

**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 NUQ	PROCEDURE NAME RNAV (GPS) RWY 32R	ORIGINAL/AMENDMENT 1A	CITY MOUNTAIN VIEW	STATE CA
AIRPORT ELEVATION 37	TDZE 31	SUPERSEDED RNAV (GPS) RWY 32R	DATED 01/27/2022	EPOCH YEAR 1980
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	CANCEL/SUSPEND

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZAPEP	IAF	AGAPE		TF	FB	1.00	321.81	3.69	5200
AGAPE	IF	RIROC		TF	FB	1.00	321.81	3.56	4400
RIROC		ORZOS		TF	FB	1.00	321.78	2.52	3600
ORZOS		JULUD		TF	FB	1.00	321.77	1.88	3000
JULUD		EBIYI		TF	FB	1.00	321.76	2.87	2100
EBIYI	FAF	NUNLE/2.17 NM TO RW32R		TF	FB	0.30	321.75	4.14	
NUNLE/2.17 NM TO RW32R		RW32R	MAP	TF	FO	0.30	321.75	2.17	
RW32R	MAP	437 MSL		CA			321.75		
437 MSL		PEYIC		DF	FO	1.00			3200

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW32R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3200 DIRECT PEYIC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- PROFILE STARTS AT ZAPEP
- FAC: 321.75 FAF: EBIYI DIST FAF TO MAP: 6.32 DIST FAF TO THLD: 6.32
- MIN ALT: ZAPEP 5500, AGAPE 5200, RIROC 4400, ORZOS 3600, JULUD 3000, EBIYI 2100, NUNLE/2.17 NM TO RW32R 780
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 421 HAT: 1.14 GS ANT: MM: IM:
- MIN GP INCPT: 2100 GP ALT AT FAF: EBIYI 2100 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 57.1
- MSA FROM: RW32R 5600



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART NOTE: RWY 32R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR INOPERATIVE ALS INCREASE LPV ALL CATS VISIBILITY TO 1 1/4 SM, LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM AND LNAV CATS A/B TO 1 SM AND CATS C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 141.63 INBOUND.
CHART FAS OBST: 250 BUILDING (06-245386) 372231N/1220154W.
490 AAO 371734N/1220131W.
CHART VDP AT 1.29 NM TO RW32R.
WAAS CHANNEL # 53343
REFERENCE PATH ID: W32B
CHART CIRCLING ICON.
LTP HAE: -23.1 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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
LPV DA	452	3/4	421	452	3/4	421	452	3/4	421	452	3/4	421			
LNAV/VNAV DA	493	1	462	493	1	462	493	1	462	493	1	462			
LNAV MDA	500	3/4	469	500	3/4	469	500	1	469	500	1	469			
CIRCLING	540	1	503	600	1	563	620	1 1/2	583	780	2 1/2	743			

