U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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 statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TUCSON	EIGHT	TUS8.TUS	SEVEN	08/30/2007	20 SEP 2012

TYPE: SID

DP ROUTE DESCRIPTION:

TAKEOFF RWYS 11L/R: CLIMB DIRECT TUS VORTAC. THENCE...
TAKEOFF RWYS 3, 29L/R: CLIMBING RIGHT TURN DIRECT TUS VORTAC. THENCE...
TAKEOFF RWY 21: CLIMBING LEFT TURN DIRECT TUS VORTAC. THENCE...

...VIA ASSIGNED TRANSITION. MAINTAIN 17000, EXPECT CLEARANCE TO FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
GILA BEND	TUS8.GBN	TUS VORTAC	ROSKR	280.00	30.00	9000	4900	
		ROSKR	GBN VORTAC	288.99 (GBN R-109)	73.54	15000	6300	
PHOENIX	TUS8.PXR	TUS VORTAC	BBALL	318.95	59.72	10000	6800	
		BBALL	PXR VORTAC	307.00 (PXR R-127)	37.00	6500	5400	
BAYBI	TUS8.BAYBI	TUS VORTAC	BAYBI	335.06	41.21	9000	6900	
BBALL	TUS8.BBALL	TUS VORTAC	BBALL	318.95	59.72	10000	6800	
MESCA	TUS8.MESCA	TUS VORTAC	MESCA	106.69	25.00	9500	8400	
		MESCA	SSO VORTAC	057.50 (SSO R-238)	66.24	9900		
REDDY	TUS8.REDDY	TUS VORTAC	REDDY	038.00	22.00	11000	7600	
		REDDY	SSO VORTAC	080.50 (SSO R-262)	67.24	11000	9800	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

RWY 3, 11L/R, 29L/R STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 9900.
RWY 21 STANDARD WITH MINIMUM CLIMB OF 380 FT PER NM TO 9900.
NOTE: DME REQUIRED.
NOTE: DURING RADAR OPERATIONS AIRCRAFT WILL RECEIVE RADAR VECTORS TO APPROPRIATE TRANSITION.
NOTE: ALL RUNWAYS - GILA BEND TRANSITION REQUIRES MINIMUM CLIMB OF 405 FT PER NM TO 15000.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 3, MULTIPLE TREES AND SIGN BEGINNING 1385 FT FROM DER, 127 FT LEFT OF CENTERLINE, UP TO 41 FT AGL/2611 FT MSL. TREE 2062 FT FROM DER, 332 FT RIGHT OF CENTERLINE, 46 FT AGL/2626 FT MSL.
NOTE: RWY 11L, VENTS 115 FT FROM DER, 147 FT LEFT AND RIGHT OF CENTERLINE, 6 FT AGL/2646 FT MSL. MULTIPLE BUSHES BEGINNING 449 FT FROM DER, 395 FT LEFT OF CENTERLINE, UP TO 24 FT AGL/2674 FT MSL. MULTIPLE BUSHES BEGINNING 188 FT FROM DER, 328 FT RIGHT OF CENTERLINE, UP TO 13 FT AGL/2663 FT MSL.

QUALITY CHECKED 4

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NOTE: RWY 11R, TREE 584 FT FROM DER, 176 FT RIGHT OF CENTERLINE, 25 FT AGL/2645 FT MSL.
NOTE: RWY 21, BUSH 104 FT FROM DER, 256 FT LEFT OF CENTERLINE, 12 FT AGL/2572 FT MSL. RR 248 FT FROM DER, RIGHT TO LEFT OF CENTERLINE, 23 FT AGL/2582 FT MSL. BUSH 549 FT FROM DER, 384 FT LEFT OF CENTERLINE, 33 FT AGL/2583 FT MSL. TREE 701 FT FROM DER, 144 FT LEFT OF CENTERLINE, 37 FT AGL/2587 FT MSL. POLE 950 FT FROM DER, 166 FT LEFT OF CENTERLINE, 38 FT AGL/2588 FT MSL. POLE 1028 FT FROM DER, 89 FT LEFT OF CENTERLINE, 46 FT AGL/2599 FT MSL. POLE 1298 FT FROM DER, 594 FT LEFT OF CENTERLINE, 66 FT AGL/2616 FT MSL. ELECTRICAL SYSTEM 1445 FT FROM DER, 319 FT LEFT OF CENTERLINE, 55 FT AGL/2605 FT MSL. BUSH 141 FT FROM DER, 330 FT RIGHT OF CENTERLINE, 24 FT AGL/2574 FT MSL. BUSH 454 FT FROM DER, 138 FT RIGHT OF CENTERLINE, 26 FT AGL/2576 FT MSL. ELECTRICAL SYSTEM 1176 FT FROM DER, 37 FT RIGHT OF CENTERLINE, 48 FT AGL/2598 FT MSL. NOTE: RWY 29L, AIRCRAFT ON RAMP 2723 FT FROM DER, 348 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/2680 FT MSL. NOTE: RWY 29R, AIRCRAFT ON RAMP 2779 FT FROM DER, 1056 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/2680 FT MSL.

