

|   |                              |   |                                     |   |  |
|---|------------------------------|---|-------------------------------------|---|--|
| Flight Procedures Cover Page  | Task Action:<br>FLIGHT CHECK | Task Type:<br>IAP                             | Estimated Chart Date:<br>01/25/2024 | APWS Task ID:<br>69E5D8D9AFAC42939720B811D3F9D6C2 | APWS Project ID:<br>4AF9D05DA7984183B18565982B1EC522 |
| Procedure:<br>RNAV (GPS) RWY 32R AMDT 1A  |                              | Enroute:<br>NO                                | Specialist:<br>Melton, William      |   | Agreement Number:                                    |
| Airport ID:<br>KNUQ   |                              |   | Airport City:<br>MOUNTAIN VIEW      |   | State:<br>CA   |
| Facility ID:  | Facility Type:               | Flight Inspection Remark Type:<br>New FC Slot |                                     |   |  |
| <div>Procedure Comments:<br/>PNOTAM<br/>CLEARs FDC 3/8444.<br/>ACTIVE DATA USED FOR KNUQ.<br/>CONTACT JASON KRETSCHMER (405) 954-4109.<br/>8260-1(S): 1 - WAIVER FOR CAPTURE FIX.</div> <div><div>QUALITY<br/>10<br/>CHECKED</div><div>QUALITY<br/>41<br/>CHECKED</div></div> |                              |   |                                     |   |  |

|   |  |  |                     |   |  |   |  |   |    |
|---|--|--|---------------------|---|--|---|--|---|----|
| FIPC BASIC FORM   |  |  |                     |   |  |   |  |   |    |
| PROCEDURE:<br>RNAV (GPS) RWY 32R AMDT 1A  |  |  |                     | AIRPORT NAME:<br>MOFFETT FEDERAL AIRFIELD |  | AIRPORT ID:<br>KNUQ   |  | SPECIAL CONTROL NO:<br>SG-11-207-23   |    |
| FAC ID: KNUQ32R.01  |  |  | CITY: MOUNTAIN VIEW |   |  | ST: CA  |  | ORIG CHART DATE: 03/21/2024   |    |
| DFL TYPE:<br>PROC/S   |  | THIRD PARTY:<br><input type="checkbox"/> YES |                     | EST. TIME ON SITE:<br>0.4                 |  | REIMB. NUMBER:  |  | PTS TASK ID:<br>69E5D8D9AFAC42939720B811D3F9D6C2  |    |
| PREFLIGHT NOTES   |  |  |                     |   |  |   |  |   |    |
| REVIEWER:   |  |  |                     |   |  | DATE:   |  |   |    |
| COMMENTS:   |  |  |                     |   |  | CHECK ONE:<br><input type="checkbox"/> FLT CK REQ <input type="checkbox"/> NFCR <input type="checkbox"/> REJECT                               |  |   |    |
|   |  |  |                     |   |  |   |  | YES   | NO |
|   |  |  |                     |   |  | CPV COMPLETE?   |  | X   |    |
| PROCEDURE RESULTS   |  |  |                     |   |  |   |  |   |    |
| INSPECTION DATE:<br>01/03/2024  |  | CREW #:<br>VN569                             |                     | N #:<br>N75                               |  | INSTRUMENT PROCEDURE STATUS:<br><input checked="" type="checkbox"/> SAT <input type="checkbox"/> SAT W/CHANGES <input type="checkbox"/> UNSAT |  | ARINC CODING:<br><input checked="" type="checkbox"/> SAT <input type="checkbox"/> SAT/GOLD <input type="checkbox"/> UNSAT |    |
| FLIGHT INSPECTOR SIGNATURE:<br>wendi s gima @ 01/10/2024 14:48  |  |  |                     | PRINTED NAME:<br>GIMA, WENDI SUEMI        |  |   |  | NOTAM INITIATED?<br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                   |    |
| FLIGHT INSPECTOR REMARKS:<br>MOFFETT FEDERAL AIRFIELD (NUQ) MOUNTAIN VIEW, CA RNAV (GPS) RWY 32R, Amdt 1A.<br><br>SAT with Comments: 1-Baro note should read "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C - ALIGN WITH STANDARD TEMPERATURE DEVIATION" 2-Add to Notes "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. "<br><br>RWY Survey SAT. Periodic requirements met.<br>Mins raised, new controlling obstacles. |  |  |                     |   |  |   |  |   |    |
| IN-FLIGHT OBSTACLE REPORT   |  |  |                     |   |  |   |  |   |    |
| OBSTRUCTION ID #:   |  | COORDINATES OR LOCATION:                     |                     | GNSS ALTITUDE (MSL):                      |  | BAROMETRIC ALTITUDE (MSL):  |  | HEIGHT ABOVE GROUND LEVEL:  |    |

