

FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated. Distances are in nautical miles (NM). Graphic depictions attached.

Arrival Name ALWYS (RNAV)	Number TWO	STAR Computer Code ALWYS.ALWYS2	Superseded Number ONE	Dated 08/20/2015	Effective Date 13SEPT2018
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes		
INYOE	INYOE.ALWYS2	INYOE	INYOE								
			DYAMD	247.92	78.85	FL200		AT/ABOVE FL270			
			LAANE	247.72	16.51	10000	3700	BETWEEN FL220 AND FL260			
ALWYS			ALWYS	247.44	10.22	10000	1600				
			RUSME	RUSME.ALWYS2	RUSME	RUSME					
			DYAMD	261.98	138.08	FL220		AT/ABOVE FL270			
LAANE			LAANE	247.72	16.51	10000	3700		BETWEEN FL220 AND FL260		
			ALWYS	247.44	10.22	10000	1600				

ARRIVAL ROUTE DESCRIPTION:

LANDING RWY 19L/R: FROM ALWYS ON TRACK 269.23/12.99 TO CROSS HEFLY BETWEEN 14000 AND FL190 AND AT 250 KIAS, THEN ON TRACK 269.06/13.59 TO CROSS ARRTU AT 10000 AND AT 240 KIAS, THEN ON TRACK 268.97/10.04 TO CROSS ADDMM AT 9000 AND AT 240 KIAS, THEN ON TRACK 268.81/13.04 TO CROSS COGGR BETWEEN 7000 AND 9000 AND AT 210 KIAS, THEN ON TRACK 268.71/11.47 TO CROSS BERKS AT OR ABOVE 5000 AND AT 210 KIAS, THEN ON TRACK 268.71. EXPECT ILS OR RNAV (GPS) APPROACH TO RWY 19L, OR RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

- NOTE: RADAR REQUIRED
- NOTE: RNAV 1
- NOTE: DME/DME/IRU OR GPS REQUIRED
- NOTE: EXPECT "DESCEND VIA" CLEARANCE FROM OAKLAND CENTER. NORTHERN CALIFORNIA TRACON WILL ASSIGN LANDING RUNWAY.

FIXES AND/OR HOLDING PATTERNS:

- CHART HOLDING AT ALWYS: HOLD NE, LT, 247.44 INBOUND, 10 NM LEGS.
- CHART HOLDING AT HEFLY: HOLD E, LT, 269.23 INBOUND, 10 NM LEGS.
- CHART HOLDING AT INYOE: HOLD E, LT, 247.92 INBOUND, 16 NM LEGS.

COMMUNICATIONS:

D-ATIS, OAKLAND CENTER, NORCAL APP CON, SAN FRANCISCO TWR, SAN FRANCISCO GND CON.

AIRPORTS SERVED:

SAN FRANCISCO INTL, SAN FRANCISCO, CA (KSFO)

LOST COMMUNICATIONS PROCEDURE:

REMARKS:



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ALWYS (RNAV)	TWO	ALWYS.ALWYS2	ONE	08/20/2015	13SEPT2018

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
 REFERENCE MAGNETIC VARIATION = KSFO 14E/2015
 CHART AT BERKS TERMINUS: LANDING SFO.

FLIGHT INSPECTED BY:

SCOTT THOMPSON
 Name

FICO
 Organization

06/21/2018
 Date

Digitally signed by
JACOB POWERS
 Jul 12, 2018

Signature

DEVELOPED BY:

DEBORAH PRICE, SM
 Name

OAKLAND ARTCC
 Organization

04/19/2018
 Date

Digitally signed by
JACOB POWERS
 Jul 12, 2018

Signature

APPROVED BY:

MARLON J. ROBINSON, MANAGER
 Name

AJV-5440
 Organization

Date

Digitally signed by
JACOB POWERS
 Jul 12, 2018

Signature

CHANGES:

1. ADDED SPEED RESTRICTION AT DYAMD, 270 KIAS.
2. REDUCED SPEED RESTRICTION AT LAANE FROM 280 KIAS TO 260 KIAS.
3. REDUCED SPEED RESTRICTION AT ARRTU FROM 250 KIAS TO 240 KIAS.
4. MOVED HEFLY UPTRACK 0.30 NM. GROUNDTRACK UNCHANGED.
5. INCORPORATED THE COMMON ROUTE DYMND-LANE-ALWYS INTO THE ENROUTE TRANSITION.
6. REMOVED MEA/MOCAS FROM RUNWAY TRANSITION.
7. ADDED FM TRACK AFTER BERKS.
8. REDUCED INYOE HOLDING LEGS FROM 20NM TO 16NM.
9. ADDED TERMINUS CHARTING INSTRUCTIONS.

REASONS:

1. ATC/WORKGROUP/INDUSTRY REQUEST.
2. ATC/WORKGROUP/INDUSTRY REQUEST.
3. ATC/WORKGROUP/INDUSTRY REQUEST.
4. FOR DECELERATION LEG LENGTH REQUIREMENTS HEFLY-ARRTU.
5. WORK GROUP CHANGE DURING REDESIGN.
6. NOLONGER REQUIRED, CRITERIA CHANGE.
7. STAR DOES NOT CONNECT TO IAP.
8. REDUCED PER CRITERIA, MAXIMUM 16NM.
9. REQUIRED INFORMATION.

07/10/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 04/19/2018.

1. CHANGED ALTITUDE AT BERKS FROM CROSS AT 5000 TO CROSS AT/ABOVE 5000.
2. CHANGED ARRIVAL DESCRIPTION FROM EXPECT ASSIGNED APPROACH TO EXPECT ILS OR RNAV (GPS) APPROACH TO RWY 19L.



FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STAR (DATA RECORD)

Arrival Name ALWYS (RNAV)	Number TWO	STAR Computer Code ALWYS.ALWYS2	Superseded Number ONE	Dated 08/20/2015	Effective Date 13SEPT2018
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
INYOE	375344.24N / 1184553.97W	Y		IF					INYOE.ALWYS2
DYAMD	374156.98N / 1202415.94W	Y	FB	TF	261.92	78.85	AT/ABOVE FL270	AT 270K	
LAANE	373932.34N / 1204450.61W	Y	FB	TF	261.72	16.51	FL220BFL260	AT 260K	
ALWYS	373800.31N / 1205733.95W	Y	FB	TF	261.44	10.22			

En Route Transition									
RUSME	372939.00N / 1173112.00W	Y		IF					RUSME.ALWYS2
DYAMD	374156.98N / 1202415.94W	Y	FB	TF	275.98	138.08	AT/ABOVE FL270	AT 270K	
LAANE	373932.34N / 1204450.61W	Y	FB	TF	261.72	16.51	FL220BFL260	AT 260K	
ALWYS	373800.31N / 1205733.95W	Y	FB	TF	261.44	10.22			

Runway Transition									
ALWYS	373800.31N / 1205733.95W	Y		IF					
HEFLY	374057.80N / 1211329.62W	Y	FB	TF	283.23	12.99	14000BFL190	AT 250K	
ARRTU	374401.04N / 1213010.76W	Y	FB	TF	283.06	13.59	AT 10000	AT 240K	
ADDMM	374615.70N / 1214230.91W	Y	FB	TF	282.97	10.04	AT 9000	AT 240K	
COGGR	374908.33N / 1215834.12W	Y	FB	TF	282.81	13.04	7000B9000	AT 210K	
BERKS	375139.10N / 1221242.04W	Y	FO	TF	282.71	11.47	AT/ABOVE 5000	AT 210K	
KSFO:RWY 19L,RWY 19R				FM	282.71				RECOMMENDED NAVAID: NLC TACAN

