

**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SUPERSEDED NUMBER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	FOUR	ALAMO4.ALAMO	THREE	03/26/2020	31 OCT 2024

<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"/>

THIS IS A CORRECTED COPY OF THIS PROCEDURE PREVIOUSLY PUBLISHED IN NFDD #163.

DP ROUTE DESCRIPTION:

DEPARTING SAN ANTONIO INTL (KSAT):

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.

DEPARTING STINSON MUNI (KSSF):

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...

...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	ALAMO4.GOBBY	SAT VORTAC	GOBBY	002.11 (SAT R-002)	26.68	3500	3000	
GOOCH SPRINGS	ALAMO4. 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	ALAMO4.HENLY	SAT VORTAC	HENLY	359.25 (SAT R-359)	28.00	3500	3100	
JUMBO	ALAMO4.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 ACFT REQ FL240 AND ABV

CHART NOTE: HENLY TRANSITION: RIGHT TURN AT HENLY NA FOR ACFT REQ FL240 AND ABV



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TAKEOFF MINIMUMS:

SAN ANTONIO INTL (KSAT):

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

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.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

STINSON MUNI (KSSF):

RWY 9: 1546 FT MSL TOWER 291938.75N/0982117.63W

RWY 27: 802 FT MSL TANK 292048.87N/0983016.57W

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 14: 1546 FT MSL TOWER 291938.75N/0982117.63W

RWY 32: 1379 FT MSL TOWER 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 8E/1980

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



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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

FLIGHT INSPECTED BYJEFFREY J SCORSE
Digitally signed by
JOSEPH L ZEDER**SIGNATURE****OFFICE**

FPO

DATE

08/15/2024

DEVELOPED BY

JON NEIDIGH

Aug 16, 2024

SIGNATURE*Digitally signed by*
JON M NEIDIGH
May 31, 2024**OFFICE**

AJV-432

DATE

12/01/2023

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA

Jun 05, 2024

SIGNATURE**OFFICE**

AJV-A432

DATE**TITLE**

MANAGER

REQUIRED EFFECTIVE DATE**COORDINATED WITH:****A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:**ZHU, SAT APP CON, SAT ATCT, SSF ATCT, AMGR, STATE AVIATION DIRECTOR**CHANGES - REASONS:**

