

**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AIRPORT ELEVATION 37	TDZE 31	SUPERSEDED RNAV (GPS) RWY 32R	DATED 01/27/2022	MAG VAR 16E
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 21 MARCH 2024	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 1980
			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
- 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												
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

1. 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.
2. INCREASED LPV VISIBILITY FROM 1/2 TO 3/4 - IAW 8260.3E PARA 3-3-2.E(4).
3. 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).
4. INCREASED LNAV/VNAV VISIBILITY FROM 3/4 TO 1 - IAW 8260.3E TABLE 3-3-3.
5. 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.
6. ADDED 34:1 NOT CLEAR - IAW 82603.19I PARA 8-6-7.G(3).
7. ADDED CHART NOTE: RWY 32R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - IAW 8260.19I PARA 8-6-11.K.(3).
8. CHANGED FAS OBSTACLE FROM 242 TANK (06-025995) 372243N/1220137W. TO 250 BUILDING (06-245386) 372231N/1220154W - NEW OBSTACLE EVALUATION.
9. DELETED 7:1 PENETRATION 250 TREE 372144N/1220226W - NO LONGER VALID.
10. 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.
11. CHANGED MISSED APPROACH CA FROM 231 TO 437 - PROVIDE 400 ABOVE AIRPORT ELEVATION.
12. 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.
13. CHANGED LNAV CAT A/B VISIBILITY FROM 1/2 TO 3/4 = IAW 8260.3E TABLE 3-3-3 AND 3-3-4.



AIRPORT ID
NUQ

PROCEDURE NAME
RNAV (GPS) RWY 32R

ORIGINAL/AMENDMENT
1A

CITY
MOUNTAIN VIEW

STATE
CA

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

WILLIAM D MELTON

Oct 11, 2023

OFFICE

AJV-A423

DATE

07/19/2023

APPROVED BY

MARLON J. ROBINSON

Digitally signed by

ALLAN WILL

Jan 19, 2024

OFFICE

AJV-A420

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KNUQ
RUNWAY	RW32R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32B
LTP/FTP LATITUDE	372421.7350N
LTP/FTP LONGITUDE	1220234.2530W
LTP/FTP ELLIPSOIDAL HEIGHT	-00231
FPAP LATITUDE	372544.2800N
FPAP LONGITUDE	1220316.6635W
THRESHOLD CROSSING HEIGHT (TCH)	00057.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	314DDA87

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00095
FPAP ORTHOMETRIC HEIGHT	+00095

