

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TACAN STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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</u> MOFFETT FEDERAL AFLD	<u>AIRPORT ID</u> KNUQ	<u>PROCEDURE NAME</u> TACAN RWY 32L	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> MOUNTAIN VIEW	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 37	<u>TDZE</u> 36	<u>SUPERSEDED</u> TACAN RWY 32L	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 03/07/2013	<u>MAG VAR</u> 17E
<u>FACILITY</u> NUQ TACAN	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 JUNE 2019	<u>REQUIRED EFFECTIVE DATE</u> 06/20/2019	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1975

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>
HOSNU/NUQ 20.98 DME	IAF	CEVGI/NUQ 17.35 DME					320.75	3.63 (NUQ R-141)	4900
CEVGI/NUQ 17.35 DME	IF	RURSE/NUQ 13.93 DME					320.75	3.42 (NUQ R-141)	4300
RURSE/NUQ 13.93 DME		JOVDA/NUQ 10.15 DME					320.75	3.78 (NUQ R-141)	3100
JOVDA/NUQ 10.15 DME		EKECE/NUQ 8.26 DME					320.75	1.89 (NUQ R-141)	2500

MISSED APPROACH

MAP:
DIYEB/2.18 DME FIX

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 3200 ON NUQ TACAN R-321 TO PEYIC/16.00 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. PROFILE STARTS AT HOSNU
3. **FAC:** 320.75 **FAF:** EKECE/NUQ 8.26 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 6.57
4. **MIN ALT:** HOSNU/NUQ 20.98 DME 5500, CEVGI/NUQ 17.35 DME 4900, RURSE/NUQ 13.93 DME 4300, JOVDA/NUQ 10.15 DME 3100, EKECE/NUQ 8.26 DME 2500, CENIL/NUQ 3.47 DME 720
8. **MSA FROM:** NUQ TACAN 020-110 5600, 110-200 5100, 200-290 4000, 290-020 5000

EQUIPMENT REQUIREMENTS NOTES:

RADAR REQUIRED FOR PROCEDURE ENTRY.

NOTES:

CHART NOTE: RWY 32L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.



ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
EKECE TO RW32L: 3.45/55.
CHART VDP AT 2.96 DME
DISTANCE VDP TO THLD 1.28 NM
CHART FAS OBST: 301 TOWER 372213N/1220224W.
509 AAO 371718N/1220057W.
FAC 319 FT R OF RWY C/L EXTENDED 3000 FT FROM THLD.
HOLD NW, RT, 140.90 INBOUND

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT D 800-2 1/2, CAT E 1000-3, NA WHEN TOWER CLOSED.

CATEGORY:	A			B			C			D			E		
	FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS									
S-32L	560	1	524	560	1	524	560	1 1/2	524	560	1 1/2	524	560	1 1/2	524
CIRCLING	560	1	523	600	1	563	620	1 1/2	583	780	2 1/2	743	940	3	903

