

# RADIO FIX AND HOLDING DATA RECORD

NAME: SAN FRANCISCO VOR/DME STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 373710.15N/1222226.02W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

| FAC | NAME          | IDENT | TYPE    | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC<br>NM FEET | MRA | MAA   |
|-----|---------------|-------|---------|-------|---------|----------|-----|--------------------------|-----|-------|
| 1   | SAN FRANCISCO | SFO   | VOR/DME | VL    |         |          |     |                          |     | 17500 |

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

| PAT | DIR | IDENT | TYPE    | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME DME | HOLDING ALTITUDES<br>MIN MAX | TEMPLATES<br>MIN MAX |
|-----|-----|-------|---------|-------------|----------------|------------------|------------------------|------------------------------|----------------------|
| 1   | W   | SFO   | VOR/DME | 287.00      | 107.00         | R                | 1                      | 4000 14500                   | 6 15                 |
| 2   | W   |       | WP      | 289.00      | 109.00         | R                | 4                      | 4000 6000                    | 5 6                  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1   | 230      | AAO         | 373345.00N/1222851.00W | 2077      | 4E            |
| 2   | 200      | AAO         | 373439.00N/1222636.00W | 1601      | 4E            |

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ASSIGNED FACILITY MAG VAR E17/1975.

## FIX USE:

| USE TYPE | USE TITLE                 | FAC | PAT | AIRPORT IDENT | CITY          | STATE   |
|----------|---------------------------|-----|-----|---------------|---------------|---------|
| DP       | SILENT                    |     |     | OAK           | OAKLAND       | CA (US) |
| DP       | GAP                       |     |     | SFO           | SAN FRANCISCO | CA (US) |
| DP       | MOLEN                     |     |     | SFO           | SAN FRANCISCO | CA (US) |
| DP       | SAN FRANCISCO             |     |     | SFO           | SAN FRANCISCO | CA (US) |
| DP       | TAKE OFF MINS             |     |     | SFO           | SAN FRANCISCO | CA (US) |
| EN ROUTE | V150                      |     |     |               |               | (US)    |
| EN ROUTE | V199                      |     |     |               |               | (US)    |
| EN ROUTE | V25                       |     |     |               |               | (US)    |
| EN ROUTE | V87                       |     |     |               |               | (US)    |
| IAP      | ILS OR LOC RWY 12         |     |     | OAK           | OAKLAND       | CA (US) |
| IAP      | ILS RWY 12 (SA CAT I)     |     |     | OAK           | OAKLAND       | CA (US) |
| IAP      | VOR RWY 10R               |     |     | OAK           | OAKLAND       | CA (US) |
| IAP      | ILS OR LOC RWY 19L        |     |     | SFO           | SAN FRANCISCO | CA (US) |
| IAP      | ILS OR LOC RWY 28L        |     |     | SFO           | SAN FRANCISCO | CA (US) |
| IAP      | ILS OR LOC RWY 28R        |     |     | SFO           | SAN FRANCISCO | CA (US) |
| IAP      | ILS RWY 28L (SA CAT II)   |     |     | SFO           | SAN FRANCISCO | CA (US) |
| IAP      | ILS RWY 28R (CAT II/III)  |     |     | SFO           | SAN FRANCISCO | CA (US) |
| IAP      | ILS RWY 28R (SA CAT I)    |     |     | SFO           | SAN FRANCISCO | CA (US) |
| IAP      | TIPP TOE VISUAL RWY 28L/R |     |     | SFO           | SAN FRANCISCO | CA (US) |
| STAR     | POINT REYES               |     |     | NUQ           | MOUNTAIN VIEW | CA (US) |
| STAR     | POINT REYES               |     |     | PAO           | PALO ALTO     | CA (US) |
| STAR     | POINT REYES               |     |     | SQL           | SAN CARLOS    | CA (US) |
| STAR     | MODESTO                   |     |     | SFO           | SAN FRANCISCO | CA (US) |
| STAR     | POINT REYES               |     |     | SFO           | SAN FRANCISCO | CA (US) |
| STAR     | STINS                     |     |     | SFO           | SAN FRANCISCO | CA (US) |
| STAR     | POINT REYES               |     |     | RHV           | SAN JOSE      | CA (US) |
| STAR     | POINT REYES               |     |     | SJC           | SAN JOSE      | CA (US) |