| <b>FIPC BASIC FORM</b>  |   |                                  |  |  |   |  |                                   |
|---|---|----------------------------------|--|--|---|--|-----------------------------------|
| <b>PROCEDURE:</b><br>RNAV (GPS) RWY 32R AMDT 1A   |   |                                  | <b>AIRPORT NAME:</b><br>MOFFETT FEDERAL AIRFIELD |  | <b>AIRPORT ID:</b><br>KNUQ  | <b>SPECIAL CONTROL NO:</b><br>SG-11-207-23   |                                   |
| <b>FAC ID:</b> KNUQ32R.01   |   | <b>CITY:</b> MOUNTAIN VIEW       |  |  | <b>ST:</b> CA   | <b>ORIG CHART DATE:</b> 03/21/2024   |                                   |
| <b>DFL TYPE:</b><br>PROC/S  | <b>THIRD PARTY:</b><br><input type="checkbox"/> YES | <b>EST. TIME ON SITE:</b><br>0.4 | <b>REIMB. NUMBER:</b>                            |  | <b>PTS TASK ID:</b><br>69E5D8D9AFAC42939720B811D3F9D6C2   |  |                                   |
| <b>PREFLIGHT NOTES</b>  |   |                                  |  |  |   |  |                                   |
| <b>REVIEWER:</b>  |   |                                  |  |  | <b>DATE:</b>  |  |                                   |
| <b>COMMENTS:</b>  |   |                                  |  |  | <b>CHECK ONE:</b>   |  |                                   |
|   |   |                                  |  |  | <input type="checkbox"/> FLT CK REQ <input type="checkbox"/> NFCR <input type="checkbox"/> REJECT |  |                                   |
|   |   |                                  |  |  |   |  | <b>YES</b>                        |
|   |   |                                  |  |  | <b>CPV COMPLETE?</b>  |  | <b>X</b>                          |
| <b>PROCEDURE RESULTS</b>  |   |                                  |  |  |   |  |                                   |
| <b>INSPECTION DATE:</b><br>01/03/2024   |   | <b>CREW #:</b><br>VN569          | <b>N #:</b><br>N75                               | <b>INSTRUMENT PROCEDURE STATUS:</b><br><input type="checkbox"/> SAT <input checked="" type="checkbox"/> SAT W/CHANGES <input type="checkbox"/> UNSAT |   | <b>ARINC CODING:</b><br><input checked="" type="checkbox"/> SAT <input type="checkbox"/> SAT/GOLD <input type="checkbox"/> UNSAT |                                   |
| <b>FLIGHT INSPECTOR SIGNATURE:</b><br>wendi s gima @ 01/09/2024 15:14   |   |                                  | <b>PRINTED NAME:</b><br>GIMA, WENDI SUEMI        |  |   | <b>NOTAM INITIATED?</b><br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                   |                                   |
| <b>FLIGHT INSPECTOR REMARKS:</b><br>MOFFETT FEDERAL AIRFIELD (NUQ) MOUNTAIN VIEW, CA RNAV (GPS) RWY 32R, Amdt 1A.<br><br>SAT with Changes: 1-Baro note should read "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C - ALIGN WITH STANDARD TEMPERATURE DEVIATION" 2-Add to Notes "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. "<br><br>RWY Survey SAT. Periodic requirements met.<br>Mins raised, new controlling obstacles. |   |                                  |  |  |   |  |                                   |
| <b>IN-FLIGHT OBSTACLE REPORT</b>  |   |                                  |  |  |   |  |                                   |
| <b>OBSTRUCTION ID #:</b>  | <b>COORDINATES OR LOCATION:</b>                     |                                  | <b>GNSS ALTITUDE (MSL):</b>                      |  | <b>BAROMETRIC ALTITUDE (MSL):</b>   |  | <b>HEIGHT ABOVE GROUND LEVEL:</b> |