CHANGES - REASONS

- INCREASED LPV MINIMUMS FROM DA 231/HAT 200 TO DA 452/HAT 421 - NEW CONTROLLING OBSTACLE: 187 FT TREE (06-275567) 372334.00N/1220202.42 (1A) IN MA SECTION 2.
- INCREASED LPV VISIBILITY FROM 1/2 TO 3/4 - IAW 8260.3E PARA 3-3-2.E(4).
- INCREASED LNAV/VNAV MINIMUMS FROM DA 442/HAT 411 TO DA 493/HAT 462 - NEW CONTROLLING OBSTACLE: 203 FT TREE (06-274453) 372316.05N/1220245.42 (1A).
- INCREASED LNAV/VNAV VISIBILITY FROM 3/4 TO 1 - IAW 8260.3E TABLE 3-3-3.
- CHANGED ALS INOP FROM: FOR INOP ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 SM AND LNAV CAT C/D VISIBILITY TO 1 3/8SM TO FOR INOPERATIVE ALS INCREASE LPV ALL CATS VISIBILITY TO 1 1/4 SM, LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM AND LNAV CATS A/B TO 1 SM AND CATS C/D VISIBILITY TO 1 3/8 SM.- IAW 8260.3E TABLE 3-3-3.
- ADDED 34:1 NOT CLEAR - IAW 82603.19I PARA 8-6-7.G(3).
- ADDED CHART NOTE: RWY 32R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - IAW 8260.19I PARA 8-6-11.K.(3).
- CHANGED FAS OBSTACLE FROM 242 TANK (06-025995) 372243N/1220137W. TO 250 BUILDING (06-245386) 372231N/1220154W - NEW OBSTACLE EVALUATION.
- DELETED 7:1 PENETRATION 250 TREE 372144N/1220226W - NO LONGER VALID.
- CHANGED BARO-VNAV NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 0C OR ABOVE 54C.TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C - ALIGN WITH STANDARD TEMPERATURE DEVIATION.
- CHANGED MISSED APPROACH CA FROM 231 TO 437 - PROVIDE 400 ABOVE AIRPORT ELEVATION.
- FAS DATA CHANGED LTP/FTP LATITUDE CHANGED FROM 372421.7355N TO 372421.7350N, LTP/FTP LONGITUDE CHANGED FROM 1220234.2610W TO 1220234.2530W, VAL CHANGED FROM 35.0 TO 50.0, FPAP LAT/LONG CHANGED FROM 372544.2805N/1220316.6725W TO 372544.2800N/1220316.6635W, CRC REMAINDER CHANGED FROM 44EF263A TO 314DDA87 - LPV HAT CHANGE.
- CHANGED LNAV CAT A/B VISIBILITY FROM 1/2 TO 3/4 = IAW 8260.3E TABLE 3-3-3 AND 3-3-4.



COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZOA, NORCAL APP CON, NUQ ATCT, AMGR

FLIGHT CHECKED BY

WENDI S GIMA

Digitally signed by

ALLAN WILL

Jan 19, 2024

OFFICE

FPO

DATE

01/03/2024

Digitally signed by

DEVELOPED BY

WILLIAM D. MELTON

WILLIAM D MELTON

Oct 11, 2023

OFFICE

AJV-A423

DATE

07/19/2023

Digitally signed by

ALLAN WILL

Jan 19, 2024

OFFICE

AJV-A420

DATE

TITLE

MANAGER

APPROVED BY

MARLON J. ROBINSON

FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

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)

0
0
KNUQ
RW32R
0
0
W32B
372421.7350N
1220234.2530W
-00231
372544.2800N
1220316.6635W
00057.1
F
03.00
106.75
0008
40.0
50.0

CRC REMAINDER

314DDA87

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K2
+00095
+00095



**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>
NUQ	RNAV (GPS) RWY 32R	1A	MOUNTAIN VIEW	CA	37	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM ZAPEP **TO** AGAPE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	3.69				

<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	370630.00N/1215045.00W	3816	164	98	4E	1000				PR107 AT277	5200
TERRAIN	370630.00N/1215045.00W	3615 (3600)								AS1500	5100

COMPUTATIONS

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

SEGMENT REMARKS:

USED PPV PRECITPITOUS TERRAIN VALUE 107.

INTERMEDIATE

FROM AGAPE **TO** RIROC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	3.56				

<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	370948.00N/1215509.18W	3683	50	3	2A	500				PR88	4300
TERRAIN	370921.00N/1215354.00W	3428 (3400)								AS1000	4400

COMPUTATIONS

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

SEGMENT REMARKS:

USED PPV PRECIPITOUS TERRAIN VALUE 88.



INTERMEDIATE: STEPDOWN

FROM

RIROC

TO

ORZOS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	2.52										
<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	371118.08N/1215531.99W	3000	50	20	2C	500				PR88	3600
TERRAIN	371148.00N/1215603.00W	2516 (2500)								AS1000	3500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

USED PPV PRECIPITOUS TERRAIN VALUE 88.