REQUIRED CHARTING: DP, STAR, IAP, AREA, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19 DATE OF REVISION: 07/09/2026

## REASON FOR REVISION:

1. FIX USE: REMOVED "IAP QUIET BRIDGE VISUAL RWY 28L/R SFO SAN FRANCISCO CA (US)".

|                                   |                  |                  |                       |
|-----------------------------------|------------------|------------------|-----------------------|
| INITIATED BY:                     | DATE:            | ORGANIZATION:    | NAME:                 |
| OFFICE OF PRIMARY RESPONSIBILITY: |                  | AJV-A431         | NAME: DEVON KERCHER   |
| APPROVED BY:                      | DATE: 06/04/2026 | OFFICE: AJV-A431 | NAME: ROBERT HAMILTON |

SIGNATURE:

Digitally signed by  
**ROBERT G HAMILTON**

QUALITY  
21  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: WOODSIDE VOR/DME

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 372333.00N/1221652.69W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

| FAC | NAME     | IDENT | TYPE    | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC<br>NM FEET | MRA | MAA   |
|-----|----------|-------|---------|-------|---------|----------|-----|--------------------------|-----|-------|
| 1   | WOODSIDE | OSI   | VOR/DME | VL    |         |          |     |                          |     | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

| PAT | DIR | IDENT | TYPE    | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME DME | HOLDING ALTITUDES<br>MIN MAX | TEMPLATES<br>MIN MAX |
|-----|-----|-------|---------|-------------|----------------|------------------|------------------------|------------------------------|----------------------|
| 1   | NE  | OSI   | VOR/DME | 047.00      | 227.00         | R                | 4                      | 3800                         | 4                    |
| 2   | SE  | OSI   | VOR/DME | 140.98      | 320.98         | L                | 1                      | 5100                         | 13                   |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1   | 200      | AAO         | 372439.00N/1221830.00W | 2615      | 5E            |
| 2   | 310      | AAO         | 371324.00N/1220536.00W | 3432      | 4E            |

PRECIPITOUS TERRAIN ADDITIONS:

| PAT | SPEED | ADDITION |
|-----|-------|----------|
| 1   | 200   | 112      |
| 2   | 310   | 250      |

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST - TRAFFIC SEPARATION

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

PROCEDURES REQUIRING CLIMB-IN-HOLD:

| PAT | PROCEDURE TITLE          | AIRPORT IDENT | CITY          | STATE   |
|-----|--------------------------|---------------|---------------|---------|
| 2   | HALF MOON BAY (OBSTACLE) | KHAF          | HALF MOON BAY | CA (US) |

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ASSIGNED FACILITY MAGVAR: 17E (1975).

FIX USE:

| USE TYPE    | USE TITLE                   | FAC | PAT | AIRPORT IDENT | CITY          | STATE   |
|-------------|-----------------------------|-----|-----|---------------|---------------|---------|
| SPECIAL IAP | COPTER RNAV (GPS) 17        |     | 1   | 15CA          | PALO ALTO     | CA (US) |
| DP          | HALF MOON BAY (OBSTACLE)    |     | 2   | HAF           | HALF MOON BAY | CA (US) |
| DP          | MONTEREY                    |     |     | MRY           | MONTEREY      | CA (US) |
| DP          | TORO                        |     |     | MRY           | MONTEREY      | CA (US) |
| DP          | WOODSIDE                    |     |     | NUQ           | MOUNTAIN VIEW | CA (US) |
| DP          | OAKLAND                     |     |     | OAK           | OAKLAND       | CA (US) |
| DP          | QUAKE                       |     |     | OAK           | OAKLAND       | CA (US) |
| DP          | SKYLINE                     |     |     | OAK           | OAKLAND       | CA (US) |
| DP          | BASEC                       |     |     | SNS           | SALINAS       | CA (US) |
| DP          | SALINAS                     |     |     | SNS           | SALINAS       | CA (US) |
| DP          | GAP                         |     |     | SFO           | SAN FRANCISCO | CA (US) |
| EN ROUTE    | V25                         |     |     |               |               | (US)    |
| EN ROUTE    | V87                         |     |     |               |               | (US)    |
| IAP         | LOC/DME RWY 28L             |     |     | HWD           | HAYWARD       | CA (US) |
| IAP         | ILS OR LOC RWY 12           |     |     | OAK           | OAKLAND       | CA (US) |
| IAP         | ILS RWY 12 (SA CAT I)       |     |     | OAK           | OAKLAND       | CA (US) |
| IAP         | RNAV (GPS) Y RWY 30         |     |     | SQL           | SAN CARLOS    | CA (US) |
| IAP         | RNAV (GPS) Z RWY 30         |     |     | SQL           | SAN CARLOS    | CA (US) |
| IAP         | ILS OR LOC RWY 19L          |     |     | SFO           | SAN FRANCISCO | CA (US) |
| IAP         | ILS OR LOC RWY 28R          |     |     | SFO           | SAN FRANCISCO | CA (US) |
| IAP         | ILS RWY 28R (CAT II & III)  |     |     | SFO           | SAN FRANCISCO | CA (US) |
| IAP         | ILS RWY 28R (SA CAT I)      |     |     | SFO           | SAN FRANCISCO | CA (US) |
| IAP         | ILS OR LOC RWY 12R          |     |     | SJC           | SAN JOSE      | CA (US) |
| IAP         | ILS OR LOC RWY 30L          |     |     | SJC           | SAN JOSE      | CA (US) |
| IAP         | ILS RWY 30L (SA CAT I & II) |     |     | SJC           | SAN JOSE      | CA (US) |
| STAR        | POINT REYES                 |     |     | NUQ           | MOUNTAIN VIEW | CA (US) |
| STAR        | POINT REYES                 |     |     | PAO           | PALO ALTO     | CA (US) |
| STAR        | POINT REYES                 |     |     | SQL           | SAN CARLOS    | CA (US) |
| STAR        | BIG SUR                     |     |     | SFO           | SAN FRANCISCO | CA (US) |
| STAR        | MODESTO                     |     |     | SFO           | SAN FRANCISCO | CA (US) |
| STAR        | POINT REYES                 |     |     | SFO           | SAN FRANCISCO | CA (US) |
| STAR        | POINT REYES                 |     |     | RHV           | SAN JOSE      | CA (US) |
| STAR        | BRINY                       |     |     | SJC           | SAN JOSE      | CA (US) |
| STAR        | POINT REYES                 |     |     | SJC           | SAN JOSE      | CA (US) |

QUALITY  
21  
CHECKED

**REQUIRED CHARTING:** DP, STAR, MILITARY IAP, IAP, AREA, EN ROUTE LOW, SPECIAL IAP, CONTROLLER LOW

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 29

**DATE OF REVISION:** 07/09/2026

**REASON FOR REVISION:**

1. FIX USE: REMOVED "IAP QUIET BRIDGE VISUAL RWY 28L/R SFO SAN FRANCISCO CA (US)".

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A431

**NAME:** DEVON KERCHER

**APPROVED BY:**

**DATE:** 06/04/2026

**OFFICE:** AJV-A431

**NAME:** ROBERT HAMILTON

**SIGNATURE:**

*Digitally signed by*  
**ROBERT G HAMILTON**  
May 28, 2026