CONTROLLING OBSTACLES:

RWY 3, 11L/R, 21, 29 L/R: 8879 FT AAO 321312.33N/1103239.09W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 3, 11L/R, 21, 29 L/R - 9653 FT MSL AAO 314202.00N/1105034.30W, 9205 FT MSL TOWER 322629.28N/1104647.34W, 4060 FT MSL AAO 321123.40N/1110317.70W, 8879 FT AAO 321312.33N/1103239.09W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: J4, J50, V66

AIRPORTS SERVED:

TUCSON INTL TUCSON, AZ

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, TUS ATCT, TUS DEP CON, ASOS, ZAB

FIXES AND/OR NAVAIDS:

TFD VORTAC, BXK VORTAC

REMARKS:

MESCA TRANSITION TO SSO VORTAC MINIMUM ALT 9900 DUE TO RESTRICTION ON SSO VORTAC BETWEEN R-235 AND R-250 BYD 30 NM BLO 9900.
RWY CLIMB GRADIENTS CARRIED FORWARD FROM PREVIOUS AMENDMENT TO PROVIDE CONTINUITY.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TUCSON	EIGHT	TUS8.TUS	SEVEN	08/30/2007	20 SEP 2012

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        GBN   K2011660VTH  N32572253W112402738    N32572253W112402738E0140007902     NARGILA BEND
        SUSAD        PXR   K2011560VTHW N33255887W111581272    N33255887W111581272E0120011822     NARPHOENIX
        SUSAD        SSO   K2011540VTHA N32160928W109154712    N32160928W109154712E0130036002     NARSAN SIMON
        SUSAD        TUS   K2011600VTHA N32054274W110545348    N32054274W110545348E0120026722     NARTUCSON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BAYBI K20    R     N32455723W111055017                    E0105     NAR           BAYBI
        SUSAEAENRT   BBALL K20    C     N32575684W111292162                    E0106     NAR           BBALL
        SUSAEAENRT   MESCA K20    C   L N31533846W110290790                    E0102     NAR           MESCA
        SUSAEAENRT   REDDY K20    C     N32195137W110350002                    E0103     NAR           REDDY
        SUSAEAENRT   ROSKR K20    C     N32165412W111274210                    E0105     NAR           ROSKR

