

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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
SNS	RNAV (GPS) Y RWY 31	2	SALINAS	CA	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
84	82	RNAV (GPS) Y RWY 31	05/19/2022	13E	2020
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>	
RNAV			ROUTINE		

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>
RANCK		EFGON		TF	FB	1.00	198.05	10.13	6000
SISGY	IAF	WABUB		TF	FB	1.00	001.03	9.44	6000
EFGON	IAF	WABUB		TF	FB	1.00	243.38	7.80	6000
WABUB	IF	ACIYO		TF	FB	1.00	302.15	5.00	3700
ACIYO		GIPVY		TF	FB	1.00	302.11	3.53	3300
GIPVY	FAF	HEPIK/2.98 NM TO RW31		TF	FB	0.30	314.89	6.97	
HEPIK/2.98 NM TO RW31		RW31	MAP	TF	FO	0.30	314.89	2.98	
RW31	MAP	600 MSL		CA			314.89		600
600 MSL		MARNA		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 600, THEN CLIMBING LEFT TURN TO 3000 DIRECT MARNA AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- PROFILE STARTS AT WABUB
- FAC: 314.89 FAF: GIPVY DIST FAF TO MAP: 9.95 DIST FAF TO THLD: 9.95
- MIN ALT: WABUB 6000, ACIYO 3700, GIPVY 3300, HEPIK/2.98 NM TO RW31 1080
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: MM: IM:
- MIN GP INCPT: GP ALT AT FAF: 34:1: IS CLEAR 20:1: IS CLEAR TCH: OM:
- GP ANGLE: 34:1: IS CLEAR 20:1: IS CLEAR TCH: OM:
- MSA FROM: RW31 6300

QUALITY
21
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RANCK ON V87 EAST BOUND AND T333 NORTHWEST BOUND.
CHART NOTE: CIRCLING NA FOR CAT C NE OF RWY 13 AND N OF RWY 26. CIRCLING NA FOR CAT D NE OF RWY 13-31.

ADDITIONAL FLIGHT DATA:

GPIVY TO RW31: 3.00/49.9.
HOLD W, RT, 099.00 INBOUND.
CHART FAS OBST: 198 TREE (06-286210) 363946N/1213529W.
437 AAO 363004N/1213023W, 299 AAO 363700N/1213318W.
CHART VDP AT 1.00 NM TO RW31.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 1600-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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	460	2400	378	460	2400	378	460	3500	378	460	3500	378			
CIRCLING	540	1	456	540	1	456	800	2	716	1620	3	1536			

