

**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SUPERSEDED NUMBER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>
NIITE	FOUR	NIITE4.NIITE	THREE	08/20/2015	11 Jul 2024
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	☐	☐	☒	☐	☒

DP ROUTE DESCRIPTION:

TAKEOFF RUNWAY 1L: CLIMB ON HEADING 013.80 TO 520, THEN RIGHT TURN DIRECT MDBAY, THEN ON TRACK 322.77 TO HUSSH, THEN ON TRACK 324.21 TO NIITE. THENCE...

TAKEOFF RUNWAY 1R: CLIMB ON HEADING 013.80 TO 520, THEN RIGHT TURN DIRECT MDBAY, THEN ON TRACK 322.77 TO HUSSH, THEN ON TRACK 324.21 TO NIITE. THENCE...

TAKEOFF RUNWAY 28L: CLIMB ON HEADING 283.81 TO 520 AND AT OR BELOW 220 KIAS, THEN RIGHT TURN DIRECT GALOO, THEN ON TRACK 324.86 TO NIITE. THENCE...

TAKEOFF RUNWAY 28R: CLIMB ON HEADING 283.82 TO 520 AND AT OR BELOW 220 KIAS, THEN RIGHT TURN DIRECT GALOO, THEN ON TRACK 324.86 TO NIITE. THENCE...

...ON (TRANSITION). MAINTAIN FL190, EXPECT 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>
DEDHD	NIITE4.DEDHD	NIITE	REBAS	TRACK 347.52	5.72	8000	3000	AT/ABOVE 8000
		REBAS	DEDHD	TRACK 014.37	26.91	13400	4500	
GOBBS	NIITE4.GOBBS	NIITE	GOBBS	TRACK 237.12	13.64	7100	3400	
GRTFL	NIITE4.GRTFL	NIITE	REBAS	TRACK 347.52	5.72	8000	3000	AT/ABOVE 8000
		REBAS	GRTFL	TRACK 002.24	25.69	13100	4500	
MOGEE	NIITE4.MOGEE	NIITE	REBAS	TRACK 347.52	5.72	8000	3000	AT/ABOVE 8000
		REBAS	MOGEE	TRACK 048.96	52.68	FL180	4100	
ORRCA	NIITE4.ORRCA	NIITE	REBAS	TRACK 347.52	5.72	8000	3000	AT/ABOVE 8000
		REBAS	ORRCA	TRACK 038.29	49.58	17900	3400	
SYRAH	NIITE4.SYRAH	NIITE	REBAS	TRACK 347.52	5.72	8000	3000	AT/ABOVE 8000
		REBAS	TAMMM	TRACK 061.65	11.54	10300	3700	
		TAMMM	SYRAH	TRACK 075.48	49.56	FL180	5700	

QUALITY
20
CHECKED

<u>DP NAME</u>			<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>		<u>ACTUAL EFFECTIVE DATE</u>
NIITE			FOUR	NIITE4.NIITE	THREE	08/20/2015		11 Jul 2024
TIPRE	NIITE4.TIPRE	NIITE	REBAS	TRACK 347.52	5.72	8000	3000	AT/ABOVE 8000
		REBAS	TIPRE	TRACK 061.61	65.81	FL180	3700	

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED.

PROCEDURAL DATA NOTES:**TAKEOFF MINIMUMS:**

RWY 10L, 10R, 19L, 19R: NA-ATC.

RWY 1L, 1R: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 520.

RWY 28L: STANDARD WITH MINIMUM CLIMB OF 535 FT/NM TO 2100.

RWY 28R: STANDARD WITH MINIMUM CLIMB OF 560 FT/NM TO 2100.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

RWY 28L, 28R: 1374 FT MSL AAO 374041.90N/1222524.25W (CLIMB GRADIENT), 1569 FT MSL TOWER 374114.38N/1222605.34W (CLIMB-TO ALTITUDE).

MSA:

MSA FROM KSFO, 5100

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

DME/DME ASSESSMENT: SAT (RNP 2.0).

CHART: TOP ALTITUDE: FL190

AIRPORT MV: SFO (P) 14E/2015

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KSFO	SAN FRANCISCO	CA

COMMUNICATIONS:

CHART: D-ATIS, CLNCL DEL, GND CON, TOWER, CPDLC

FIXES AND/OR NAVAIDS:**REMARKS:**

1. APPROVAL LETTER ON FILE FOR CLIMB GRADIENT IN EXCESS OF 500 FT PER NM FOR RWY 28L AND 28R. APPROVAL LETTER AND MAPS RETAINED FROM PREVIOUS AMENDMENT.
2. RADAR REQUIRED NOTE CHARTED NOTE PER ATC REQUEST.
3. ABBREVIATED AMENDMENT.