KNUQ, CA

RNAV (GPS) RWY 32R, AMDT 1A

AFS REWORK

PRB RESULT: RETURN FOR REWORK

COMMENTS:

1. WAIVER: VERIFY THE INTENT IS FOR THIS TO BE A TEMPORARY WAIVER. THIS PROCEDURE DOES NOT MEET THE BLANKET WAIVER REQUIREMENTS. **WAIVER TEXT UPDATED**
2. ADD INFO COPY OF PPV APPROVAL FROM AMENDMENT 1 **INFO COPY ADDED TO SUPPORT FILE**

ADMINISTRATIVE NOTES:

1. 8260-9 MISSED APPROACH LNAV/VNAV: TARGETS DETERMINES 203 TREE (06-275453) IS THE FINAL CONTROLLING OBSTACLE AND IT DOES NOT IMPACT THE MISSED APPROACH – RECOMMEND DELETING MA ADJUSTMENT DOCUMENTATION ON FINAL AND MISSED APPROACH SEGMENTS.
  2. 8260-9 MISSED APPROACH LNAV: TARGETS DETERMINES ASC ON THE MISSED APPROACH AND THE MA LEVEL SURFACE IS 480 AAO 373228.70N/1220457.00W – RECOMMEND CORRECTING LNAV MISSED APPROACH SEGMENT.
- Sherri Hubbard

**1. FLIGHT PROCEDURE IDENTIFICATION:**

Mountain View, CA  
Moffett Federal Field, KNUQ  
RNAV (GPS) RWY 32R

**2. WAIVER REQUIRED AND APPLICABLE STANDARD:**

Request this procedure be developed without a capture fix. Applicable Standard is FAAO 8260.58C, Appendix C.para 2a(1): Establish a capture fix. Construct a TF leg aligned with the FAC that is common to all intermediate segments. The start fix of the leg is designated the capture fix. Alternatively where operationally necessary, the capture fix may be placed on or at the start of an RF leg. The preliminary location of the capture fix may be less than 2 NM but no closer than 1 NM prior to the PFAF.

**3. REASON FOR WAIVER (JUSTIFICATION FOR NONSTANDARD TREATMENT):**

The intent of a capture fix is to ensure aircraft can capture the glide slope when turning on to the final course prior to the PFAF. Flight Standards has stated criteria for development of a capture fix for intermediate segments aligned with the final approach course is currently under review.

**4. EQUIVALENT LEVEL OF SAFETY PROVIDED:**

The intermediate segment for this procedure is 10.82 NM and aligned with the final approach course. There are no turns between the intermediate fix (IF) and the final approach fix (FAF). The altitudes provided at the IF and FAF allow for continuous descent through the intermediate and final segments.