CHANGES - REASONS

1. TERMINAL ROUTES: RAISED WABUB TO ACIYO MINIMUM ALTITUDE FROM 3600 TO 3700 – TO MITIGATE PRECIPITOUS TERRAIN BASED ON OBSTACLE EVALUATION IN TARGETS WITH MAP STUDY.
2. MISSED APPROACH: CHANGED MISSED APPROACH INSTRUCTION FROM “CLIMB TO 600 THEN CLIMBING LEFT TURN TO 4800 DIRECT MARN AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4800” TO CLIMB TO 600, THEN CLIMBING RIGHT TURN TO 3000 DIRECT MARN AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000 – MISSED APPROACH ALTITUDE LOWERED AND HOLD DIRECTION CHANGED TO MAXIMIZE SAFETY AND REDUCE ATC WORKLOAD.
3. PROFILE LINE 4: CHANGED MINIMUM ALTITUDE AT ACIYO FROM 3600 TO 3700 - TO MITIGATE TERRAIN, IAW 8260.19I, 8-6-7 (D).
4. NOTES: CHANGED CHART NOTE FROM “CIRCLING NA FOR CATS C AND D NE OF RWY 13 AND N OF RWY 26” TO “CIRCLING NA FOR CAT C NE OF RWY 13 AND N OF RWY 26 AND CIRCLING NA FOR CAT D NE OF RWY 13-31” – CIRCLING RESTRICTION UPDATED TO MITIGATE STEEP RISING TERRAIN, 1437 FT AAO, ~ 4.1 NM, ENE OF THE AIRPORT.
5. UPDATED AND RELOCATED BACKUP ALTIMETER AND ASSOCIATED NOTES TO 8260-9 IN GENERAL REMARKS - FOR CONTINGENCY PURPOSES IAW 8260.19I, 8-6-9 (F)(4).
6. ADDITIONAL FLIGHT DATA: CHANGED HOLD INFORMATION FROM “HOLD E, RT, 276.00 INBOUND” TO “HOLD W, RT, 099.00 INBOUND” – MISSED HOLDING DIRECTION CHANGED TO ENHANCE SAFETY AND REDUCE ATC WORKLOAD.
7. ADDITIONAL FLIGHT DATA: UPDATED CHART NOTE FROM “CHART FAS OBST: 205 TREE (06-091560) 363948N/1213527W” TO “CHART FAS OBST: 198 TREE (06-286210) 363946N/1213529W” - IAW 8260.19I, 8-6-10 (C), ANNOTATED NEW OBSTACLES RESULTING NEW TARGETS EVALUATION WITH 3DEP SOFTWARE.
8. ADDITIONAL FLIGHT DATA: UPDATED 7:1 OBSTACLE FROM “410 AAO 363004N/1213023W, 280 AAO 363659N/1213318W” TO “437 AAO 363004N/1213023W, 299 AAO 363700N/1213318W” - NEW TARGETS EVALUATION WITH 3DEP SOFTWARE.
9. ADDITIONAL FLIGHT DATA: UPDATED VDP NOTE FROM “CHART VDP AT 0.94 NM TO RW31” TO “CHART VDP AT 1.00 NM TO RW31” – DUE TO INCREASE IN MDA/HAT FROM 440/358 TO 460/378.
10. MINIMUMS: AMENDED LNAV ALL CATS MDA/HAT FROM 440/358 TO 460/378 – TO CLEAR ACTIVE NOTAM FDC 3/1095.
11. MINIMUMS: AMENDED LNAV CAT C/D VISIBILITY FROM RVR 3000 TO RVR 3500 – TO CLEAR ACTIVE NOTAM FDC 3/1095.
12. MINIMUMS: AMENDED CIRCLING CAT C MDA/HAA FROM 780/696 TO 800/716 – TO CLEAR ACTIVE NOTAM FDC 3/1095.



COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

NORCAL APP CON, SNS ATCT, ZOA, AMGR

FLIGHT CHECKED BY

TROY E DEVINE

Digitally signed by

ERIC N SUSKI

Apr 01, 2024

OFFICE

FPO

DATE

03/29/2024

DEVELOPED BY

PARNELL PRASSADA

Digitally signed by

PARNELL R PRASSADA

Jan 20, 2024

OFFICE

AJV-A431

DATE

09/26/2023

APPROVED BY

BEV L BORDY

Digitally signed by

ERIC N SUSKI

Apr 01, 2024

OFFICE

AJV-A430

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>
SNS	RNAV (GPS) Y RWY 31	2	SALINAS	CA	84	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM RANCK **TO** EFGON

RNP 1.00 **DISTANCE** 10.13 **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>
AAO	363524.00N/1210342.00W	3636	215	8	4B	2000				AT364	6000
TERRAIN	362651.00N/1211145.00W	3297 (3300)								AS1500	4800

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM SISGY **TO** WABUB

RNP 1.00 **DISTANCE** 9.44 **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>
AAO	362151.00N/1212512.00W	4105	215	8	4B	1000				PR380 AT515	6000
TERRAIN	362151.00N/1212515.00W	3904 (3900)								AS1500	5400