CHANGES - REASONS

1. UPDATED TERMINAL ROUTES FIX HOSNU FROM HOSNU/NUQ 20.00 DME TO HOSNU/NUQ 20.98 DME. - FIX MOVED 0.98 NM SE.
2. UPDATED TERMINAL ROUTES FIX CEVGI FROM CEVGI/NUQ 16.52 DME TO CEVGI/NUQ 17.35 DME. - FIX MOVED 0.83 NM SE.
3. UPDATED TERMINAL ROUTES FIX RURSE FROM RURSE/NUQ 14.29 DME TO RURSE/NUQ 13.93 DME. - FIX MOVED 0.36 NM NW.
4. UPDATED TERMINAL ROUTES FIX JOVDA FROM JOVDA/NUQ 10.83 DME TO JOVDA/NUQ 10.15 DME. - FIX MOVED 0.68 NM NW.
5. UPDATED TERMINAL ROUTES FIX EKECE FROM EKECE/NUQ 8.00 DME TO EKECE/NUQ 8.26 DME. - FIX MOVED 0.26 NM SE.
6. UPDATED TERMINAL ROUTES FROM HOSNU TO CEVGI DISTANCE FROM 3.48 TO 3.63 AND ALTITUDE FROM 4800 TO 4900.- NEW CONTROLLING OBSTACLES.
7. UPDATED TERMINAL ROUTES FROM CEVGI TO RURSE DISTANCE FROM 2.23 TO 3.42 AND ALTITUDE FROM 4100 TO 4300.- NEW CONTROLLING OBSTACLES.
8. UPDATED TERMINAL ROUTES FROM RURSE TO JOVDA DISTANCE FROM 3.46 TO 3.78 AND ALTITUDE FROM 3000 TO 3100.- NEW CONTROLLING OBSTACLES.
9. UPDATED TERMINAL ROUTES FROM JOVDA TO EKECE DISTANCE FROM 2.84 TO 1.89 AND ALTITUDE FROM 2100 TO 2500. - NEW CONTROLLING OBSTACLES.
10. UPDATED AIRPORT ELEVATION FROM 36 TO 37. - NEW SURVEYED INFORMATION.
11. UPDATED LINE 3 DIST FAF TO THLD FROM 6.22 TO 6.57. - FAF WAS MOVED DUE TO ALTITUDE CHANGE AND VDA INCREASE.
12. UPDATED LINE 4 FROM HOSNU 5500, CEVGI 4800, RURSE 4100, JOVDA 3000, EKECE 2100 TO HOSNU 5500, CEVGI 4900, RURSE 4300, JOVDA 3100 EKECE 2500, CENIL/NUQ 3.47 DME 720. - UPDATED ALTITUDES DUE TO OBSTACLES AND DESCENT GRADIENT AND ADDED A STEPDOWN IN FINAL.
13. UPDATED LINE 8 MSA SECTOR 200-290 FROM 4100 TO 4000 AND SECTOR 290-202 FROM 5100 TO 5000. - NEW CONTROLLING OBSTACLE.
14. UPDATED ADDITIONAL FLIGHT DATA HOLDING PATTERN FROM 140.89 INBOUND TO 140.90 INBOUND. - TO MATCH INBOUND COURSE ON INBOUND PROCEDURE.
15. UPDATED ADDITIONAL FLIGHT DATA FAS OBST FROM 349 TREE 371833N/1220118W TO 301 TOWER 372213N/1220224W.- NEW CONTROLLING OBSTACLE.
16. UPDATED 7:1 OBSTACLE FROM CHART 379 TREE 371737N/1220054W TO 509 AAO 371718N/1220057W.- NEW OBSTACLE.
17. ADDED "CHART VDP AT 2.96 DME" AND "DISTANCE VDP TO THLD 1.28 NM" TO ADDITIONAL FLIGHT DATA. - IAW 8260.19H 8-6-10N.
18. ADDED CHART CIRCLING ICON.- IAW 8260.19H 8-6-10T.
19. UPDATED ADDITIONAL FLIGHT DATA "EKECE TO RW32L: 3.01/55" TO "EKECE TO RW32L: 3.45/55".- FPT REQUEST DUE TO TERRAIN IN INTERMEDIATE.
20. UPDATED ADDITIONAL FLIGHT DATA NOTE FAC 311R OF RWY C/L EXTENDED 3,000 FT FROM THLD TO FAC 319 FT R OF RWY C/L EXTENDED 3000 FT FROM THLD. - IAW 8260.19H 8-6-10G(2).
21. REPLACED CHART PLANVIEW NOTE: RADAR REQUIRED TO EQUIPMENT REQUIREMENTS NOTE RADAR REQUIRED FOR PROCEDURE ENTRY. - IAW 8260.19H 8-6-8A(1).
22. UPDATED S-32L MDA/HAT ALL CATS FROM 620/584 TO 560/524 AND CAT D/E VISIBILITY FROM 1 3/4 AND 2 TO 1 1/2.- NEW CONTROLLING OBSTACLES AND NEW STEPDOWN FIX IN FINAL.
23. UPDATED CIRCLING MDA/HAA FROM CAT A-D 620/583 AND CAT E 840/803 TO CAT A 560/523, CAT B 600/563, CAT C 620/583, CAT D 780/743, CAT E 940/903 AND VISIBILITY CAT D FROM 2 TO 2 1/2 AND CAT E FROM 2 3/4 TO 3. - NEW CIRCLING CRITERIA APPLIED.
24. REMOVED NOTE: PROCEDURE NA AT NIGHT.- NO 20:1 PENETRATIONS.
25. UPDATED NOTE FROM HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED TO RWY 32L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. - 20:1 PENETRATION TRIMMED.
26. UPDATED ALTERNATE MINIMUMS FROM NA TO STANDARD - CAT D 800 2 1/2, CAT E 1000-3, NA WHEN TOWER CLOSED. - IAW 8260.19H.



COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ARPT MGR, ZOA, NORCAL APP CON, NUQ ATCT

FLIGHT CHECKED BY

PENDING

OFFICE

DATE

DEVELOPED BY
CHRISTINE BAYSE

Digitally signed by
CHRISTINE BAYSE
Mar 19, 2019

OFFICE
AJV-A432

DATE
02/21/2019

RECOMMENDED BY
PATRICK MULQUEEN

Digitally signed by
WARDELL HENNING
Mar 28, 2019

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AJV-A430

DATE

TITLE
MANAGER

APPROVED BY

OFFICE

DATE

TITLE

