

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
TUCSON	NINE	TUS9.TUS	EIGHT	09/20/2012	11/30/2023

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**DP ROUTE DESCRIPTION:**

TAKEOFF RWY 4: CLIMB ON HEADING 036.05 TO 3000 THEN CLIMBING RIGHT TURN ON HEADING 172.00 AND TUS R-018 TO TUS VORTAC, THENCE ...  
 TAKEOFF RWY 12: CLIMB ON HEADING 126.00 TO 4000 THEN CLIMBING LEFT TURN DIRECT TUS VORTAC, THENCE ...  
 TAKEOFF RWY 22: CLIMB ON HEADING 216.04 TO 3000 THEN CLIMBING LEFT TURN ON HEADING 078.00 AND TUS VORTAC R-227 TO TUS VORTAC, THENCE ...  
 TAKEOFF RWY 30: CLIMBING RIGHT TURN DIRECT TUS VORTAC. THENCE ...

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

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
GILA BEND	TUS9.GBN	TUS VORTAC	ROSKR	280.00	30.00	15000	6800	
		ROSKR	GBN VORTAC	288.99 (GBN R-109)	73.54	15000	6300	
PHOENIX	TUS9.PXR	TUS VORTAC	BBALL	318.95	59.72	6800	6800	
		BBALL	PXR VORTAC	307.00 (PXR R-127)	37.00	5300	5300	
BAYBI	TUS9.BAYBI	TUS VORTAC	BAYBI	335.06	41.21	8600	8600	
BBALL	TUS9.BBALL	TUS VORTAC	BBALL	318.95	59.72	6800	6800	
MESCA	TUS9.MESCA	TUS VORTAC	MESCA	106.69	25.00	7900	7900	
		MESCA	SSO VORTAC	057.50 (SSO R-238)	66.24	10600	10600	
REDDY	TUS9.REDDY	TUS VORTAC	REDDY	038.00	22.00	10100	10100	
		REDDY	SSO VORTAC	080.50 (SSO R-261)	67.24	10600	10600	

**PROCEDURAL DATA NOTES:**

**PBN REQUIREMENTS NOTES:**

**THIS IS A CORRECTED COPY PREVIOUSLY PUBLISHED IN NFDD 173.  
See page 3 for details.**

**EQUIPMENT REQUIREMENT NOTES:**

NOTE: DME REQUIRED.



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
TUCSON	NINE	TUS9.TUS	EIGHT	09/20/2012	11/30/2023

**TAKEOFF MINIMUMS:**

RWY 22, 30: STANDARD.  
 RWY 4: 300-2 OR STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 3000.  
 RWY 12: STANDARD WITH MINIMUM CLIMB OF 400 FT/NM TO 9900.

**TAKEOFF OBSTACLES NOTES:**

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

**CONTROLLING OBSTACLES:**

RWY 4: 2831 FT MSL TOWER 320907.00N/1105533.00W.  
 RWY 12: 8879 FT MSL AAO 321312.33N/1103239.09W

**MSA:**

MSA FROM TUS VORTAC, 10600

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KTUS 9E/2025  
 TUS VORTAC 12E/1995  
 TOP ALTITUDE: 17000  
 CHART: J4, J50, V66

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KTUS	TUCSON	AZ

**COMMUNICATIONS:**

CHART: ATIS, CLNC DEL, GND CON, TUS ATCT, ZAB

**FIXES AND/OR NAVAIDS:**

TFD VORTAC, BXX 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.  
 AFS APPROVAL REQUEST TO RETAIN RWY 12 DEPARTURE PROCEDURE AS IS CURRENTLY PUBLISHED FOR THIS AMDT.  
 DO NOT CHART MOCA: FROM TUS VORTAC TO BBALL, BBALL TO PXR VORTAC, TUS VORTAC TO BAYBI, TUS VORTAC TO MESCA, MESCA TO SSO VORTAC, TUS VORTAC TO REDDY, REDDY TO SSO VORTAC.  
 MEA AT ROSKR 15000 DUE TO RECEPTION FROM GBN VORTAC - ESV IN PLACE.