**5. ALTERNATIVE ACTIONS DEEMED NOT FEASIBLE:**

NA

**6. COORDINATION WITH USER ORGANIZATIONS (SPECIFY):**

**7. SUBMITTED BY:**

DATE OFFICE IDENTIFICATION TITLE

**SIGNATURE**

*Digitally signed by*

**MICHAEL GARRITY**

Nov 15, 2023

**8. AFS ACTIONS:**

☐ APPROVED ☐ DISAPPROVED ☐ NOT REQUIRED

**COMMENTS:**

DATE ROUTING SYMBOL SIGNATURE



**INFO ONLY**

# Federal Aviation Administration

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## Memorandum

Date:

To: Mark Steinbicker, Manager, Flight Technologies and Procedures Division  
THRU: Danny E. Hamilton, Manager, Flight Procedure Implementation & Oversight Branch

From: Beverly Bordy, Manager, Instrument Flight Procedures (IFP) Projects Team, AJV-A45

Subject: ACTION: Approval Request

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RNAV (GPS) RWY 32R, Moffett Federal AFD, Mountain View, CA

FAAO 8260.3E, Para 3-2-2b(3). Precipitous Point Value (PPV).

Request a PPV evaluation for the above procedure (see data below). The adjustment provided by the legacy precipitous terrain evaluation prevents achieving the requested segment altitude, which is necessary for traffic deconfliction purposes.

Beginning Point: ZAPEP – 370503.34N/1215242.00W

End Point – AGAPE – 370828.59N/1215426.58W

Segment type: Initial, requested precipitous adjustment is 107'.

Per PPV calculator, PPV Max = 177.

Adjustment value (from 8260.3D Appendix C para 2.b.3 Table C-2):  $0.6 \times 177 = 107'$  PR.

Beginning Point – AGAPE - 370828.59N/1215426.58W

End Point – RIROC – 371146.49N/1215607.49W.

Segment type: Intermediate, requested precipitous adjustment is 88'

Per PPV calculator, PPV Max = 175.

Adjustment value (from 8260.3D Appendix C para 2.b.3 Table C-2):  $0.5 \times 175 = 88'$  PR.

Beginning Point – RIROC – 371146.49N/1215607.49W

End Point – ORZOS – 371406.63N/1215719.08W

Segment type: Intermediate, requested precipitous adjustment is 88'

**INFO ONLY**

Per PPV calculator, PPV Max = 175.

Adjustment value (from 8260.3D Appendix C para 2.b.3 Table C-2):  $0.5 \times 175 = 88'$  PR.

Beginning Point – ORZOS – 371406.63N/1215719.08W

End Point – JULUD – 371551.17N/1215812.54W

Segment type: Intermediate, requested precipitous adjustment is 88'

Per PPV calculator, PPV Max = 175.

Adjustment value (from 8260.3D Appendix C para 2.b.3 Table C-2):  $0.5 \times 175 = 88'$  PR.

Beginning Point – JULUD – 371551.17N/1215812.54W

End Point – EBIYI – 371830.56N/1215934.14W

Segment type: Intermediate, requested precipitous adjustment is 88'

Per PPV calculator, PPV Max = 175.

Adjustment value (from 8260.3D Appendix C para 2.b.3 Table C-2):  $0.5 \times 175 = 88'$  PR.

22307

RNAV (GPS) RWY 32R  
MOFFETT FEDERAL AIRFIELD (NUQ)

**MISSED APPROACH:** Climb to 3200  
direct PEYIC and hold.



MISSD APCH FIX

4 NM

PEYIC

210°

Λ 206

Λ 126

RW32R

209°

250±

324±

NUNLE

2.2 NM to RW32R

322°

(FAF) EBIY

2100

12.9

JULUD

3000

(1.9)