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
21
CHECKED

INITIAL

FROM

EFGON

TO

WABUB

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	7.80										
<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	362651.00N/1211145.00W	3498	215	8	4B	1000				PR330 AT1172	6000
TERRAIN	362606.00N/1211203.00W	2165 (2200)								AS1500	3700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

WABUB

TO

ACIYO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	5.00										
<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	362309.00N/1212533.00W	3012	215	8	4B	500				SA-163 PR320	3700
TERRAIN	362418.00N/1212530.00W	1171 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE: LNAV STEPDOWN

FROM

ACIYO

TO

GIPVY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	3.53										
<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	362730.00N/1212954.00W	1969	215	8	4B	500				SA-575 PR320 AT1086	3300
TERRAIN	362712.00N/1212818.00W	649 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

GIPVY

TO

HEPIK/2.98 NM TO RW31

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
0.30	6.97										
<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	363533.00N/1213221.00W	318	50	20	2C	250				RA60 XL198 PR150 DG104	1080

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV STEPDOWN

FROM

HEPIK/2.98 NM TO RW31

TO

RW31

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.98		RW31		378						
<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>
TREE (06-286210)	363946.47N/1213528.67W	198	20	3	1A	250					460

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW31

TO

MARNA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30-1.00							360				
<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				3000
AAO	364321.00N/1213727.00W	338	215	8	4B	1000					1400
TERRAIN	364142.00N/1214530.00W	180 (200)								AS1500	1700

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											
TOWER (06-028434)	363912.63N/1213731.56W	1.30	456	223	20	3	1A	300			540
CATEGORY B											
TREE (06-102787)	363913.21N/1213409.94W	1.81	456	233	20	3	1A	300			540
CATEGORY C											
ANTENNA (06-286172)	363937.78N/1213227.69W	2.84	716	491	20	3	1A	300			800
CATEGORY D											
AAO	363645.00N/1213948.00W	3.75	1536	676	215	8	4B	300			1620

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW31	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	361839.00N/1213406.00W	163	20.8	5256	215	8	4B	1000			6300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

NORCAL APP CON, SNS TOWER, ZOA ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	SNS	24	SNS	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	MRY	24	MRY	12.49	Y	53

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KSNS 84, KMRY 257
RA = 52.8.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW08 - MIRL (PCL), VASI-2L	NPI-G	
RW26 - REIL (PCL), MIRL (PCL), VASI-2L	NPI-G	
RW13 - REIL (PCL), HIRL (PCL), VASI-4L	PIR-G	ROLL OUT
RW31 - MALSR (PCL), HIRL (PCL), PAPI-2L (PCL)	PIR-G	APPROACH

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
					3.00	59.0

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.

45 FT VEGETATION PER FPT.

TAA NOT DEVELOPED PER ATC REQUEST.

CONTNGENCY NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MONTEREY ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D TO RVR 4000 AND CIRCLING VISIBILITY CAT C 1/4 SM. FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO RVR 5500. VDP NA WHEN USING MONTEREY RGNL ALTIMETER SETTING.

ORDER 8260.3 CHAPTER 2 APPLIED TO 437 AAO 363004.03N/1213023.17W, 299 AAO 363700.00N/1213318.00W.

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	THLD	TO 1000FT POINT	4.58
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	327.89
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	THLD	TO 1500FT POINT	6.55
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	327.89
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	100

THRESHOLD COORDINATES (IF STR-IN) 363926.62N/1213604.49W

ARP COORDINATES 363944.68N/1213625.75W

RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 8 DISTANCE 0.55 NM

FAF COORDINATES 363100.56N/1212930.14W

FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

NAME

PARNELL PRASSADA

OFFICE

AJV-A431

DATE

09/26/2023

TITLE



AIRPORT ID
SNS

PROCEDURE NAME
RNAV (GPS) Y RWY 31

AMDT NO.
2

CITY
SALINAS

STATE
CA

AIRPORT ELEVATION
84

FACILITY
RNAV

