

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EUGEN	NINE	EUGEN9.EUGEN	EIGHT	8/22/13	24 JUL 2014

TYPE: SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 1L/R: CLIMBING LEFT TURN HEADING 333 TO INTERCEPT SFO R-350 TO CROSS SEPDI INT/SFO 4.00 DME AT OR ABOVE 1900, THEN TURN LEFT HEADING 203 TO INTERCEPT SAU R-168 TO ZUPAX INT/SAU 36.14 DME, THEN ON BSR R-309 TO EUGEN INT/BSR 66.99 DME, THENCE...

TAKEOFF RWY 28L/R: CLIMB ON SFO VOR/DME R-281 TO CROSS SENZY INT/SFO VOR/DME 6.00 DME AT OR ABOVE 2500, THEN TURN LEFT ON SAU R-168 TO ZUPAX INT/SAU 36.14 DME, THEN ON BSR R-309 TO EUGEN INT/BSR 66.99 DME, THENCE...

... (TRANSITION) OR (ASSIGNED ROUTE). EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
SHOEY	EUGEN9.SHOEY	EUGEN INT/ BSR 66.99 DME	SHOEY INT/BSR 41.42 DME	128.91 (BSR R-309)	25.56	9000	2700	
BIG SUR	EUGEN9.BSR	EUGEN INT/ BSR 66.99 DME	SHOEY INT/BSR 41.42 DME	128.91 (BSR R-309)	25.56	9000	2700	
		SHOEY INT/ BSR 41.42 DME	BSR VORTAC	128.91 (BSR R-309)	41.42	9000	7300	
SALINAS	EUGEN9.SNS	EUGEN INT/ BSR 66.99 DME	SHOEY INT/BSR 41.42 DME	128.91 (BSR R-309)	25.56	9000	2700	
		SHOEY INT/ BSR 41.42 DME	SNS VORTAC	084.00 (SNS R-264)	26.17	9000	3700	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

TAKEOFF MINIMUMS:

RWY 1L/R: STANDARD WITH MINIMUM CLIMB OF 460 FT PER NM TO 1900.

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

NOTE: PROCEDURE NA FOR USE WITH TACAN AZIMUTH



U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EUGEN	NINE	EUGEN9.EUGEN	EIGHT	8/22/13	24 JUL 2014

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 1L, SHIPS BEGINNING 1646 FT FROM DER, RIGHT AND LEFT OF CENTERLINE, UP TO 150 FT AGL/150 FT MSL.

NOTE: RWY 1R, SHIPS BEGINNING 1173 FT FROM DER, RIGHT AND LEFT OF CENTERLINE, UP TO 150 FT AGL/150 FT MSL.

NOTE: RWY 28L, SIGN 19 FT FROM DER, 500 FT RIGHT OF CENTERLINE, 5 FT AGL/9 FT MSL. OBSTRUCTION LIGHTS ON DME BEGINNING 277 FT FROM DER, 162 FT LEFT OF CENTERLINE, UP TO 16 FT AGL/26 FT MSL. OBSTRUCTION LIGHT ON LOCALIZER BEGINNING 219 FT FROM DER, ON CENTERLINE, UP TO 10 FT AGL/17 FT MSL. MULTIPLE POLES, ELECTRICAL SYSTEM BEGINNING 824 FT FROM DER, 300 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/56 FT MSL. MULTIPLE BUILDINGS, TRANSMISSION TOWERS, TANK AND POLE BEGINNING 1305 FT FROM DER, 370 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/103 FT MSL.