INTERMEDIATE: STEPDOWN

FROM

ORZOS

TO

JULUD

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	1.88										
<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	371313.62N/1220054.68W	2360	50	20	2C	500				PR88 SA-633 AT685	3000
TERRAIN	371324.00N/1215939.00W	751 (800)								AS1000	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

USED PPV PRECIPITOUS TERRAIN VALUE 88.



INTERMEDIATE: STEPDOWN

FROM

JULUD

TO

EBIYI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	2.87				

<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	371347.65N/1220112.44W	1680	50	20	2C	500				PR88 SA-586 AT418	2100
TERRAIN	371515.00N/1220036.00W	426 (400)								AS1000	1400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

USED PPV PRECIPITOUS TERRAIN VALUE 88.

FINAL: LPV

FROM

EBIYI

TO

RW32R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	6.32		DA	421	

<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 (06-275567)	372334.03N/1220202.42W	187	20	3	1A		34.00:1			MA265	452

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM

EBIYI

TO

RW32R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	6.32		DA		462						
<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 (06-275453)	372316.05N/1220245.42W	203	20	3	1A		23.43:1			MA259	493

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

EBIYI

TO

NUNLE/2.17 NM TO RW32R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	4.14										
<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	371858.92N/1220044.89W	410	50	20	2C	250				RA20 XL16 MA84	780

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

NUNLE/2.17 NM TO RW32R

TO

RW32R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.17		RW32R		469						
<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>
BUILDING (06-245386)	372230.84N/1220153.90W	250	50	20	2C	250					500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LPV

FROM

DA

TO

PEYIC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30								186			
<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 (06-275567)	372334.03N/1220202.42W	187	20	3	1A		ASC				3200
AAO	373228.70N/1220457.00W	480	50	20	2C	1000					1500
TERRAIN	373227.00N/1220457.00W	288 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM

DA

TO

PEYIC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30							332				
<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 (06-275453)	372316.05N/1220245.42W	203	20	3	1A		ASC				3200
AAO	373228.70N/1220457.00W	480	50	20	2C	1000					1500
TERRAIN	373227.00N/1220457.00W	288 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: LNAV

FROM

RW32R

TO

PEYIC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30-1.00								400			
<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	373228.70N/1220457.00W	480	50	20	2C		ASC				3200
AAO	371858.92N/1220044.89W	410	50	20	2C	1000					1500
TERRAIN	373227.00N/1220457.00W	288 (300)								AS1500	1800

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											
BLDG (06-055790)	372442.65N/1220312.46W	1.30	503	240	20	3	1A	300			540
CATEGORY B											
POLE (06-056845)	372306.72N/1220410.16W	1.81	563	281	50	20	2C	300			600
CATEGORY C											
TREE (06-275101)	372134.56N/1220310.86W	2.84	583	304	20	10	1B	300			620
CATEGORY D											
AAO	372209.00N/1220624.00W	3.70	743	476	50	20	2C	300			780

CIRCLING REMARKS:

MSA

CENTER

RW32R

RADIUS

25



SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	372054.00N/1213748.00W	084	20.0	4521	164	98	4E	1000			5600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZOA ARTCC, NORCAL APP CON, NUQ TOWER

<u>WX SERVICE</u> AWOS-3PT	<u>LOCATION</u> NUQ	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> NUQ	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> SJC	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> SJC	<u>DISTANCE</u> 6.86	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 18

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KNUQ 37, KSJC 49
RA = 17.6.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>	
RW14R - HIRL (PCL)	NPI-G		
RW32L - HIRL (PCL)	NPI-G		
RW14L - REIL (PCL), HIRL (PCL), PAPI-4L (PCL)	PIR-G		
RW32R - MALSR (PCL), HIRL (PCL), PAPI-4L (PCL)	PIR-G		

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 31.3	<u>TCH</u> 57.1	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 55.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	191
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -15C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -15C	<u>APT ISA</u> +14.93C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2015-2019).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 956 HIGH TEMP 1260.



