

**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><br>TCY        | <u>PROCEDURE NAME</u><br>RNAV (GPS) RWY 12 | <u>ORIGINAL/AMENDMENT</u><br>2C              | <u>CITY</u><br>TRACY                      | <u>STATE</u><br>CA        |
| <u>AIRPORT ELEVATION</u><br>194 | <u>TDZE</u><br>193                         | <u>SUPERSEDED</u><br>RNAV (GPS) RWY 12       | <u>DATED</u><br>11/07/2019                | <u>MAG VAR</u><br>15E     |
| <u>FACILITY</u><br>RNAV         | <u>COORDINATES OF FACILITIES</u>           | <u>ACTUAL EFFECTIVE DATE</u><br>11 JUNE 2026 | <u>REQUIRED EFFECTIVE DATE</u><br>ROUTINE | <u>EPOCH YEAR</u><br>2000 |
|                                 |                                            |                                              |                                           | <u>CANCEL/SUSPEND</u>     |

**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> |
|-----------------------|-----------------|-----------------------|-----------------|-----------------|--------------|------------|---------------|-----------------|-----------------|
| SUNOL                 |                 | OYOSO                 |                 | TF              | FO           | 1.00       | 016.79        | 15.54           | 4000            |
| HAIRE                 |                 | OYOSO                 |                 | TF              | FO           | 1.00       | 222.01        | 8.94            | 3100            |
| ALTAM                 | IAF             | OYOSO                 | NOPT            | TF              | FB           | 1.00       | 065.98        | 5.25            | 3100            |
| OYOSO                 | IF/IAF          | JENEG                 |                 | TF              | FB           | 1.00       | 116.42        | 6.60            | 2000            |
| JENEG                 | FAF             | ZOTPI/1.88 NM TO RW12 |                 | TF              | FB           | 0.30       | 116.48        | 3.71            |                 |
| ZOTPI/1.88 NM TO RW12 |                 | RW12                  | MAP             | TF              | FO           | 0.30       | 116.48        | 1.88            |                 |
| RW12                  | MAP             | 700 MSL               |                 | CA              |              |            | 116.48        |                 | 700             |
| 700 MSL               |                 | HAIRE                 |                 | DF              | FO           | 1.00       |               |                 | 3200            |

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW12

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 700 THEN CLIMBING LEFT TURN TO 3200 DIRECT HAIRE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3200.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- |                                                                           |                            |                |                       |                        |         |
|---------------------------------------------------------------------------|----------------------------|----------------|-----------------------|------------------------|---------|
| 1. PT                                                                     | SIDE OF COURSE             | OUTBOUND       | FT WITHIN             | MILES OF               | (IAF)   |
| 2. HOLD NW OYOSO, LT, 116.42 INBOUND, 3100 IN LIEU OF PT (IAF), MAX 6000. |                            |                |                       |                        |         |
| 3. FAC: 116.48                                                            | FAF: JENEG                 |                | DIST FAF TO MAP: 5.59 | DIST FAF TO THLD: 5.59 |         |
| 4. MIN ALT: OYOSO 3100, JENEG 2000, ZOTPI/1.88 NM TO RW12 820             |                            |                |                       |                        |         |
| 5. DIST TO THLD FROM OM:                                                  | MM:                        | IM:            | 150 HAT:              | 250 HAT: 0.69          | GS ANT: |
| 6. MIN GP INCPT: 2000                                                     | GP ALT AT PFAF: JENEG 2000 |                |                       | OM:                    | MM:     |
| 7. GP ANGLE: 3.00                                                         | 34:1: IS NOT CLEAR         | 20:1: IS CLEAR | TCH: 40.8             |                        | IM:     |
| 8. MSA FROM: RW12 5600                                                    |                            |                |                       |                        |         |

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: RWY 12 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART NOTE: CIRCLING NA SW OF RWY 12-30.  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.  
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SCK ALTIMETER SETTING.  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ALTAM ON V334-392 SOUTHBOUND.  
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SCK ALTIMETER SETTING AND INCREASE LPV DA TO 503 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 507 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C 1/8 SM.

**ADDITIONAL FLIGHT DATA:**

HOLD NE, RT, 231.20 INBOUND.  
 CHART FAS OBST: 271 POLE (06-239756) 374105N/1212710W.  
 CHART R-2531.  
 CHART VDP AT 1.00 NM TO RW12.  
 WAAS CHANNEL # 49200  
 REFERENCE PATH ID: W12A  
 LTP HAE: 23 M

**MINIMUMS:**

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

**ALTERNATE:** NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

| <b><u>CATEGORY:</u></b>  | <b><u>A</u></b>      |                   |                       | <b><u>B</u></b>      |                   |                       | <b><u>C</u></b>      |                   |                       | <b><u>D</u></b>      |                   |                       | <b><u>E</u></b>      |                   |                       |
|--------------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|
| <b><u>FINAL TYPE</u></b> | <b><u>DA/MDA</u></b> | <b><u>VIS</u></b> | <b><u>HAT/HAA</u></b> | <b><u>DA/MDA</u></b> | <b><u>VIS</u></b> | <b><u>HAT/HAA</u></b> | <b><u>DA/MDA</u></b> | <b><u>VIS</u></b> | <b><u>HAT/HAA</u></b> | <b><u>DA/MDA</u></b> | <b><u>VIS</u></b> | <b><u>HAT/HAA</u></b> | <b><u>DA/MDA</u></b> | <b><u>VIS</u></b> | <b><u>HAT/HAA</u></b> |
| LPV DA                   | 443                  | 3/4               | 250                   | 443                  | 3/4               | 250                   | 443                  | 3/4               | 250                   |                      | NA                |                       |                      |                   |                       |
| LNAV/VNAV DA             | 447                  | 3/4               | 254                   | 447                  | 3/4               | 254                   | 447                  | 3/4               | 254                   |                      | NA                |                       |                      |                   |                       |
| LNAV MDA                 | 540                  | 1                 | 347                   | 540                  | 1                 | 347                   | 540                  | 1                 | 347                   |                      | NA                |                       |                      |                   |                       |
| CIRCLING                 | 580                  | 1                 | 386                   | 660                  | 1                 | 466                   | 660                  | 1 1/2             | 466                   |                      | NA                |                       |                      |                   |                       |

CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAM AMDTS 2A AND 2B.
2. MINIMUMS: UPDATED LNAV MDA/HAT FROM "520/327" TO "540/347" - CONTROLLING OBSTACLE 271 FT POLE (06-239756) 374104.64N/1212709.62W.
3. CHART NOTE: UPDATED BACKUP ALTIMETER NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE STOCKTON ALTIMETER SETTING: INCREASE ALL DA TO 507 AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDA 60 FEET AND LNAV CAT C VISIBILITY 1/8 SM." TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SCK ALTIMETER SETTING AND INCREASE LPV DA TO 503 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 507 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C 1/8 AM - UPDATED VISIBILITY MINIMUMS CRITERIA.
4. REMOVED CIRCLING ICON - UPDATED CRITERIA.
5. CHART NOTE: CHANGED FROM "RNP APCH" TO "RNP APCH-GPS" - UPDATED CRITERIA.
6. FAS OBSTACLE CHANGED FROM "264 TREE 374107N/1212718W" TO "271 POLE (06-239756) 374105N/1212710W" - LNAV MDA/DA INCREASE.
7. LTP/FTP LAT/LONG CHANGED FROM "374128.1200N/1212645.9340W" TO "374128.1160N/1212645.9360W" - NEW AIRPORT/RUNWAY SURVEY NFDD# 21-107 DTD 6/4/2021.
8. FPAP COORDINATES CHANGED FROM "374028.9650N/1212521.9220W " TO "374028.9650N/1212521.9200W" - NEW AIRPORT/RUNWAY SURVEY NFDD# 21-107 DTD 6/4/2021.
9. CRC REMAINDER CHANGED FROM "4CCE8FE1" TO "37562141" - FPAP AND LTP LAT/LONG CHANGED.
10. CHART NOTE: REMOVED "CIRCLING RWY 30 NA AT NIGHT" - 20:1 PENETRATING OBSTACLE (TREE) REMOVED.
11. MINIMUMS: CIRCLING HAA CAT A CHANGED FROM "387" TO "386" AND CAT B & C FROM "467" TO "466" - AIRPORT ELEVATION INCREASED BY 1 FOOT.
12. AIRPORT ELEVATION CHANGED FROM "193" TO "194" - CURRENT AIRNAV DATA.
13. VDP CHANGED FROM "0.9 NM TO RW12" TO "1.00 NM TO RW12" - LNAV MDA/HAT INCREASED.
14. MINIMUMS: LPV AND LNAV/VNAV VIS CHANGED FROM "7/8" TO "3/4" SM - UPDATED VIS MINIMUMS CRITERIA.
15. MISSED: ADD CIH TO MISSED APPROACH, MISSED APPROACH INSTRUCTION CHANGED FROM "CLIMB TO 700 THEN CLIMBING LEFT TURN TO 3200 DIRECT HAIRE AND HOLD" TO "CLIMB TO 700 THEN CLIMBING LEFT TURN TO 3200 DIRECT HAIRE, CONTINUE CLIMB-IN-HOLD TO 3200 - CALCULATED AIRCRAFT ALTITUDE AT THE MA HOLD FIX WAS BELOW 3200.

COORDINATED WITH:

A4A

ALPA

☒

AOPA

☒

APA

HAI

NBAA

☒

OTHER: ZOA, NORCAL APP CON, APT MGR.

FLIGHT CHECKED BY

JAMES L REINEBOLD

Digitally signed by

ALLAN WILL

Apr 02, 2026

OFFICE

AJF

DATE

03/31/2026

DEVELOPED BY

ALLAN WILL (ANTOINE DAVENPORT)

Digitally signed by

ALLAN WILL

Apr 02, 2026

OFFICE

AJV-A33

DATE

12/11/2025

APPROVED BY

KYLE THOMPSON

Digitally signed by

ALLAN WILL

Apr 02, 2026

OFFICE

AJV-A33

DATE

12/11/2025

TITLE

MANAGER



AIRPORT ID  
TCY

PROCEDURE NAME  
RNAV (GPS) RWY 12

ORIGINAL/AMENDMENT  
2C

CITY  
TRACY

STATE  
CA

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KTCY          |
| RUNWAY                                   | RW12          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W12A          |
| LTP/FTP LATITUDE                         | 374128.1160N  |
| LTP/FTP LONGITUDE                        | 1212645.9360W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00230        |
| FPAP LATITUDE                            | 374028.9650N  |
| FPAP LONGITUDE                           | 1212521.9200W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.8       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1528          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

|               |          |
|---------------|----------|
| CRC REMAINDER | 37562141 |
|---------------|----------|

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00551 |
| FPAP ORTHOMETRIC HEIGHT | +00551 |

