MAG VAR 13W
				EPOCH YEAR 2000
				CANCEL/SUSPEND

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
VEDAS		MIXEE		TF	FO	1.00	344.35	11.73	3000
TUUNA	IAF	MIXEE	NOPT	TF	FB	1.00	073.08	13.27	3000
MIXEE	IF/IAF	PEVOE		TF	FB	1.00	089.65	5.04	2000
PEVOE	FAF	CAVTU/3.29 NM TO RW09		TF	FB	0.30	089.68	2.70	
CAVTU/3.29 NM TO RW09	FAF	RW09	MAP	TF	FO	0.30	089.68	3.29	
RW09	MAP	449 MSL		CA			089.68		
449 MSL		MIXEE		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LNAV: RW09

MISSED APPROACH INSTRUCTIONS:

CLIMBING LEFT TURN TO 3000 DIRECT MIXEE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD W MIXEE, RT, 089.65 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC: 089.68 FAF: PEVOE DIST FAF TO MAP: 5.99 DIST FAF TO THLD: 5.99
- MIN ALT: MIXEE 3000, PEVOE 2000, CAVTU/3.29 NM TO RW09 1140
- 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: RW09 4700

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA S OF RWY 9-27.
 CHART NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART NOTE: USE SJU/TJSJ ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART SJU/TJSJ ASOS-3.

CHART FAS OBST: 616 TREE 180724N/0652921W.
 PEVOE TO RW09: 3.00/46.1.

MINIMUMS:

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

ALTERNATE: NA

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LNAV MDA	880	1	832	880	1 1/4	832		NA			NA				
CIRCLING	880	1 1/4	831	880	1 1/4	831		NA			NA				

CHANGES - REASONS

1. WHOLE PROCEDURE: CHANGED FIX DESCRIPTION FROM CAVTU/2.60 NM TO MUNGE TO CAVTU/3.29 NM TO RW09. - MAP MUNGE NO LONGER NEEDED AND MOVED CAVTU TO BE ON 3.00 GPA.
2. TERMINAL ROUTES: CHANGED MIXEE-PEVOE DIST FROM 5.00 TO 5.04, ADDED PEVOE-CAVTU AND CAVTU-RW09, AND CHANGED MUNGE TO RW09. - MOVED FAF AND SDF TO BE ON 3.00 GPA, IAW 8260.19J, AND MAP MUNGE NO LONGER NEEDED.
3. MAP: CHANGED FROM MUNGE TO RW09. - MAP MUNGE NO LONGER NEEDED.
4. PROFILE: LINE 1: ADDED "MAX 6000", LINE 3; CHANGED DIST FAF TO MAP/THLD FROM 6.03 TO 5.99, LINE 7; CHANGED 34:1 FROM CLEAR TO IS NOT CLEAR AND ADDED 20:1 IS NOT CLEAR, AND LINE 8; CHANGED FROM MUNGE 4800 TO RW09 4700. - IAW 8260.19J, MOVED FAF TO BE ON 3.00 GPA, ASSUMED VISUAL PENETRATIONS DUE NO SURVEY, AND MAP MUNGE NO LONGER NEEDED.
5. PBN REQUIREMENTS NOTE: ADDED RNP APCH - GPS. - IAW 8260.19J.
6. NOTES: ADDED HELICOPTER VIS NOTE, REMOVED DME/DME NOTE, AND CHANGED NOTE FROM "USE LUIS MUNOZ MARIN INTL ALTIMETER SETTING" TO "USE SJU/TJSJ ALTIMETER SETTING". - ASSUMED VISUAL PENETRATIONS DUE NO SURVEY, NO LONGER REQUIRED, AND IAW 8260.19J.
7. NOTES: ADDED PROCEDURE NA AT NIGHT. - NO SURVEY; ASSUMED VISUAL PENETRATIONS.
8. ADDITIONAL FLIGHT DATA: CHANGED FAS OBST FROM "530 TREE 180653N/653138W" TO "616 TREE 180724N/0652921W", CHANGED FROM "CAVTU TO RW09: 3.23/30" TO "PEVOE TO RW09: 3.00/46.1", AND REMOVED 1016 TREE, ROUTE TYPE DESCRIPTION, AND APPROACH TYE QUSLIFIER. - NEW EVAL COMPLETED WITH NEW OBST AND IAW 8260.19J.
9. ADDITIONAL FLIGHT DATA: ADDED CHART SJU/TJSJ ASOS-3. - IAW 8260.19J.
10. MINS: CHANGED CIRCLING CAT A/B FROM 1140/1091 TO 880/831 AND CAT B VIS FROM 1 1/2SM TO 1 1/4SM. - NEW EVAL COMPLETED WITH NEW OBST AND IAW 8260.3E.

AIRPORT ID
VQS/TJVQ

PROCEDURE NAME
RNAV (GPS) RWY 9

ORIGINAL/AMENDMENT
2

CITY
ISLA DE VIEQUES

STATE

COORDINATED WITH:

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

OTHER: ZSU CERAP, ATA

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

ERIC N SUSKI (ANDRE TUCKER)

Digitally signed by

ERIC N SUSKI

Jul 25, 2024

OFFICE

AJV-A431

DATE

06/12/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by

ERIC N SUSKI

Jul 25, 2024

OFFICE

AJV-A430

DATE

10/31/2024

TITLE

MANAGER

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

<u>AIRPORT ID</u> VQS/TJVQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9	<u>AMDT NO.</u> 2	<u>CITY</u> ISLA DE VIEQUES	<u>STATE</u>	<u>AIRPORT ELEVATION</u> 49	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