<u>FLIGHT INSPECTED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	
PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021, SUBJECT: GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION.		<i>Digitally signed by</i> ERIC N SUSKI May 23, 2024		
<u>DEVELOPED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	
MICHAEL MCCARTNEY	<i>Digitally signed by</i> MICHAEL A MCCARTNEY Nov 22, 2023	AJV-A431	10/10/2023	
<u>APPROVED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
ERIC N. SUSKI	<i>Digitally signed by</i> ROBERT G HAMILTON Dec 07, 2023	AJV-A431		MANAGER
<u>REQUIRED EFFECTIVE DATE</u>				
ROUTINE				

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZOA, NORCAL APP CON, SFO ATCT, AMGR

- CHANGES - REASONS:
1. DP ROUTE DESCRIPTION, UPDATED VERBIAGE FOR ALL INITIAL CLIMBS FROM "CLIMB HEADING" TO "CLIMB ON HEADING". - VERBIAGE IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.C.(7).
 2. TRANSITION ROUTES, UPDATED ALTITUDE FORMAT FROM "18000" TO "FL180" ON REBAS TO MOGEE SEGMENT, TAMMM TO SYRAH SEGMENT, AND REBAS TO TIPRE SEGMENT. - ALTITUDES IAW FAAO 8260.46J DOCUMENTATION STANDARDS.
 3. MOVED PBN NAV SPEC/SENSORS FROM PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS TO PBN REQUIREMENT NOTES AND UPDATED VERBIAGE FROM "NOTE: RNAV 1" AND "NOTE: DME/DME/IRU OR GPS REQUIRED" TO "RNAV 1 - DME/DME/IRU OR GPS". - DOCUMENTATION IAW FAAO 8260.46J PARAGRAPH 2-1-1.F.
 4. MOVED "NOTE: RADAR REQUIRED" FROM PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS TO EQUIPMENT REQUIREMENT NOTES AND DELETED "NOTE:". - DOCUMENTATION IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.F.
 5. TAKEOFF MINIMUMS, ADDED "RWY 10L, 10R, 19L, 19R: NA - ATC." - ATC REQUESTED AND DOCUMENTED IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.H.
 6. TAKEOFF MINIMUMS, UPDATED CLIMB GRADIENT FORMAT ALL RUNWAYS FROM "FT PER NM" TO "FT/NM", AND UPDATED VERBIAGE FOR RWY 1L, 1R FROM "RWY 1L/R: STANDARD WITH A MINIMUM" TO "RWY 1L, 1R: STANDARD WITH MINIMUM". - DOCUMENTED IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.H
 7. TAKEOFF OBSTACLE NOTES, DELETED ALL INFORMATION AND ADDED "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)". - DOCUMENTATION IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.I.
 8. CONTROLLING OBSTACLES, CHANGED RUNWAY FORMAT FROM "RWY 28L/R:" TO "RWY 28L, 28R:", AND ADDED CONTROLLING OBSTACLE ENTITIES "(CLIMB GRADIENT)" AND "(CLIMB-TO ALTITUDE)". - DOCUMENTATION IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.J.
 9. MSA ADDED IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.K.
 10. ADDITIONAL FLIGHT DATA, CHANGED REFERENCE MAGNETIC VARIATION FORMAT FROM "REFERENCE MAG VAR: KSFO 14E EPOCH YEAR: 2015" TO "AIRPORT MV: SFO (P) 14E/2015". - FORMAT IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022.
 11. ADDITIONAL FLIGHT DATA, DELETED "DO NOT CHART MOCAS". - MOCAS REQUIRED UNLESS WITHIN 500 FT OF MEA IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.D.(8).
 12. AIRPORTS SERVED, REPLACED AIRPORT NAME WITH AIRPORT ID "KSFO". - DOCUMENTATION IAW FAAO 8260.46J APPENDIX E. SECTION 1.2.
 13. COMMUNICATIONS, ADDED "CHART:", DELETED "NORCAL DEP CON", CHANGED "ATIS" TO "D-ATIS", AND ADDED "CPDLC". - FORMAT AND AUTOMATIC CHARTING OF DEPARTURE CONTROL IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.O, AND UPDATED SFO COMMUNICATION CAPABILITIES.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
NIITE	FOUR	NIITE4.NIITE	THREE	08/20/2015	11 Jul 2024