ORZOS

3600

17.5

RIROC

3530

13.9

(IF) AGAPE

5000

322°

(FAF) ZAPEP

2640

Λ 4084

2000

Λ 1863

2457

4400

2502

3951

3460

Λ 1833

453±

2572

Λ 2945±

Λ 1206±

2912

3231

2359

2680






1365

2334

MSA RW32R 2.5 NM

5600

|         |         |
|---------|---------|
| ELEV 37 | TDZE 31 |
|---------|---------|

| 3200  |  | PEYIC   |  | NUNLE<br>2.2 NM to<br>RW32R   |  | EBIYI<br>2100   |  | JULUD                  |  | ORZOS  |  | RIROC       |  | AGAPE  |  | ZAPPEP  |  |
|---|--|---|--|---|--|---|--|------------------------|--|--------|--|-------------|--|--------|--|---|--|
|  |  |  |  |  |  |  |  |                        |  |        |  |             |  |        |  |  |  |
| 1.3   |  | 0.9   |  | 4.1 NM  |  | 2.9 NM  |  | 1.9 NM                 |  | 2.5 NM |  | 3.6 NM      |  | 3.7 NM |  |   |  |
| CATEGORY  |  | A   |  | B   |  | C   |  | D                      |  |        |  |             |  |        |  |   |  |
| LPV DA  |  |   |  | 231-½   |  | 200 (200-½)   |  |                        |  |        |  |             |  |        |  |   |  |
| LNAV/<br>VNAV   |  | DA  |  | 442-¾   |  | 411 (500-¾)   |  |                        |  |        |  |             |  |        |  |   |  |
| LNAV MDA  |  |   |  | 500-½   |  | 469 (500-½)   |  |                        |  | 500-1  |  | 469 (500-1) |  |        |  |   |  |
| CIRCLING  |  | 540-1<br>503 (600-1)  |  | 600-1<br>563 (600-1)  |  | 620-1½<br>583 (600-1½)  |  | 780-2½<br>743 (800-2½) |  |        |  |             |  |        |  |   |  |

RNAV (GPS) RWY 32R

SW-2, 07 SEP 2023 to 05 OCT 2023



|  |                        |                             |                                       |
|--|------------------------|-----------------------------|---------------------------------------|
| WAAS<br>CH <b>53343</b><br><b>W32B</b> | APP CRS<br><b>322°</b> | Rwy Idg<br>TDZE<br>Apt Elev | <b>9006</b><br><b>31</b><br><b>37</b> |
|--|------------------------|-----------------------------|---------------------------------------|

RNAV (GPS) RWY 32R

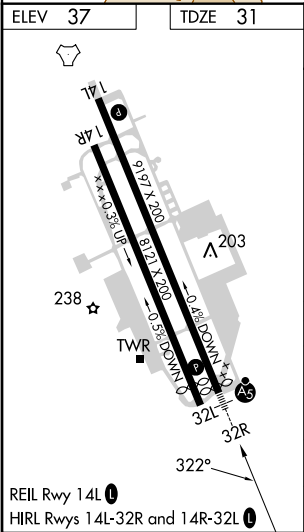
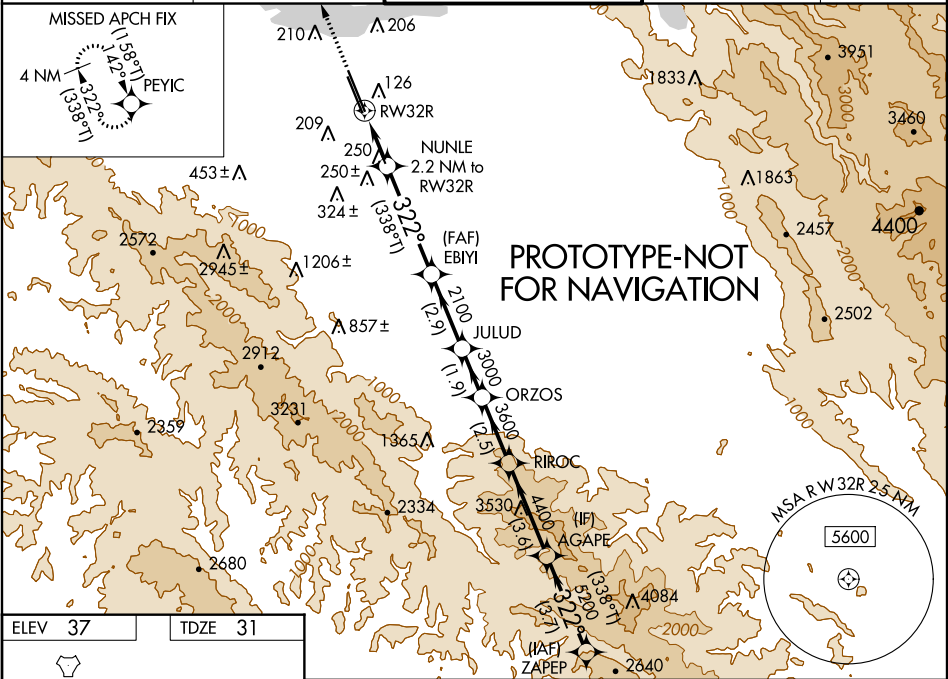
MOFFETT FEDERAL AIRFIELD (NUQ)