<u>FROM</u> VEDAS	<u>TO</u> MIXEE
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<u>RNP</u> 1.00	<u>DISTANCE</u> 11.73	<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
SHIP	180000.00N/0654021.00W	280	50	20	2C	1000				AT1720	3000
WATER	180000.00N/0654021.00W	0								AS1500	1500

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> TUUNA	<u>TO</u> MIXEE
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<u>RNP</u> 1.00	<u>DISTANCE</u> 13.27	<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
AAO	180142.00N/0655209.00W	1923	215	8	4B	1000					3000
TERRAIN	180142.00N/0655209.00W	1723 (1700)								AS1000	2700

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
VQS/TJVQ

PROCEDURE NAME
RNAV (GPS) RWY 9

AMDT NO.
2

CITY
ISLA DE VIEQUES

STATE

AIRPORT ELEVATION
49

FACILITY
RNAV

INTERMEDIATE

FROM
MIXEE (IF/IAF)

TO
PEVOE

RNP
1.00

DISTANCE
5.04

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
SHIP	180724.00N/0654142.00W	280	50	20	2C	500				AT1220	2000
WATER	180724.00N/0654142.00W	0								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM
PEVOE

TO
CAVTU/3.29 NM TO RW09

RNP
0.30

DISTANCE
2.70

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	180651.00N/0653315.00W	309	215	8	4B	250				RA86 DG495	1140

COMPUTATIONS

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

SEGMENT REMARKS:

AIRPORT ID
VQS/TJVQ

PROCEDURE NAME
RNAV (GPS) RWY 9

AMDT NO.
2

CITY
ISLA DE VIEQUES

STATE

AIRPORT ELEVATION
49

FACILITY
RNAV

FINAL: LNAV STEPDOWN

FROM
CAVTU/3.29 NM TO RW09

TO
RW09

RNP
0.30

DISTANCE
3.29

PAT

MAP
RW09

HAT
832

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	180724.00N/0652921.00W	616	215	8	4B	250				SA-75 RA86	880

COMPUTATIONS

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

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM
MIXEE

TO
P-5

RNP

DISTANCE

PAT
P-5

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	180127.00N/0655130.00W	1277	215	8	4B	1000				AT723	3000
TERRAIN	180127.00N/0655130.00W	1077 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:

AIRPORT ID
VQS/TJVQ

PROCEDURE NAME
RNAV (GPS) RWY 9

AMDT NO.
2

CITY
ISLA DE VIEQUES

STATE

AIRPORT ELEVATION
49

FACILITY
RNAV

MISSED APPROACH: LNAV

FROM
RW09 **TO**
MIXEE

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
694

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
AAO	180536.00N/0653303.00W	1178	215	8	4B	1000					2200
TERRAIN	180536.00N/0653303.00W	978 (1000)								AS1500	2500

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE	180815.00N/0652839.00W	1.30	831	317	215	8	4B	300		SI/RA86	880
CATEGORY B											
TREE	180815.00N/0652839.00W	1.81	831	317	215	8	4B	300		SI/RA86	880

CIRCLING REMARKS:

MSA

CENTER RW09 **RADIUS** 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	181621.00N/0654948.00W	307	20.7	3698	215	8	4B	1000			4700

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

AIRPORT ID
VQS/TJVQ

PROCEDURE NAME
RNAV (GPS) RWY 9

AMDT NO.
2

CITY
ISLA DE VIEQUES

STATE

AIRPORT ELEVATION
49

FACILITY
RNAV

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZSU ARTCC

WX SERVICE
ASOS

LOCATION
SJU/TJSJ

HRS OPERATION
24

ALTIMETER SOURCE
SJU/TJSJ

DISTANCE
34.27

SERVICE-A
Y

ADJUSTMENTS
86

BACK-UP WX SERVICE

LOCATION

HRS OPERATION

ALTIMETER SOURCE

DISTANCE

SERVICE-A

ADJUSTMENTS

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
VQS/TJVQ 49, SJU/TJSJ 4
RA = 85.7.

PRIMARY NAVAID

MONITOR POINT

HRS OPERATION

CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW09 - MIRL, PAPI-4L		
RW27 - MIRL	BSC-G	

GLIDESLOPE ANGLE

ELEV RWY THRESHOLD

TCH

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE

TCH

3.00

46.1

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE 896

ON CENTERLINE

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

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:

AIRPORT ID
VQS/TJVQ

PROCEDURE NAME
RNAV (GPS) RWY 9

AMDT NO.
2

CITY
ISLA DE VIEQUES

STATE

AIRPORT ELEVATION
49

FACILITY
RNAV

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VDP NOT ESTABLISHED - REMOTE PRIMARY ALTIMETER. NO SURVEY. 20:1 PENETRATIONS ASSUMED.

CIRCLING NA S OF RWY 9-27 DUE TO TERRAIN.

PROCEDURE NA AT NIGHT. NO SURVEY. VISUAL SURFACE PENETRATIONS ASSUMED.
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	THLD	TO 1000FT POINT	3.99
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	076.68
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	400
DISTANCE FROM	THLD	TO 1500FT POINT	5.79
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	076.68
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	400

THRESHOLD COORDINATES (IF STR-IN) 180802.46N/0652949.68W
ARP COORDINATES 180805.32N/0652937.02W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 27 DISTANCE 0.35 NM
FAF COORDINATES 180639.45N/0653556.75W
FIX NAME COORDINATES

REMARKS

THLD DISPLACED 896FT, ACTUAL COORDINATES: 180800.42N/0652958.72W

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
ERIC N SUSKI (ANDRE TUCKER)	AJV-A431	06/12/2024	AERONAUTICAL INFORMATION SPECIALIST