

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Arrival Name CHASR (RNAV)	Number TWO	STAR Computer Code TOPGN.CHASR2	Superseded Number ONE	Dated 04//27/2017	Effective Date 7 DEC 2017				
TRANSITION ROUTES:									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
IMPERIAL	IPL.CHASR2	IPL VORTAC	IPL VORTAC						BETWEEN FL240 AND FL260
			BLUZE	249.99	26.61	17000	5800		BETWEEN 17000 AND FL190
			GUUSE	250.03	20.06	10000	7000		BETWEEN 10000 AND 12000
			TOPGN	246.43	07.79	6400			AT/ABOVE 7300
MOMAR	MOMAR.CHASR2	MOMAR	MOMAR						BETWEEN FL240 AND FL260
			DSURT	221.36	18.67	FL190			BETWEEN FL190 AND FL230
			TRIXI	192.25	22.15	12000	7900		BETWEEN 12000 AND 14000
			RIPPL	183.26	13.79	8500			AT 8500
			TOPGN	183.18	08.88	7300			AT/ABOVE 7300
PARKER	PKE.CHASR2	PKE VORTAC	PKE VORTAC						
			LNDON	228.11	18.08	FL190			
			WBERG	227.80	29.78	FL190			
			SHADI	228.25	13.30	FL190			
			MOMAR	221.45	11.13	FL190			BETWEEN FL240 AND FL260
			DSURT	221.36	18.67	FL190			BETWEEN FL190 AND FL230
			TRIXI	192.25	22.15	12000	7900		BETWEEN 12000 AND 14000
			RIPPL	183.26	13.79	8500			AT 8500
			TOPGN	183.18	08.88	7300			AT/ABOVE 7300
TTRUE	TTRUE.CHASR2	TTRUE	TTRUE						
			LINNE	214.89	25.55	FL190			
			SRRFR	214.63	32.78	FL190			
			TRRSH	214.51	25.41	FL190			
			SHADI	213.89	07.84	FL190			
			MOMAR	221.45	11.13	FL190			BETWEEN FL240 AND FL260
			DSURT	221.36	18.67	FL190			BETWEEN FL190 AND FL230

QUALITY
14
CHECKED

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Arrival Name		Number		STAR Computer Code		Superseded Number			Dated	Effective Date
CHASR (RNAV)		TWO		TOPGN.CHASR2		ONE			04//27/2017	7 DEC 2017
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes	
			TRIXI	192.25	22.15	12000	7900		BETWEEN 12000 AND 14000	
			RIPPL	183.26	13.79	8500			AT 8500	
			TOPGN	183.18	08.88	7300			AT/ABOVE 7300	

ARRIVAL ROUTE DESCRIPTION:

KNZY/KSDM: FROM TOPGN ON TRACK 248.69/8.93 TO CROSS CHASR AT 6400, THEN ON TRACK 250.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: TURBOJET AND TURBOPROP AIRCRAFT ONLY

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 AS STAND ALONE WP'S: LVELL, HAILE, LUGJA

CHART HOLDING AT DSURT: HOLD NE, LT, 221.36 INBOUND, 10 NM LEGS.

CHART HOLDING AT IPL VORTAC: HOLD E, RT, 256.49 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

SOCAL APP CON

BROWN FIELD ATIS

NORTH ISLAND ATIS

AIRPORTS SERVED:

BROWN FIELD MUNI, SAN DIEGO, CA (KSDM)

NORTH ISLAND NAS / HALSEY FIELD , SAN DIEGO, CA (KNZY)

LOST COMMUNICATIONS PROCEDURE:

REMARKS:

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

REFERENCE MAGNETIC VARIATION = KSDM 14E/1980

DO NOT CHART MOCAS.

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
CHASR (RNAV)	TWO	TOPGN.CHASR2	ONE	04/27/2017	7 DEC 2017
<u>FLIGHT INSPECTED BY:</u>			<i>Digitally signed by</i>		
DONALD MCGOUGH		FICO	8/25/17	BEV L BORDY	
Name		Organization	Date	Jul 27, 2017	Signature
<u>DEVELOPED BY:</u>			<i>Digitally signed by</i>		
Robert E. Henry, FAA-Lead		Southern California Metroplex	4/14/2017	BEV L BORDY	
Jose Gonzalez, NATCA Co-Lead					
Name		Organization	Date	Jul 27, 2017	Signature
<u>APPROVED BY:</u>			<i>Digitally signed by</i>		
MARLON J. ROBINSON, MANAGER		AJV-5440		BEV L BORDY	
Name		Organization	Date	Jul 27, 2017	Signature

CHANGES:

1. CHANGED RESTRICTION AT GUUSE FROM AT OR ABOVE 10000 TO BETWEEN 10000 AND 12000.
2. CHANGED RESTRICTION AT BLUSE FROM BETWEEN 17000 AND FL210 TO BETWEEN 17000 AND FL190.
3. ADDED AOA7300 RESTRICTION AT TOPGN.
4. CHART NOTE ADDED "DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 270K. MAINTAIN 270K UNTIL SLOWED BY THE STAR OR ASSIGNED BY ATC".
5. REMOVED MEA'S IN COMMON ROUTE.

REASONS:

1. 2. ATC REQUEST - FOR BETTER FLOW OF ARRIVAL AND OPPOSITE DIRECTION DEPARTURE TRAFFIC.
3. IAW 8260.3C, RESTRICTION REQUIRED.
4. ATC REQUEST - ALLOWS THE MOST OPTIMUM USE OF AIRFRAME DESCENT CAPABILITIES.
5. IAW 8260.3C, NO LONGER REQUIRED.



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name CHASR (RNAV)		Number TWO		STAR Computer Code TOPGN.CHASR2		Superseded Number ONE		Dated 04//27/2017	Effective Date 7 DEC 2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
IPL VORTAC	324455.92N / 1153030.90W	Y		IF			FL240BFL260		IPL.CHASR2
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	10000B12000		
TOPGN	323838.67N / 1163436.44W	Y	FB	TF	260.43	07.79	AT/ABOVE 7300		
En Route Transition									
MOMAR	333054.13N / 1155640.14W	Y		IF			FL240BFL260		MOMAR.CHASR2
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	12000B14000	AT 270K	
RIPPL	324708.51N / 1163130.16W	Y	FB	TF	197.26	13.79	AT 8500		
TOPGN	323838.67N / 1163436.44W	Y	FB	TF	197.18	08.88	AT/ABOVE 7300		
En Route Transition									
PKE VORTAC	340607.10N / 1144055.44W	Y		IF					PKE.CHASR2
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	12000B14000	AT 270K	
RIPPL	324708.51N / 1163130.16W	Y	FB	TF	197.26	13.79	AT 8500		
TOPGN	323838.67N / 1163436.44W	Y	FB	TF	197.18	08.88	AT/ABOVE 7300		
En Route Transition									
TTRUE	343801.53N / 1142305.05W	Y		IF					TTRUE.CHASR2
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			

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
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	12000B14000	AT 270K	
RIPPL	324708.51N / 1163130.16W	Y	FB	TF	197.26	13.79	AT 8500		
TOPGN	323838.67N / 1163436.44W	Y	FB	TF	197.18	08.88	AT/ABOVE 7300		
Common Route									
TOPGN	323838.67N / 1163436.44W	Y		IF			AT/ABOVE 7300		TOPGN.CHASR2
CHASR	323729.90N / 1164505.87W	Y	FO	TF	262.69	08.93	AT 6400		
KSDM				FM	264.00				RECOMMENDED NAVAID: PGY VORTAC