NOTE: RWY 28R, MULTIPLE SIGNS, BEGINNING 23 FT FROM DER, 140 FT RIGHT OF CENTERLINE, UP TO 5 FT AGL/10 FT MSL. TERRAIN BEGINNING 58 FT FROM DER, 146 FT RIGHT OF CENTERLINE, UP TO 10 FT MSL. SIGN, 63 FT FROM DER, 250 FT LEFT OF CENTERLINE, 5 FT AGL/8 FT MSL. TERRAIN BEGINNING 130 FT FROM DER, 235 FT LEFT OF CENTERLINE, UP TO 10 FT MSL. ANTENNA ON BUILDING, OBSTRUCTION LIGHT ON DME, TREE, BEGINNING 556 FT FROM DER, 268 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/43 FT MSL. MULTIPLE POLES BEGINNING 918 FT FROM DER, 598 FT LEFT OF CENTERLINE, UP TO 22 FT AGL/35 FT MSL. MULTIPLE BUILDINGS, TREES BEGINNING 1467 FT FROM DER, 683 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/68 FT MSL. MULTIPLE BUILDINGS, TRANSMISSION TOWERS. TREES AND ELECTRICAL SYSTEM BEGINNING 1826 FT FROM DER, 123 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/103 FT MSL.

CONTROLLING OBSTACLES:

RWY 1L/R: 1569 FT MSL TOWER 374114.38N/1222605.32W, 1811 FT MSL TOWER 374520.00N/1222710.00W. **RWY 28L:** 924 FT MSL AAO 373813.60N/1222748.45W. **RWY 28R:** 874 FT MSL AAO 373908.90N/1222745.75W.

LOST COMMUNICATIONS PROCEDURES:**ADDITIONAL FLIGHT DATA:**

CHART V27, BSR MRA 9000 AT ZUPAX

AIRPORTS SERVED:

SAN FRANCISCO INTL

SAN FRANCISCO, CA

COMMUNICATIONS:

ATIS, GND CON, SAN FRANCISCO TOWER, NORCAL APP CON



U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EUGEN	NINE	EUGEN9.EUGEN	EIGHT	8/22/13	24 JUL 2014

FIXES AND/OR NAVAIDS:

PYE VORTAC, SJC VOR/DME, SFO VOR/DME, SAU VORTAC.

REMARKS:

9000 MRA AT ZUPAX ANTICIPATED DUE TO FLIGHT CHECK ASSIGNED MRA AT SAPLY ON PREVIOUS AMENDMENT.



U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EUGEN	NINE	EUGEN9.EUGEN	EIGHT	8/22/13	24 JUL 2014

CHANGES:

1. UPDATED TAKEOFF OBSTACLE NOTES.
2. ADDED SFO AND SAU TO FIXES AND/OR NAVAIDS.
3. UPDATED DEPARTURE ROUTE DESCRIPTION FROM EXPECT FURTHER CLEARANCE TO FILED ALTITUDE 10 MINUTES AFTER DEPARTURE TO READ EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.
4. REMOVED ATC CLIMB GRADIENTS AND ENTERED OBSTACLE CLIMB GRADIENT.
5. REMOVED RWY 10L/R, 19L/R NA-ATC REQUEST.

REASONS:

1. UPDATED AIRPORT DATA.
2. FOR CAHRTING.
3. CONTINUITY WITH OTHER PROCEDURES.
4. ATC CLIMB GRADIENTS NOT REQUIRED.
5. NOT REQUIRED.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EUGEN	NINE	EUGEN9.EUGEN	EIGHT	08/22/2013	24 JUL 2014

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSFOK2DEUGEN91RW01B	010	0	CA	0138	+	00413	18000					
SUSAP	KSFOK2DEUGEN91RW01B	020	0	VI	3330								
SUSAP	KSFOK2DEUGEN91RW01B	030SEPDYK2PC0E		CF SFO K2	3500004035000030D	+	01900						
SUSAP	KSFOK2DEUGEN91RW01B	040	0	L VIY	2030								
SUSAP	KSFOK2DEUGEN91RW01B	050ZUPAXK2PC0E		CF SAU K2	1680036116800190D								
SUSAP	KSFOK2DEUGEN91RW01B	060EUGENK2EA0EE		TF									
SUSAP	KSFOK2DEUGEN91RW28B	010SENYK2PC0E		CF SFO K2	2810006028100050D	+	02500	18000					
SUSAP	KSFOK2DEUGEN91RW28B	020ZUPAXK2PC0E	L	CFYSAU K2	1680036116800250D								
SUSAP	KSFOK2DEUGEN91RW28B	030EUGENK2EA0EE		TF									
SUSAP	KSFOK2DEUGEN93BSR	010EUGENK2EA0E		IF				18000					
SUSAP	KSFOK2DEUGEN93BSR	020SHOEYK2EA0E		TF									
SUSAP	KSFOK2DEUGEN93BSR	030BSR K2D 0VE		TF									
SUSAP	KSFOK2DEUGEN93SHOEY	010EUGENK2EA0E		IF				18000					
SUSAP	KSFOK2DEUGEN93SHOEY	020SHOEYK2EA0EE		TF									
SUSAP	KSFOK2DEUGEN93SNS	010EUGENK2EA0E		IF				18000					

