

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 <b>TOPGN (RNAV)</b>	Number <b>TWO</b>	STAR Computer Code <b>TOPGN.TOPGN 2</b>	Superseded Number <b>ONE</b>	Dated <b>03/02/2017</b>	Effective Date <b>24MAY2018</b>
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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
IMPERIAL	IPL.TOPGN 2	IPL VORTAC	IPL VORTAC						BETWEEN FL240 AND FL260
			BLUZE	252.99	26.61	12000	5800	BETWEEN 17000 AND FL190	
			GUUSE	253.03	20.06	9000	7000	BETWEEN 12000 AND 13000	
			TOPGN	249.43	07.79	9000	6400	BETWEEN 9000 AND 10000	
MOMAR	MOMAR.TOPGN 2	MOMAR	MOMAR						BETWEEN FL240 AND FL260
			DSURT	224.36	18.67	12500	8400	BETWEEN FL190 AND FL230	
			TRIXI	195.25	22.15	12000	7900	BETWEEN 12000 AND 13000	
			TOPGN	186.25	22.66	9000	8500	BETWEEN 9000 AND 10000	
PARKER	PKE.TOPGN 2	PKE VORTAC	PKE VORTAC						
			LNDON	231.11	18.08	15000	5100		
			WBERG	230.80	29.78	15000	6600		
			SHADI	231.25	13.30	14000	6600		
			MOMAR	224.45	11.13	13000	6100	BETWEEN FL240 AND FL260	
			DSURT	224.36	18.67	12500	8400	BETWEEN FL190 AND FL230	
			TRIXI	195.25	22.15	12000	7900	BETWEEN 12000 AND 13000	
			TOPGN	186.25	22.66	9000	8500	BETWEEN 9000 AND 10000	
TTRUE	TTRUE.TOPGN 2	TTRUE	TTRUE						
			LINNE	217.89	25.55	15000	6000		
			SRRFR	217.63	32.78	15000	6600		
			TRRSH	217.51	25.41	15000	6900		
			SHADI	216.89	07.84	15000	6900		
			MOMAR	224.45	11.13	13000	6100	BETWEEN FL240 AND FL260	
			DSURT	224.36	18.67	12500	8400	BETWEEN FL190 AND FL230	
			TRIXI	195.25	22.15	12000	7900	BETWEEN 12000 AND 13000	
			TOPGN	186.25	22.66	9000	8500	BETWEEN 9000 AND 10000	

ARRIVAL ROUTE DESCRIPTION:

KSAN: FROM TOPGN ON TRACK 250.49/11.71 TO CROSS ISEMN AT OR ABOVE 6400, THEN ON TRACK 252.99/8.57 TO CROSS ZIPPP BETWEEN 6000 AND 8000, THEN ON TRACK 272.97/10.34 TO CROSS TMCAT AT 6000 AND AT 210 KIAS, THEN ON TRACK 270.00. EXPECT RADAR VECTORS TO ILS OR LOC RWY 9 APPROACH.



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<b>TOPGN (RNAV)</b>	<b>TWO</b>	<b>TOPGN.TOPGN 2</b>	<b>ONE</b>	<b>03/02/2017</b>	<b>24MAY2018</b>

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: TURBOJET AIRCRAFT ONLY

NOTE: WHEN SAN DIEGO IS LANDING RWY 9 AND DEPARTING RWY 27, EXPECT RADAR VECTORS TO DOGFT THEN DIRECT TMCAT.

NOTE: DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 270K. MAINTAIN 270K UNTIL SLOWED BY THE STAR OR ASSIGNED BY ATC.

FIXES AND/OR HOLDING PATTERNS:

CHART: MNLYT; DOGFT; LVELL; SARGS

CHART HOLDING AT DSURT: HOLD NE, LT, 224.36 INBOUND, 10 NM LEGS.

CHART HOLDING AT IPL VORTAC: HOLD E, RT, 259.49 INBOUND, 10 NM LEGS.

CHART HOLDING AT ISEMN: HOLD E, RT, 250.48 INBOUND, 10 NM LEGS.

CHART HOLDING AT MNLYT: HOLD NW, RT, 138.00 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

ATIS, SOCAL APP CON

AIRPORTS SERVED:

SAN DIEGO INTL, SAN DIEGO, CA (KSAN)

LOST COMMUNICATIONS PROCEDURE:

IN THE EVENT OF LOST COMMUNICATION: PROCEED DIRECT SARGS THEN ON THE ILS OR LOC RWY 9 APPROACH.

REMARKS:

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

REFERENCE MAGNETIC VARIATION = KSAN 11E/2020.

DO NOT CHART MOCAS.



