

**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SUPERSEDED NUMBER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>
ALAMO	FIVE	ALAMO5.ALAMO	FOUR	10/31/2024	<b>07 AUG 2025</b>

<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:**

DEPARTING SAN ANTONIO INTL (KSAT):

TAKEOFF RWY 4, 13L, 13R, 22, 31L, 31R: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SAT VORTAC, MAINTAIN 5000, THEN ON TRANSITION/ROUTE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

DEPARTING STINSON MUNI (KSSF):

TAKEOFF RWY 10: CLIMB ON HEADING 99.53 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO SAT VORTAC, THENCE...

TAKEOFF RWY 14: CLIMB ON HEADING 142.36 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO SAT VORTAC, THENCE...

TAKEOFF RWY 28: CLIMB ON HEADING 279.53 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO SAT VORTAC, THENCE...

TAKEOFF RWY 32: CLIMB ON HEADING 322.36 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO SAT VORTAC, THENCE...

...ON TRANSITION/ROUTE. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT 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>
GOBBY	ALAMO5.GOBBY	SAT VORTAC	GOBBY	002.11 (SAT R-002)	26.68	3500	3000	
GOOCH SPRINGS	ALAMO5.AGJ	SAT VORTAC	GOBBY	002.11 (SAT R-002)	26.68	3500	3000	
		GOBBY	AGJ VORTAC	002.11 & 005.26 (SAT R-002 & AGJ R-185)	67.06	3500	3100	
HENLY	ALAMO5.HENLY	SAT VORTAC	HENLY	359.25 (SAT R-359)	28.00	3500	3100	
JUMBO	ALAMO5.JUMBO	SAT VORTAC	HENLY	359.25 (SAT R-359)	28.00	3500	3100	
		HENLY	JUMBO	359.25 (SAT R-359)	86.20	FL180	3200	

**PBN REQUIREMENT NOTES:**

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED.

**PROCEDURAL DATA NOTES:**

CHART NOTE: GOBBY TRANSITION: RIGHT TURN AT GOBBY NA FOR AIRCRAFT REQUIRED FL240 AND ABOVE.

CHART NOTE: HENLY TRANSITION: RIGHT TURN AT HENLY NA FOR AIRCRAFT REQUIRED FL240 AND ABOVE.

**TAKEOFF MINIMUMS:**

SAN ANTONIO INTL (KSAT):

RWY 4, 13L, 13R, 22, 31L, 31R: STANDARD.

STINSON MUNI (KSSF)

RWY 10: STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 1900.



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ALAMO	FIVE	ALAMO5.ALAMO	FOUR	10/31/2024	<b>07 AUG 2025</b>

RWY 14: STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 1900.  
 RWY 28: 300-1 5/8 OR STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 900, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1800 FT PRIOR TO DER.  
 RWY 32: STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 1700.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**

STINSON MUNI (KSSF):

RWY 10: 1546 FT MSL TOWER (48-004668) 291938.75N/0982117.63W  
 RWY 14: 1546 FT MSL TOWER (48-004668) 291938.75N/0982117.63W  
 RWY 28: 802 FT MSL TANK (48-005287) 292048.87N/0983016.57W  
 RWY 32: 1379 FT MSL TOWER (48-001577) 292509.00N/0982901.00W

**MSA:**

KSAT: MSA FROM SAT VORTAC 225-315 4100, 315-225 3300  
 KSSF: MSA FROM SAT VORTAC 225-315 4100, 315-225 3300

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

CHART: V163 ON GOOCH SPRINGS TRANSITION; J23-131 ON JUMBO TRANSITION.  
 CHART: STV R-105; CWK R-244; BWD R-110; CVE R-213; AGJ R-350  
 SAN ANTONIO INTL (KSAT) - CHART: TOP ALTITUDE: 5000  
 STINSON MUNI (KSSF) - CHART: TOP ALTITUDE: ASSIGNED BY ATC  
 AIRPORT MV: SAT (P) 4E/2020, SSF 3E/2025

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KSAT	SAN ANTONIO	TX
KSSF	SAN ANTONIO	TX

**COMMUNICATIONS:**

SAN ANTONIO INTL (KSAT): CHART ATIS, GND CON, ASOS, CLNC DEL, ATCT  
 STINSON MUNI (KSSF): CHART ATIS, GND CON, ASOS, CLNC DEL, ATCT

**FIXES AND/OR NAVAIDS:**

BWD VOR/DME; CWK VORTAC; CVE VOR/DME; STV VORTAC

**REMARKS:**

DO NOT CHART MOCA: FROM SAT VORTAC TO HENLY, GOBBY TO AGJ VORTAC  
 KSAT AND KSSF MSA SECTOR 315-225 MINIMUM REQUIRED ALTITUDE PER OBSTACLE EVALUATION IS 3200. RETAINED 3300 VALUE TO ALIGN WITH OTHER PUBLISHED CONVENTIONAL PROCEDURES. 315-225 MSA SECTOR CONTROLLING OBSTACLE: 3049 FT MSL TOWER (48-005142) 293639N/0985334W, 225-315 MSA SECTOR CONTROLLING OBSTACLE: 2195 FT MSL AAO 300436N/0984009W.  
 MEA FROM SAT VORTAC TO GOBBY, GOBBY TO AGJ VORTAC, SAT VORTAC TO HENLY BASED ON AIRSPACE. MEA FROM SAT VORTAC TO JUMBO BASED ON SAT VORTAC ESV.  
 WAIVER TO FAA ORDER 8260.46 MEMORANDUM TO PERMIT ATC ISSUING A RANGE OF INITIAL HEADINGS WITH A MAINTAINED ALTITUDE LOWER THAN THE UNRESTRICTED CLIMB ALLOWED BY TERPS - ATC OPERATIONAL REQUIREMENT