1. CHANGED KSAT DP ROUTE DESCRIPTION FROM "TAKEOFF RWY 4, 13L, 13R, 22, 31L, 31R: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SAT VORTAC. MAINTAIN 5000, THENCE..." TO "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" - "THENCE" STATEMENT NOT REQUIRED DUE TO ALL RUNWAYS SHARING COMMON INSTRUCTIONS
2. CHANGED KSSF DP ROUTE DESCRIPTION RWY 9, 27 FROM "CLIMB ON ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO SAT VORTAC, THENCE..." TO "CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SAT VORTAC. THENCE..." - ATC ELECTED NOT TO PUBLISH NUMERICAL TOP ALTITUDE IAW 8260.46J 3-1-1.L.(6)
3. CHANGED KSSF DP ROUTE DESCRIPTION RWY 14 FROM "CLIMB ON HEADING 137.36 TO 1200 BEFORE TURNING LEFT FOR RADAR VECTORS TO SAT VORTAC, THENCE..." TO "CLIMB ON HEADING 137.36 TO 1200 BEFORE TURNING LEFT FOR RADAR VECTORS TO SAT VORTAC. THENCE..." - ATC ELECTED NOT TO PUBLISH NUMERICAL TOP ALTITUDE IAW 8260.46J 3-1-1.L.(6)
4. CHANGED KSSF DP ROUTE DESCRIPTION RWY 32 FROM "CLIMB ON HEADING 317.37 TO 1500 BEFORE TURNING RIGHT FOR RADAR VECTORS TO SAT VORTAC, THENCE..." TO "CLIMB ON HEADING 317.36 TO 1500 BEFORE TURNING RIGHT FOR RADAR VECTORS TO SAT VORTAC. THENCE..." - ATC ELECTED NOT TO PUBLISH NUMERICAL TOP ALTITUDE IAW 8260.46J 3-1-1.L.(6)
5. CHANGED KSSF DP ROUTE DESCRIPTION FROM "ON TRANSITION/ROUTE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE." TO "ON TRANSITION/ROUTE. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE." - ATC ELECTED NOT TO PUBLISH NUMERICAL TOP ALTITUDE IAW 8260.46J 3-1-1.L.(6)
6. UPDATED TRANSITION COMPUTER CODES FROM ALAMO3 TO ALAMO4 - MATCHES UPNUMBERED PROCEDURE
7. CHANGED COURSE SAT VORTAC TO GOBBY FROM 002.10 TO 002.11 - TARGETS CALCULATED VALUE
8. INCREASED MEA SAT VORTAC TO HENLY FROM 3100 TO 3500 - CONTAINMENT OF SEGMENT IN CONTROLLED AIRSPACE
9. CHANGED MEA SAT TO JUMBO FROM 18000 TO FL180 - 8260.3E 2-1-5.B
10. ADDED MOCA VALUES FOR ALL SEGMENTS - 8260.46J APPENDIX D, SECTION 2.2.D.(8)
11. MOVED RADAR REQUIRED NOTE FROM PROCEDURAL DATA NOTES TO EQUIPMENT REQUIREMENT NOTES - 8260.46J 2-1-1.F
12. KSSF RWY 9 TAKEOFF MINIMUM CLIMB GRADIENT INCREASED FROM 225 FT PER NM TO 230 FT/NM - UPDATED 8260.3E CRITERIA
13. KSSF RWY 27 TAKEOFF MINIMUM VISIBILITY DECREASED FROM 1 3/4 SM TO 1 5/8SM, CLIMB GRADIENT INCREASED FROM 221 FT PER NM TO 225 FT/NM, RTRL INCREASED FROM 1700 FT PRIOR TO DER TO 1800 FT PRIOR TO DER - NEW SURVEY DATA FOR PREVIOUS CONTROLLING OBSTACLE
14. KSSF RWY 27 CONTROLLING OBSTACLE CHANGED FROM 799 FT MSL TANK 292049.00N/0983017.00W TO 802 FT MSL TANK 292048.87N/0983016.57W - NEW SURVEY DATA
15. KSSF RWYS 14 AND 32 ADDED OBSTACLES MANDATING ODP ROUTE DEVELOPMENT - 8260.46J APPENDIX D, SECTION 2.2.J.(3)
16. ADDED KSAT AND KSSF MSA FROM SAT VORTAC 225-315 4100, 315-225 3300 - 8260.46J APPENDIX D, SECTION 2.2.K.
17. ADDED PROCEDURAL DATA NOTES "RIGHT TURN AT GOBBY NA FOR ACFT REQ FL240 AND ABV" AND "RIGHT TURN AT HENLY NA FOR ACFT REQ FL240 AND ABV" - PER ATC/FPT REQUEST
18. ADDITIONAL FLIGHT DATA ADDED STINSON MUNI (KSSF) - CHART: TOP ALTITUDE: ASSIGNED BY ATC - ATC ELECTED NOT TO PUBLISH NUMERICAL TOP ALTITUDE

QUALITY
8
CHECKED

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19. MAG VAR FORMAT UPDATED FROM "REFERENCE MAG VAR: KSAT E4/2020" TO "AIRPORT MV: SAT (P) 4E/2020, SSF 8E/1980" - POLICY MEMO, SUBJECT: MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES DATED JULY 15, 2022
20. ADDED "CHART" AND REMOVED DEP CON FROM KSAT AND KSSF COMMUNICATIONS - 8260.46J APPENDIX D, SECTION 2.2.O.
21. ADDED REMARK "DO NOT CHART MOCA: FROM SAT VORTAC TO HENLY, GOBBY TO AGJ VORTAC" - POLICY MEMO: SUBJECT: CLARIFICATION TO 8260.46, DEPARTURE PROCEDURE (DP) PROGRAM, MOCA DOCUMENTATION DATED 1 JUL 2021
22. ADDED SSF ATCT TO COORDINATED WITH SECTION - COORDINATION REQUIRED WITH AFFECTED ATC FACILITY
23. ADDED EXPLANATION FOR HIGHER THAN REQUIRED MSA ALTITUDES TO REMARKS SECTION - CLARIFICATION FOR FUTURE SPECIALISTS
24. ADDED EXPLANATION FOR SAT-GOBBY, GOBBY-AGJ, SAT-HENLY MEA VALUES TO REMARKS SECTION - CLARIFICATION FOR FUTURE SPECIALISTS
25. ADDED EXPLANATION OF WAIVER TO REMARKS SECTION - CLARIFICATION FOR FUTURE SPECIALISTS

09/05/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/05/2024.

FIXES AND/OR NAVAIDS: CHANGED BWD VORTAC AND CVE VORTAC TO BWD VOR/DME AND CVE VOR/DME.

QUALITY
8
CHECKED