<u>AIRPORT ID</u> NUQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32R	<u>AMDT NO.</u> 1A	<u>CITY</u> MOUNTAIN VIEW	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 37	<u>FACILITY</u> RNAV
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"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LPV, LNAV/VNAV AND LNAV
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34:1

175 TREE (06-275852) 372343.73N/1220209.54W (22.73)	169 TREE (06-275151) 372340.99N/1220220.24W (18.81)
170 TREE (06-275205) 372342.68N/1220209.86W (15.12)	159 TREE (06-275573) 372342.01N/1220224.07W (15.07)
158 TREE (06-275693) 372346.36N/1220210.11W (13.48)	166 TREE (06-275516) 372342.85N/1220209.60W (11.36)
159 TREE (06-057475) 372344.79N/1220210.49W (10.5)	155 TREE (06-275265) 372346.11N/1220210.28W (9.94)
164 TREE (06-275785) 372340.37N/1220217.35W (9.5)	181 TREE (06-275703) 372333.17N/1220219.60W (8.71)
161 TREE (06-133122) 372343.37N/1220209.54W (7.74)	156 TREE (06-275131) 372344.87N/1220209.05W (6.42)
180 TREE (06-275670) 372333.53N/1220214.84W (4.42)	147 TREE (06-275408) 372341.66N/1220223.97W (2.01)
187 TREE (06-275567) 372334.03N/1220202.42W (1.62)	140 TREE (06-275765) 372347.73N/1220212.58W (1.47)
161 TREE (06-133126) 372340.69N/1220210.53W (1.25)	139 TREE (06-275794) 372345.72N/1220219.44W (1.11)
174 TREE (06-275332) 372333.01N/1220219.26W (0.96)	176 TREE (06-275300) 372332.11N/1220219.53W (0.73)
133 TREE (06-275936) 372346.62N/1220222.70W (0.52)	110 TREE (06-275966) 372356.62N/1220217.15W (0.06)

PENETRATIONS REMARKS:

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

CONTINGENCY NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NORMAN Y MINETA SAN JOSE INTL ALTIMETER SETTING AND INCREASE LPV DA TO 470 FEET; INCREASE LNAV/VNAV DA TO 511 FEET; INCREASE ALL MDAS 20 FEET ; AND CIRCLING VISIBILITY CAT C 1/4 SM.
BARO-VNAV AND VDP NA WHEN USING NORMAN Y MINETA SAN JOSE INTL ALTIMETER SETTING

TAA NOT DEVELOPED PER FPT.

100 FT VEGETATION USED PER FPT.

APPROVAL LETTER:
USE PPV PRECIPITOUS TERRAIN VALUES TO ACHIEVE REQUESTED SEGMENT ALTITUDE.

ORDER 8260.3 CHAPTER 2 APPLIED TO 490 AAO 371734.05N/1220130.52W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> NUQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32R	<u>AMDT NO.</u> 1A	<u>CITY</u> MOUNTAIN VIEW	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 37	<u>FACILITY</u> RNAV
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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	3.49
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	337.75
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	THLD	TO 1500FT POINT	5.52
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.39
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	337.75
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	200

THRESHOLD COORDINATES (IF STR-IN)

372421.74N/1220234.25W

ARP COORDINATES

372458.12N/1220256.87W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 14L DISTANCE 0.81 NM

FAF COORDINATES

371830.56N/1215934.14W

FIX NAME COORDINATES

REMARKS

THLD DISPLACED 191FT, ACTUAL COORDINATES: 372419.98N/1220233.35W

PART E: PREPARED BY

<u>NAME</u> WILLIAM D. MELTON	<u>OFFICE</u> AJV-A423	<u>DATE</u> 07/19/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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