RNP APCH-GPS.  
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C or above 54°C.  
⚠ For inop ALS, increase LPV all Cats visibility to 1½ SM, LNAV/VNAV all Cats visibility to 1½ SM and LNAV Cat A/B visibility to 1 SM and Cat C/D visibility to 1½ SM. Baro-VNAV and VDP NA when using Norman Y Mineta San Jose Intl altimeter setting. Rwy 32R helicopter visibility reduction below ¾ SM NA.

MALSRL  
AS

MISSED APPROACH:  
Climb to 3200 direct  
PEYIC and hold.

|                              |                                       |  |                                 |                           |
|------------------------------|---------------------------------------|--|---------------------------------|---------------------------|
| ATIS<br><b>124.175 283.0</b> | NORCAL APP CON<br><b>120.1 290.25</b> | MOFFETT TOWER ★<br><b>119.55 (CTAF) 259.65</b> | GND CON<br><b>121.85 278.95</b> | CLNC DEL<br><b>296.75</b> |
|------------------------------|---------------------------------------|--|---------------------------------|---------------------------|



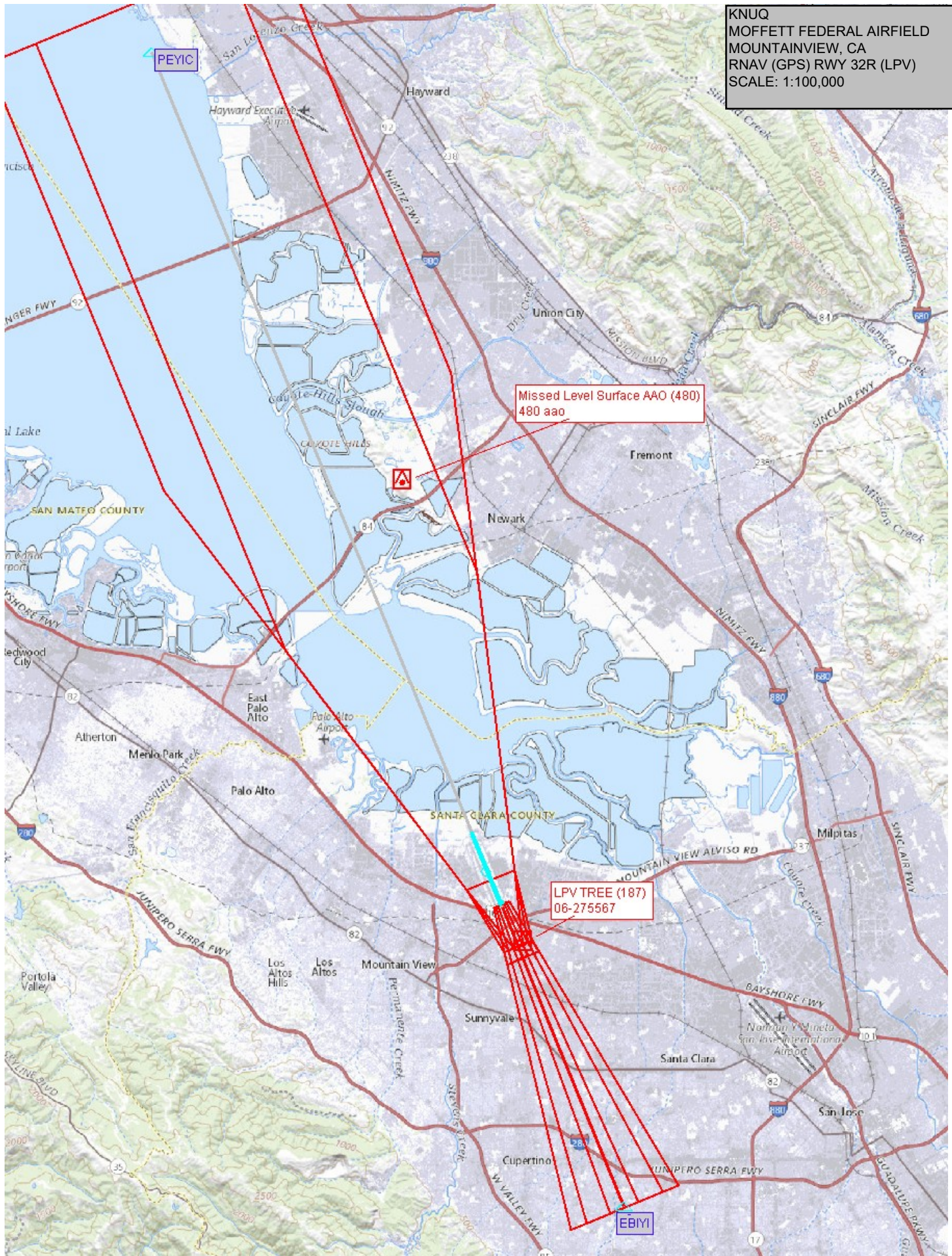
|              |                      |                              |                        |                        |       |       |       |       |      |
|--------------|----------------------|------------------------------|------------------------|------------------------|-------|-------|-------|-------|------|
| 3200         | PEYIC                | NUNLE<br>2.2 NM to<br>RWY32R | EBIYI<br>2100          | JULUD                  | ORZOS | RIROC | AGAPE | ZAPEP | 5500 |
| 3200         | PEYIC                | 1.3 NM to<br>RWY32R          | 780                    | 2100                   | 3000  | 3600  | 4400  | 5200  | 5500 |
| 3200         | PEYIC                | 1.3                          | 0.9                    | 4.1                    | 2.9   | 1.9   | 2.5   | 3.6   | 3.7  |
| CATEGORY     | A                    | B                            | C                      | D                      |       |       |       |       |      |
| LPV DA       | 452-¾                | 421 (500-¾)                  |                        |                        |       |       |       |       |      |
| LNAV/VNAV DA | 493-1                | 462 (500-1)                  |                        |                        |       |       |       |       |      |
| LNAV MDA     | 500-¾                | 469 (500-¾)                  | 500-1                  | 469 (500-1)            |       |       |       |       |      |
| CIRCLING     | 540-1<br>503 (600-1) | 600-1<br>563 (600-1)         | 620-1½<br>583 (600-1½) | 780-2½<br>743 (800-2½) |       |       |       |       |      |



[illegible]