QUALITY
2
CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EUGEN	NINE	EUGEN9.EUGEN	EIGHT	08/22/2013	24 JUL 2014

SUSAP KSFOK2DEUGEN93SNS 020SHOEYK2EA0E TF
 SUSAP KSFOK2DEUGEN93SNS 030SNS K2D OVE TF

RUNWAY 1 2 3 4 5 6 7 8 9 0 1 2 3
 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KSFOK2GRW01L 0076500138 N37363403W122225483-0017 -0029500010064050200D
 SUSAP KSFOK2GRW01R 0086500138 N37362768W122224850-0008 -0029200011056050200D
 SUSAP KSFOK2GRW28L 0113812838 N37364354W122213335+0000 -0028700013030053200IISFO1
 SUSAP KSFOK2GRW28R 0118702838 N37365010W122212900-0100 -0028700013030055200IIGWQ3 IFNPL

QUALITY
2
RECORD

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EUGEN	NINE	EUGEN9.EUGEN	EIGHT	08/22/2013	24 JUL 2014

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW01B		010		CA		FB		013.8()		AA 00413	
	RW01B		020		VI		FB		333.0()			
	RW01B	SEPDY	030		CF		FB		350.0()	003.0	AA 01900	
	RW01B		040		VI	L	FB		203.0()			
	RW01B	ZUPAX	050		CF		FB		168.0()	019.0		
	RW01B	EUGEN	060		TF		FB					
	RW28B	SENZY	010		CF		FB		281.0()	005.0	AA 02500	
	RW28B	ZUPAX	020		CF	L	FB		168.0()	025.0		
	RW28B	EUGEN	030		TF		FB					
	BSR	EUGEN	010		IF		FB					
	BSR	SHOEY	020		TF		FB					
	BSR	BSR	030		TF		FB					
	SHOEY	EUGEN	010		IF		FB					
	SHOEY	SHOEY	020		TF		FB					
	SNS	EUGEN	010		IF		FB					
	SNS	SHOEY	020		TF		FB					
	SNS	SNS	030		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BSR	N361052.66	W1213831.60	N3610.878	W12138.527
	SAU	N375119.20	W1223121.91	N3751.320	W12231.365
	SFO	N373710.14	W1222226.02	N3737.169	W12222.434
	SNS	N363949.81	W1213611.47	N3639.830	W12136.191
	EUGEN	N370536.41	W1222639.17	N3705.607	W12226.653
	SHOEY	N364445.53	W1220809.40	N3644.759	W12208.157
	SENZY	N373959.40	W1222906.60	N3739.990	W12229.110
	SEPDY	N374108.40	W1222149.20	N3741.140	W12221.820
	ZUPAX	N371516.19	W1223518.63	N3715.270	W12235.311
	RW01L	N373634.03	W1222254.83	N3736.567	W12222.914
	RW01R	N373627.68	W1222248.50	N3736.461	W12222.808
	RW28L	N373643.54	W1222133.35	N3736.726	W12221.556
	RW28R	N373650.10	W1222129.00	N3736.835	W12221.483

RUNWAY DATA	THRESHOLD	
RWY	ELEVATION	TCH
RW01L	00010	50
RW01R	00011	50
RW28L	00013	53
RW28R	00013	55