

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Arrival Name TILLT RNAV	Number TWO	STAR Computer Code TILLT.TILLT2	Superseded Number ONE	Dated 04/27/2017	Effective Date 12 OCT 2017
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
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ARRIVAL ROUTE DESCRIPTION:

FROM TILLT ON TRACK 126.43/32.60 TO ZIPRR, THEN ON TRACK 134.26/25.40 TO WURLL, THEN ON TRACK 134.48/44.29 TO CROSS TCUPS AT OR ABOVE 26000, THEN ON TRACK 108.98/20.56 TO CROSS RUKKI AT OR ABOVE 21000 AND AT 280 KIAS, THEN ON TRACK 108.50/38.30 TO CROSS BAUBB BETWEEN 11000 AND 14000.

LANDING RWY 02L: FROM BAUBB ON TRACK 098.83/28.92 TO CROSS JJAWS AT OR BELOW 6000, THEN ON TRACK 091.54/8.69 TO PUZZL, THEN ON TRACK 016.69/9.53 TO CROSS MINOE AT OR ABOVE 3000 AND AT 210 KIAS. EXPECT RNAV (RNP) Z RWY RWY 02L OR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 20R: FROM BAUBB ON TRACK 088.85/15.79 TO CROSS STYFF AT OR BELOW 9000, THEN ON TRACK 079.73/6.71 TO CROSS KAYNN AT OR BELOW 7000, THEN ON TRACK 057.05/8.27 TO CROSS LAXBB AT 5000, THEN ON TRACK 044.30/13.96 TO CROSS KLEVR AT 5000, THEN ON TRACK 015.88/7.26 TO BHEAR, THEN ON TRACK 015.88. EXPECT RNAV (RNP) Z RWY 20R OR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: EXPECT RWY 20R UNLESS OTHERWISE ASSIGNED BY ATC.

NOTE: RWY 02L TRANSITION ATC ASSIGNED ONLY

FIXES AND/OR HOLDING PATTERNS:

COMMUNICATIONS:

SOCAL APP CON, SNA TOWER, SNA ATIS

AIRPORTS SERVED:

JOHN WAYNE AIRPORT-ORANGE COUNTY, SANTA ANA, CA

LOST COMMUNICATIONS PROCEDURE:

LANDING RUNWAY 20R: AFTER BHEAR TURN RIGHT DIRECT SNAKE AND EXECUTE THE ILS OR LOC RWY 20R APPROACH.

LANDING RUNWAY 02L: PROCEED ON LOC BC RWY 2L, RNAV (GPS) Y RWY 2L, OR RNAV (RNP) Z RWY 2L.

REMARKS:

THIS AMENDMENT DOES NOT QUALIFY AS A PERIODIC REVIEW.



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
TILLT RNAV	TWO	TILLT.TILLT2	ONE	04/27/2017	12 OCT 2017

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
 REFERENCE MAGNETIC VARIATION = KSNA 12E/2015
 DO NOT CHART MOCAS

FLIGHT INSPECTED BY:

FLIGHT INSPECTION NOT REQUIRED, MANAGER ROBERT STUCKERT

Name

AJW-331

Organization

2/16/2017

Date

Digitally signed by

JOHNNIE BAKER

Signature

Jun 21, 2017

DEVELOPED BY:

JEFF A. ANDERSON, AIS

Name

AJV-5442

Organization

Date

Digitally signed by

JEFF A ANDERSON

May 31, 2017

Signature

APPROVED BY:

MARLON J. ROBINSON, MANAGER

Name

AJV-5440

Organization

Date

Digitally signed by

JOHNNIE BAKER

Jun 21, 2017

Signature

CHANGES:

- 1) ADDED NOTE: RWY 02L TRANSITION ATC ASSIGNED ONLY.
- 2) ADDED LOST COMM INSTRUCTIONS FOR LANDING RWY 02L.

REASONS:

- 1-2) ATC REQUEST



FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STAR (DATA RECORD)

Arrival Name TILLT RNAV	Number TWO	STAR Computer Code TILLT.TILLT2	Superseded Number ONE	Dated 04/27/2017	Effective Date 12 OCT 2017
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
Common Route									
TILLT	352713.22N / 1210003.51W	Y		IF					TILLT.TILLT2
ZIPRR	350244.53N / 1203342.86W	Y	FB	TF	138.43	32.60			
WURLL	344133.87N / 1201636.17W	Y	FB	TF	146.26	25.40			
TCUPS	340431.05N / 1194709.64W	Y	FB	TF	146.48	44.29	AT/ABOVE FL260		
RUKKI	335353.00N / 1192559.00W	Y	FB	TF	120.98	20.56	AT/ABOVE FL210	AT 280K	
BAUBB	333418.00N / 1184629.11W	Y	FB	TF	120.50	38.30	11000B14000		

Runway Transition									
BAUBB	333418.00N / 1184629.11W	Y		IF			11000B14000		
JJAWS	332355.53N / 1181411.85W	Y	FB	TF	110.83	28.92	AT/BELOW 6000		
PUZZL	332152.78N / 1180406.49W	Y	FB	TF	103.54	08.69			
MINOE	333015.37N / 1175838.10W	Y	FB	TF	028.69	09.53	AT/ABOVE 3000	AT 210K	

KSNA:RWY 02L

Runway Transition									
BAUBB	333418.00N / 1184629.11W	Y		IF			11000B14000		
STYFF	333118.00N / 1182756.40W	Y	FB	TF	100.85	15.79	AT/BELOW 9000		
KAYNN	333105.60N / 1181955.30W	Y	FB	TF	091.73	06.71	AT/BELOW 7000		
LAXBB	333403.00N / 1181040.80W	Y	FB	TF	069.05	08.27	AT 5000		
KLEVR	334147.70N / 1175645.74W	Y	FB	TF	056.30	13.96	AT 5000		
BHEAR	334813.55N / 1175241.17W	Y	FO	TF	027.88	07.26			
KSNA:RWY 20R				FM	027.88				RECOMMENDED NAVAID: NKX TACAN