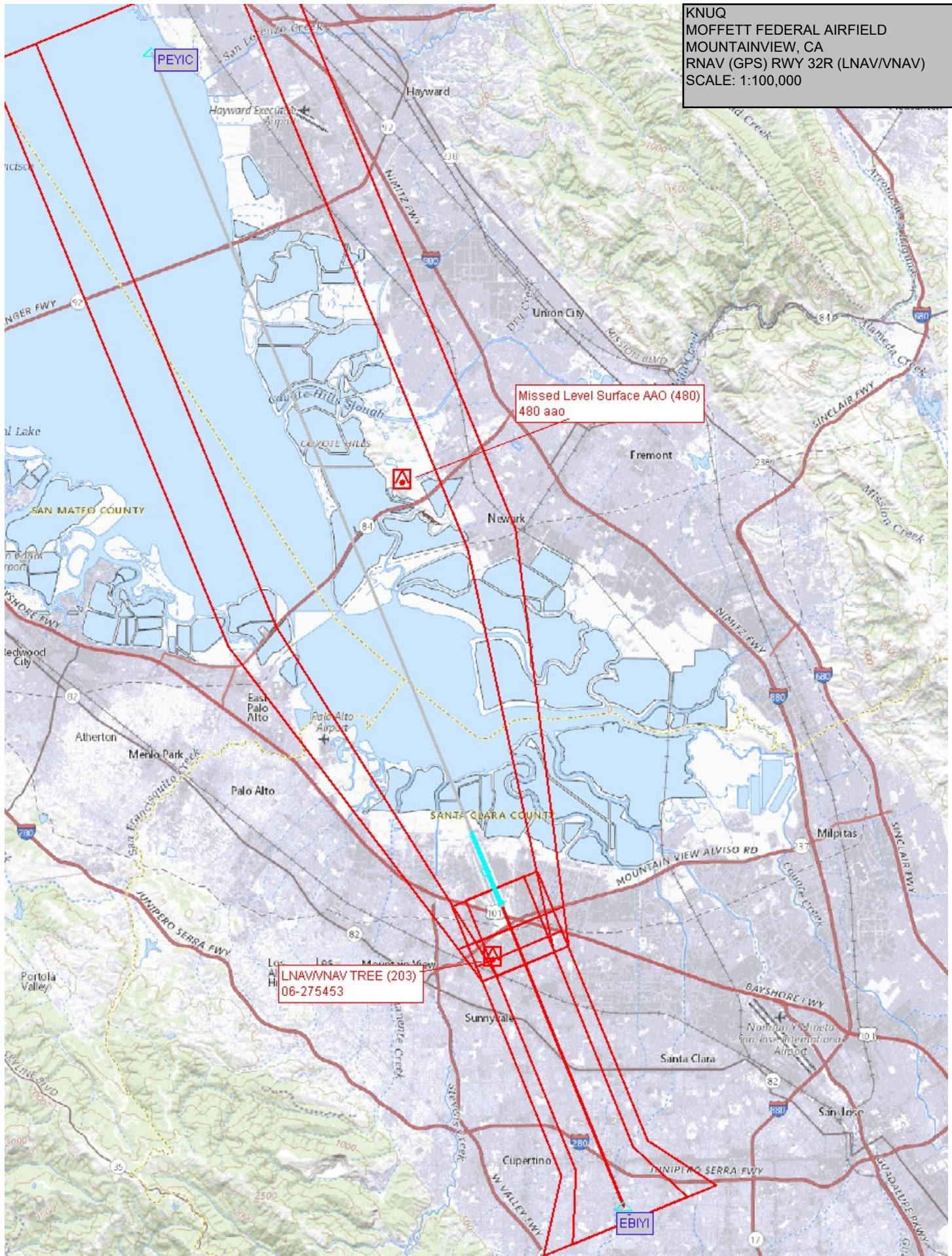


KNUQ  
MOFFETT FEDERAL AIRFIELD  
MOUNTAINVIEW, CA  
RNAV (GPS) RWY 32R (LPV)  
SCALE: 1:100,000





KNUQ  
MOFFETT FEDERAL AIRFIELD  
MOUNTAINVIEW, CA  
RNAV (GPS) RWY 32R (LNAV/VNAV)  
SCALE: 1:100,000



Missed Level Surface AAO (480)  
480 aao

LNAV/VNAV TREE (203)  
06-275453

EBIM



KNUQ  
MOFFETT FEDERAL AIRFIELD  
MOUNTAINVIEW, CA  
RNAV (GPS) RWY 32R (LNAV AND CIRCLING)  
SCALE: 1:100,000