**FLIGHT INSPECTED BY**

PENDING

*Digitally signed by*  
**CASIMIR L TABAKA**  
 Aug 28, 2023

**OFFICE**                      **DATE**

**DEVELOPED BY**

TYLER MITCHELL

*Digitally signed by*  
**TYLER D MITCHELL**  
 Aug 16, 2023

**OFFICE**                      **DATE**  
 AJV-A432                      06/07/2023

**APPROVED BY**

CASIMIR TABAKA

*Digitally signed by*  
**CASIMIR L TABAKA**  
 Aug 28, 2023

**OFFICE**                      **DATE**                      **TITLE**  
 AJV-A432                                                                MANAGER



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
TUCSON	NINE	TUS9.TUS	EIGHT	09/20/2012	11/30/2023

**REQUIRED EFFECTIVE DATE**

11/30/2023

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZAB, TUS ATCT, AMGR.

**CHANGES - REASONS:**

1. RWY 3/21 CHANGED TO RWY 4/22, RWY 11L/29R CHANGED TO RWY 12/30, RWY 11R/29L REMOVED. - AIRPORT MAGVAR CHANGED FROM 12E/1995 TO 9E/2025, RUNWAYS RENUMBERED, RUNWAY DECONSTRUCTED.
2. RWY 4 TEXTUAL DEPARTUREPROCEDURE CHANGED FROM "CLIMBING RIGHT TURN DIRECT TO TUS VORTAC." TO "CLIMB ON HEADING 036.05 TO 3000 THEN CLIMBING RIGHT TURN ON HEADING 172.00 AND TUS R-018 TO TUS VORTAC." - CRITERIA WAS NO LONGER ABLE TO SUSTAIN PREVIOUS DESIGN, NEW DESIGN IAW CRITERIA.
3. RWY 22 TEXTUAL DEPARTURE PROCEDURE CHANGED FROM "CLIMBING LEFT TURN DIRECT TO TUS VORTAC " TO "CLIMB ON HEADING 216.04 TO 3000 THEN CLIMBING LEFT TURN ON HEADING 078.00 AND TUS VORTAC R-227 TO TUS VORTAC." - CRITERIA WAS NO LONGER ABLE TO SUSTAIN PREVIOUS DESIGN, NEW DESIGN IAW CRITERIA.
4. TAKEOFF MINIMUMS FOR RWY 4 CHANGED FROM STANDARD WITH A MINIMUM CLIMB OF 400 FT PER NM TO 9900 TO 300-2 OR STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 3000. - CONTROLLING OBSTACLE DRIVING CG AND CGTA.
5. TAKEOFF MINIMUMS FOR RWY RWY 30 CHANGED FROM STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 9900 TO STANDARD. - NO OBSTACLES PENETRATE THE 40:1.
6. TAKEOFF MINIMUMS FOR RWY 22 CHANGED FROM STANDARD WITH MINIMUM CLIMB OF 380 FT PER NM TO 9900 TO STANDARD. - NO OBSTACLES PENETRATE THE 40:1.
7. REMOVED NOTE DURING RADAR OPERATIONS AIRCRAFT WILL RECEIVE RADAR VECTORS TO APPROPRIATE TRANSITION. - NO LONGER REQUIRED.
8. TAKEOFF OBSTACLE NOTES REMOVED AND "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)." ADDED - IAW 8250.46J
9. CONTROLLING OBSTACLE FOR RWY 4/22/30 "8879 FT AAO 321312.33N/1103239.09W" REMOVED. CONTROLLING OBSTACLE FOR RWY 4: 2831 FT MSL TOWER 320907.00N/1105533.00W ADDED - NEW OBSTACLE EVALUATION.
10. OBSTACLES MANDATING ROUTE DEVELOPMENT REMOVED. - NOT REQUIRED FOR A SID.
11. ADDED ADDITIONAL FLIGHT DATA CHART TOP ALTITUDE: 17000. - ATC REQUEST.
12. ADDED MSA FROM TUS VORTAC, 10600 - IAW 8260.46J
13. REMOVED PROCEDURAL DATA NOTE: ALL RUNWAYS- GILA BEND TRANSITION REQUIRES MINIMUM CLIMB OF 405 FT PER NM TO 15000. - CG NO LONGER REQUIRED FOR OBSTACLE CLEARANCE.
14. ADDED ADDITIONAL FLIGHT DATA: REFERENCE MAG VAR: KTUS 9E/2025, TUS 12E/1995 - IAW 8260.46J
15. MEA'S UPDATED TO LOWEST MEA VALUE - IAW 8260.46J.
16. ADDED REMARK: MEA AT ROSKR 15000 DUE TO RECEPTION FROM GBN VORTAC - ESV FROM GBN VORTAC MIN ALT 15000.

10/13/2023: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/28/2023.

1. REDDY TRANSITION, CHANGED THE RADIAL FROM REDDY TO SSO VORTAC FROM R-262 TO R-261.