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ALAMO	FIVE	ALAMO5.ALAMO	FOUR	10/31/2024	<b>07 AUG 2025</b>

<b><u>FLIGHT INSPECTED BY</u></b>	<b><u>SIGNATURE</u></b>	<i>Digitally signed by</i>	<b><u>OFFICE</u></b>	<b><u>DATE</u></b>
HANNAH WIESNESKI		<b>ALLAN WILL</b>	AJF	04/24/2025
		Apr 25, 2025		

<b><u>DEVELOPED BY</u></b>	<b><u>SIGNATURE</u></b>	<i>Digitally signed by</i>	<b><u>OFFICE</u></b>	<b><u>DATE</u></b>
RAYMOND JOHNSON		<b>ALLAN WILL</b>	AJV-A423	12/16/2024
		Apr 25, 2025		

<b><u>APPROVED BY</u></b>	<b><u>SIGNATURE</u></b>	<i>Digitally signed by</i>	<b><u>OFFICE</u></b>	<b><u>DATE</u></b>	<b><u>TITLE</u></b>
ALLAN WILL		<b>ALLAN WILL</b>	AJV-A423		MANAGER
		Apr 25, 2025			

**REQUIRED EFFECTIVE DATE**  
ROUTINE

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:**ZHU, SAT APP CON, SAT ATCT, SSF ATCT, AMGR, STATE AVIATION DIRECTOR

**CHANGES - REASONS:**

1. DP ROUTE DESCRIPTION, TAKEOFF MINIMUMS, AND CONTROLLING OBSTACLES: AT STINSON MUNI (KSSF) ALL REFERENCES TO RWY 9 CHANGED TO RWY 10 AND ALL REFERENCES TO RWY 27 CHANGED TO RWY 28 - RUNWAY RENUMBERD DUE TO STINSON MUNI KSSF AIRPORT MAGVAR CHANGED FROM 8E TO 3E.
2. DP ROUTE DESCRIPTION DEPARTING SAN ANTONIO INTL (KSAT): CHANGED FROM TAKEOFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SAT VORTAC, THEN ON TRANSITION/ROUTE. MAINTAIN 5000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE TO TAKEOFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SAT VORTAC, MAINTAIN 5000, THEN ON TRANSITION/ROUTE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE - UPDATE FORMAT.
3. DP ROUTE DESCRIPTION DEPARTING STINSON MUNI (KSSF): CHANGED **FROM** TAKEOFF RWY 9, 27: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SAT VORTAC. THENCE..., TAKEOFF RWY 14: CLIMB ON HEADING 137.36 TO 1200 BEFORE TURNING LEFT FOR RADAR VECTORS TO SAT VORTAC. THENCE..., TAKEOFF RWY 32: CLIMB ON HEADING 317.36 TO 1500 BEFORE TURNING RIGHT FOR RADAR VECTORS TO SAT VORTAC. THENCE... **TO** TAKEOFF RWY 10: CLIMB ON HEADING 99.53 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO SAT VORTAC, THENCE, TAKEOFF RWY 14: CLIMB ON HEADING 142.36 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO SAT VORTAC, THENCE, TAKEOFF RWY 28: CLIMB ON HEADING 279.53 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO SAT VORTAC, THENCE, AND TAKEOFF RWY 32: CLIMB ON HEADING 322.36 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO SAT VORTAC, THENCE...- PER SAT TRACON TO DECONFLICT TRAFFIC AND ADJUST WITH SEQUENCING.
4. STINSON MUNI (KSSF) TAKEOFF MINIMUMS: CHANGED **FROM** STINSON MUNI (KSSF): TAKEOFF RWY 14, 32: STANDARD, TAKEOFF RWY 9: STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 1900, TAKEOFF RWY 27: 300-1 5/8 OR STANDARD WITH MINIMUM CLIMB OF 225 FT/NM TO 900, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1800 FEET PRIOR TO DER **TO** RWY 10: STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 1900, RWY 14: STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 1900, RWY 28: 300-1 5/8 OR STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 900, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1800 FT PRIOR TO DER, RWY 32: STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 1700 - MOVED RWY 14 AND 32 ALTITUDES FROM DP ROUTES DESCRIPTION AND UPDATED CLIMB GRADIENTS FER FPT FOR SEQUENCING AND AIR TRAFFIC DECONFLICTION.
5. ADDITIONAL FLIGHT DATA: CHANGED FROM AIRPORT MV: SAT (P) 4E/2020, SSF 8E/1980 TO AIRPORT MV: SAT (P) 4E/2020, SSF 3E/2025 - STINSON MUNI KSSF MAGVAR CHANGED FROM 8E TO 3E.
6. CONTROLLING OBSTACLES: CHANGED **FROM** RWY 9: 1546 FT MSL TOWER 291938.75N/0982117.63W, RWY 27: 802 FT MSL TANK 292048.87N/0983016.57W **TO** RWY 10: 1546 FT MSL TOWER (48-004668) 291938.75N/0982117.63W, RWY 14: 1546 FT MSL TOWER (48-004668) 291938.75N/0982117.63W, RWY 28: 802 FT MSL TANK (48-005287) 292048.87N/0983016.57W, RWY 32: 1379 FT MSL TOWER (48-001577) 292509.00N/0982901.00W - CLIMB GRADIENTS MOVED TO TAKEOFF MINIMUMS FOR SEQUENCING AND RADAR VECTORS IN DP ROUTE DESCRIPTION.
7. REMOVED OBSTACLES MANDAITING ROUTE DESCRIPTION - CLIMB GRADIENTS MOVED TO TAKEOFF MINIMUMS FOR SEQUENCING AND RADAR VECTORS IN DP ROUTE DESCRIPTION.