<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW01L (AER)*	373634.03N/1222254.83W*	-	-	-	-	--			*DISP THLD (640 FT)
520	-	-	-	VA	027.80	-	AT/ABOVE 520		CG 500 FT PER NM TO 520
MDBAY	374105.19N/1221812.98W	Y	FB	DF	-	-			RIGHT TURN
HUSSH	374458.20N/1222018.93W	Y	FB	TF	336.77	4.22			
NIITE	375042.87N/1222312.73W	Y	FB	TF	338.21	6.18			
RW01R (AER)*	373627.68N/1222248.50W*	-	-	-	-	-			*DISP THLD (560 FT)
520	-	-	-	VA	027.80	-	AT/ABOVE 520		CG 500 FT PER NM TO 520
MDBAY	374105.19N/1221812.98W	Y	FB	DF	-	-			RIGHT TURN
HUSSH	374458.20N/1222018.93W	Y	FB	TF	336.77	4.22			
NIITE	375042.87N/1222312.73W	Y	FB	TF	338.21	6.18			
RW28L (AER)*	373643.54N/1222133.35W*	-	-	-	-	-			*DISP THLD (300 FT)
520 MSL	-	-	-	VA	297.81	-	AT/ABOVE 520	AT/BELOW 220	CG 536 FT PER NM TO 2100
GALOO	374352.13N/1221952.38W	Y	FB	DF	-	-			RIGHT TURN
NIITE	375042.87N/1222312.73W	Y	FB	TF	388.86	7.33			
RW28R (AER)*	373650.10N/1222129.01W*	-	-	-	-	-			*DISP THLD (300 FT)
520 MSL	-	-	-	VA	297.82	-	AT/ABOVE 520	AT/BELOW 220	CG 560 FT PER NM TO 2100
GALOO	374352.13N/1221952.38W		FB	DF	-	-			RIGHT TURN
NIITE	375042.87N/1222312.73W		FB	GF	388.86	7.33			

QUALITY
20
CHECKED

NFDD NO. 105							05/30/2024		27		
<u>DP NAME</u>							<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
NIITE							FOUR	NIITE4.NIITE	THREE	08/20/2015	11 Jul 2024
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>		
NIITE	375042.87N/1222312.73W	Y	-	IF	-	-			NIITE4.DEDHD		
REBAS	375626.46N/1222301.20W	Y	FB	TF	001.52	5.72	AT/ABOVE 8000				
DEDHD	382007.86N/1220646.11W	Y	FB	TF	028.37	26.91					
NIITE	375042.87N/1222312.73W	Y	-	IF	-	-			NIITE4.GOBBS		
GOBBS	374616.74N/1223929.23W	Y	FB	TF	251.12	13.64					
NIITE	375042.87N/1222312.73W	Y	-	IF	-	-			NIITE4.GRTFL		
REBAS	375626.46N/1222301.20W	Y	FB	TF	001.52	5.72	AT/ABOVE 8000				
GRTFL	382107.81N/1221353.29W	Y	FB	TF	016.24	25.69					
NIITE	375042.87N/1222312.73W	Y	-	IF	-	-			NIITE4.MOGEE		
REBAS	375626.46N/1222301.20W	Y	FB	TF	001.52	5.72	AT/ABOVE 8000				
MOGEE	382010.00N/1212323.00W	Y	FB	TF	062.96	52.68					
NIITE	375042.87N/1222312.73W	Y	-	IF	-	-			NIITE4.ORRCA		
REBAS	375626.46N/1222301.20W	Y	FB	TF	001.52	5.72	AT/ABOVE 8000				
ORRCA	382637.17N/1213305.84W	Y	FB	TF	052.29	49.58					
NIITE	375042.87N/1222312.73W	Y	-	IF	-	-			NIITE4.SYRAH		
REBAS	375626.46N/1222301.20W	Y	FB	TF	001.52	5.72	AT/ABOVE 8000				
TAMMM	375917.43N/1220852.48W	Y	FB	TF	075.65	11.54					
SYRAH	375927.78N/1210611.12W	Y	FB	TF	089.48	49.56					
QUALITY 20											



NFDD NO. 105							05/30/2024		28	
<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>	
NIITE		FOUR		NIITE4.NIITE		THREE		08/20/2015	11 Jul 2024	
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>	
NIITE	375042.87N/1222312.73W	Y	-	IF	-	-			NIITE4.TIPRE	
REBAS	375626.46N/1222301.20W	Y	FB	TF	001.52	5.72	AT/ABOVE 8000			
TIPRE	381221.00N/1210209.00W	Y	FB	TF	075.61	65.81				