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FLIGHT INSPECTED BY:

DONALD MCGOUGH	FICO	8/25/17	_____
Name	Organization	Date	Signature

DEVELOPED BY:

Robert E. Henry, FAA Lead Jose Gonzalez, NATCA Co-Lead	Southern California Metroplex	4/14/2017	_____
Name	Organization	Date	Signature

APPROVED BY:

MARLON J. ROBINSON, MANAGER	AJV-5440		_____
Name	Organization	Date	Signature

CHANGES:

1. CHANGED RESTRICTION AT TRIXI FROM BETWEEN 12000 AND 14000 TO BETWEEN 12000 AND 13000.
2. CHANGED RESTRICTION AT GUUSE FROM BETWEEN 11000 AND 13000 TO BETWEEN 12000 AND 13000.
3. CHANGED RESTRICTION AT BLUZE FROM BETWEEN 17000 AND FL210 TO BETWEEN 17000 AND FL190.
4. CHANGED FM LEG AFTER TMCAT FROM 272.97 TO 270.
5. CHANGED PROPULSION TYPE NOTE FROM "TURBOJET AND TURBOPROP AIRCRAFT ONLY" TO "TURBOJET AIRCRAFT ONLY".
6. CHART NOTE ADDED "DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 270K. MAINTAIN 270K UNTIL SLOWED BY THE STAR OR ASSIGNED BY ATC".

REASONS:

- 1,2,3. ATC REQUEST - FOR BETTER FLOW OF ARRIVAL AND OPPOSITE DIRECTION DEPARTURE TRAFFIC.
4. ATC REQUEST - KEEPS ARRIVALS OFFSHORE, INCREASING MANUVERING ROOM FOR SEQUENCING.
5. ATC REQUEST - REFLECTS ACUTAL USE RESTRICTIONS VIA AUTOMATION.
6. ATC REQUEST - ALLOWS THE MOST OPTIMUM USE OF AIRFRAME DESCENT CAPABILITIES.

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STAR (DATA RECORD)

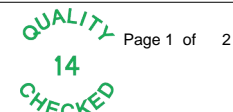
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
<b>En Route Transition</b>									
IPL VORTAC	324455.92N / 1153030.90W	Y		IF			FL240BFL260		IPL.TOPGN 2
BLUZE	324204.52N / 1160152.25W	Y	FB	TF	263.99	26.61	17000BFL190		
GUUSE	323956.86N / 1162530.61W	Y	FB	TF	264.03	20.06	12000B13000	AT 270K	
TOPGN	323838.67N / 1163436.44W	Y	FB	TF	260.43	07.79	9000B10000		

<b>En Route Transition</b>									
MOMAR	333054.13N / 1155640.14W	Y		IF			FL240BFL260		MOMAR.TOPGN 2
DSURT	332015.00N / 1161500.00W	Y	FB	TF	235.36	18.67	FL190BFL230		
TRIXI	330020.00N / 1162639.00W	Y	FB	TF	206.25	22.15	12000B13000	AT 270K	
TOPGN	323838.67N / 1163436.44W	Y	FB	TF	197.25	22.66	9000B10000		

<b>En Route Transition</b>									
PKE VORTAC	340607.10N / 1144055.44W	Y		IF					PKE.TOPGN 2
LNDON	335737.19N / 1150008.16W	Y	FB	TF	242.11	18.08			
WBERG	334327.29N / 1153136.16W	Y	FB	TF	241.80	29.78			
SHADI	333714.18N / 1154541.97W	Y	FB	TF	242.25	13.30			
MOMAR	333054.13N / 1155640.14W	Y	FB	TF	235.45	11.13	FL240BFL260		
DSURT	332015.00N / 1161500.00W	Y	FB	TF	235.36	18.67	FL190BFL230		
TRIXI	330020.00N / 1162639.00W	Y	FB	TF	206.25	22.15	12000B13000	AT 270K	
TOPGN	323838.67N / 1163436.44W	Y	FB	TF	197.25	22.66	9000B10000		

<b>En Route Transition</b>									
TTRUE	343801.53N / 1142305.05W	Y		IF					TTRUE.TOPGN 2
LINNE	342109.85N / 1144619.99W	Y	FB	TF	228.89	25.55			
SRRFR	335924.09N / 1151555.37W	Y	FB	TF	228.63	32.78			
TRRSH	334230.29N / 1153844.15W	Y	FB	TF	228.51	25.41			
SHADI	333714.18N / 1154541.97W	Y	FB	TF	227.89	07.84			
MOMAR	333054.13N / 1155640.14W	Y	FB	TF	235.45	11.13	FL240BFL260		
DSURT	332015.00N / 1161500.00W	Y	FB	TF	235.36	18.67	FL190BFL230		



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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
TRIXI	330020.00N / 1162639.00W	Y	FB	TF	206.25	22.15	12000B13000	AT 270K	
TOPGN	323838.67N / 1163436.44W	Y	FB	TF	197.25	22.66	9000B10000		

**Common Route**

TOPGN	323838.67N / 1163436.44W	Y		IF			9000B10000		TOPGN.TOPGN 2
ISEMN	323653.70N / 1164818.95W	Y	FB	TF	261.49	11.71	AT/ABOVE 6400		
ZIPPP	323559.35N / 1165824.18W	Y	FB	TF	263.99	08.57	6000B8000		
TMCAT	323828.88N / 1171017.14W	Y	FO	TF	283.97	10.34	AT 6000	AT 210K	
KSAN				FM	281.00				RECOMMENDED NAVAID: NJK VORTAC

