

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| <u>DP NAME</u> | <u>NUMBER</u> | <u>DP COMPUTER CODE</u> | <u>SUPERSEDED NUMBER</u> | <u>DATED</u> | <u>ACTUAL EFFECTIVE DATE</u> |
|----------------|---------------|-------------------------|--------------------------|--------------|------------------------------|
| MOLEN | NINE | MOLEN9.MOLEN | EIGHT | 09/15/2016 | 27JAN2022 |

| <u>TYPE:</u> | <u>OBSTACLE</u> | <u>COPTER</u> | <u>SID</u> | <u>SPECIAL</u> | <u>RNAV</u> |
|--------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

DP ROUTE DESCRIPTION:

TAKEOFF RWY 10L/R: CLIMBING LEFT TURN TO INTERCEPT SFO R-090 TO CROSS SIPLY 7.00 DME FIX AT OR ABOVE 2500, THEN CLIMBING RIGHT TURN HEADING 233 TO INTERCEPT AND PROCEED ON PYE R-144 TO STINS INT/SFO 21.95 DME, THEN ON SFO VOR/DME R-287 TO MOLEN INT/SFO 40.78 DME. THENCE...

TAKEOFF RWY 19L/R: CLIMBING LEFT TURN HEADING 053 TO INTERCEPT SFO R-090 TO CROSS SIPLY 7.00 DME FIX AT OR ABOVE 2500, THEN CLIMBING RIGHT TURN HEADING 233 TO INTERCEPT AND PROCEED ON PYE R-144 TO STINS INT/SFO VOR/DME 21.95 DME, THEN ON SFO VOR/DME R-287 TO MOLEN INT/SFO 40.78 DME. THENCE ...

TAKEOFF RWY 28L/R: CLIMB ON SFO VOR/DME R-281 TO CROSS WESLA INT/SFO VOR/DME 5.74 DME AT OR ABOVE 1800 THEN CLIMBING RIGHT TURN TO INTERCEPT SFO R-287 TO MOLEN INT/SFO 40.78 DME. THENCE...

.... (TRANSITION). EXPECT CLEARANCE TO FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

| <u>TRANSITION NAME</u> | <u>TRANSITION COMPUTER CODE</u> | <u>FROM FIX/NAVAID</u> | <u>TO FIX/NAVAID</u> | <u>COURSE</u> | <u>DISTANCE</u> | <u>MEA</u> | <u>MOCA</u> | <u>CROSSING ALTITUDE/FIXES</u> |
|------------------------|---------------------------------|-------------------------|----------------------|--------------------|-----------------|------------|-------------|--------------------------------|
| MENDOCINO | MOLEN9.ENI | MOLEN INT/SFO 40.78 DME | ENI VORTAC | 335.99 (ENI R-156) | 63.87 | 6000 | 4600 | |

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: DME REQUIRED.

NOTE: RAPIDLY RISING TERRAIN TO 2000 FT IMMEDIATELY SOUTH OF AIRPORT.

TAKEOFF MINIMUMS:

RWY 10L/R: STANDARD.

RWY 19L/R: STANDARD WITH MINIMUM CLIMB OF 575 FT PER NM TO 2000.

RWY 28L/R: STANDARD WITH MINIMUM CLIMB OF 351 FT PER NM TO 1300.

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:

RWY 19L: 719 FT MSL TREE 373502.00N/1222400.00W, 1249 MSL AAO 373313.86N/1222414.60W.

RWY 19R: 719 FT MSL TREE 373502.00N/1222400.00W, 1249 MSL AAO 373313.86N/1222414.60W.

RWY 28L: 899 FT MSL TREE 373815.50N/1222748.11W, 949 FT MSL AAO 373906.44N/1222821.43W.

RWY 28R: 674 FT MSL TREE 373813.00N/1222644.00W, 949 FT MSL AAO 373906.44N/1222821.43W.

QUALITY
20
CHECKED

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART SAU R-243 & R-153. CHART PYE R-228
CHART: TOP ALTITUDE: ASSIGNED BY ATC.

AIRPORTS SERVED:

| <u>AIRPORT NAME</u> | <u>AIRPORT ID</u> | <u>CITY</u> | <u>STATE</u> |
|---------------------|-------------------|---------------|--------------|
| SAN FRANCISCO INTL | KSFO | SAN FRANCISCO | CA |

COMMUNICATIONS:

ATIS, GND CON, SFO TWR, NORCAL DEP CON

FIXES AND/OR NAVAIDS:

SAU VOR/DME, SFO VOR/DME, PYE VOR/DME

REMARKS:

LETTER OF APPROVAL ON FILE FOR RWY 19L/R CG IN EXCESS OF 500 FT PER NM.
MOLEN NINE AMENDMENT DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.
ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY

Processed IAW Technical Support Group (AJF-17) Memo dated 07/07//2021,
Guidance for Procedural Changes Requiring Flight Inspection/Validation.

Digitally signed by
DONALD H LANIER
Sep 07, 2021

OFFICE DATE

DEVELOPED BY

LIAM DONAHUE

Digitally signed by
LIAM DONAHUE
Sep 01, 2021

OFFICE DATE
AJV-A431 09/01/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by
DONALD H LANIER
Sep 07, 2021

OFFICE DATE TITLE
AJV-A430 MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, JOSHUA APP CON, ZLA

CHANGES - REASONS:

1. CHANGED "CLIMBING RIGHT TURN TO 5000 ON HEADING 233..." TO "CLIMBING RIGHT TURN HEADING 233..." IN DP ROUTE DESCRIPTION FOR RWY 10L/R AND 19L/R. - ATC REQUEST.
2. CHANGED "RIGHT TURN TO INTERCEPT AND PROCEED ON SFO R-287..." TO "CLIMBING RIGHT TURN TO INTERCEPT SFO R-287..." IN DP ROUTE DESCRIPTION FOR RWY 28L/R. - ATC REQUEST.
3. REPLACED TAKEOFF OBSTACLE NOTES WITH "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)." - IAW FAAO 8260.46G APPENDIX D, SECTION 2, PARAGRAPH 7.