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KTUSK2ATUS     0     109YHN32065790W110562770E012002643         1800018000C    MNAR    TUCSON INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KTUSK2DTUS8  1RW03  010         0        CA                    0330        + 03043     18000
        SUSAP KTUSK2DTUS8  1RW03  020TUS  K2D 0VE  R   DF
        SUSAP KTUSK2DTUS8  1RW11B 010TUS  K2D 0VE      DF                                            18000
        SUSAP KTUSK2DTUS8  1RW21  010         0        CA                    2130        + 03043     18000
        SUSAP KTUSK2DTUS8  1RW21  020TUS  K2D 0VE  L   DF
        SUSAP KTUSK2DTUS8  1RW29B 010         0        CA                    3030        + 03043     18000
        SUSAP KTUSK2DTUS8  1RW29B 020TUS  K2D 0VE  R   DF
        SUSAP KTUSK2DTUS8  3BAYBI 010TUS  K2D 0V       IF                                            18000
        SUSAP KTUSK2DTUS8  3BAYBI 020BAYBIK2EA0EE      TF                    33510412
        SUSAP KTUSK2DTUS8  3BBALL 010TUS  K2D 0V       IF                                            18000
        SUSAP KTUSK2DTUS8  3BBALL 020BBALLK2EA0EE      TF                    31900597
        SUSAP KTUSK2DTUS8  3GBN   010TUS  K2D 0V       IF                                            18000
        SUSAP KTUSK2DTUS8  3GBN   020ROSKRK2EA0E       TF                    28000300
        SUSAP KTUSK2DTUS8  3GBN   030GBN  K2D 0VE      TF                    28900735
        SUSAP KTUSK2DTUS8  3MESCA 010TUS  K2D 0V       IF                                            18000
        SUSAP KTUSK2DTUS8  3MESCA 020MESCAK2EA0E       TF                    10670250
        SUSAP KTUSK2DTUS8  3MESCA 030SSO  K2D 0VE      TF                    05750662
        SUSAP KTUSK2DTUS8  3PXR   010TUS  K2D 0V       IF                                            18000
        SUSAP KTUSK2DTUS8  3PXR   020BBALLK2EA0E       TF                    31900597
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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
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SUSAP KTUSK2DTUS8  3PXR    030PXR  K2D 0VE      TF                    30700370
SUSAP KTUSK2DTUS8  3REDDY  010TUS  K2D 0V       IF                                          18000
SUSAP KTUSK2DTUS8  3REDDY  020REDDYK2EA0E       TF                    03800220
SUSAP KTUSK2DTUS8  3REDDY  030SSO  K2D 0VE      TF                    08050672
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                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KTUSK2GRW03     0070000330 N32070768W110572563+0100    +0751902564084150150R
        SUSAP KTUSK2GRW11L    0109961230 N32072413W110565248+0600    +0756402578000055150IITUS1
        SUSAP KTUSK2GRW11R    0084081230 N32070970W110564716+0700    +0758602585141055075R
        SUSAP KTUSK2GRW21     0070002130 N32075074W110563496-0100    +0753602569000050150R
        SUSAP KTUSK2GRW29L    0084083030 N32062072W110554966-0700    +0771802629000050075R
        SUSAP KTUSK2GRW29R    0109963030 N32060716W110552215-0600    +0776202643000053150R
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ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW03		010		CA		FB		033.0()		AA 03043	
	RW03	TUS	020		DF	R	FB					
	RW11B	TUS	010		DF		FB					
	RW21		010		CA		FB		213.0()		AA 03043	
	RW21	TUS	020		DF	L	FB					
	RW29B		010		CA		FB		303.0()		AA 03043	
	RW29B	TUS	020		DF	R	FB					
	BAYBI	TUS	010		IF		FB					
	BAYBI	BAYBI	020		TF		FB		335.1()	041.2		
	BBALL	TUS	010		IF		FB					
	BBALL	BBALL	020		TF		FB		319.0()	059.7		
	GBN	TUS	010		IF		FB					
	GBN	ROSKR	020		TF		FB		280.0()	030.0		
	GBN	GBN	030		TF		FB		289.0()	073.5		
	MESCA	TUS	010		IF		FB					
	MESCA	MESCA	020		TF		FB		106.7()	025.0		
	MESCA	SSO	030		TF		FB		057.5()	066.2		
	PXR	TUS	010		IF		FB					
	PXR	BBALL	020		TF		FB		319.0()	059.7		
	PXR	PXR	030		TF		FB		307.0()	037.0		
	REDDY	TUS	010		IF		FB					
	REDDY	REDDY	020		TF		FB		038.0()	022.0		
	REDDY	SSO	030		TF		FB		080.5()	067.2		

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GBN	N325722.53	W1124027.38	N3257.376	W11240.456
	PXR	N332558.87	W1115812.72	N3325.981	W11158.212
	SSO	N321609.28	W1091547.12	N3216.155	W10915.785
	TUS	N320542.74	W1105453.48	N3205.712	W11054.891
	BAYBI	N324557.23	W1110550.17	N3245.954	W11105.836
	BBALL	N325756.84	W1112921.62	N3257.947	W11129.360
	MESCA	N315338.46	W1102907.90	N3153.641	W11029.132
	REDDY	N321951.37	W1103500.02	N3219.856	W11035.000
	ROSKR	N321654.12	W1112742.10	N3216.902	W11127.702
	RW03	N320707.68	W1105725.63	N3207.128	W11057.427
	RW11L	N320724.13	W1105652.48	N3207.402	W11056.875
	RW11R	N320709.70	W1105647.16	N3207.162	W11056.786
	RW21	N320750.74	W1105634.96	N3207.846	W11056.583
	RW29L	N320620.72	W1105549.66	N3206.345	W11055.828
	RW29R	N320607.16	W1105522.15	N3206.119	W11055.369

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RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW03	02564	50
RW11L	02578	55
RW11R	02585	55
RW21	02569	50
RW29L	02629	50
RW29R	02643	53