

**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.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>Arrival Name</u>	<u>Number</u>	<u>STAR Computer Code</u>	<u>Superseded Number</u>	<u>Dated</u>	<u>Effective Date</u>
<b>MARCS</b>	<b>ONE</b>	<b>MARCS.MARCS1</b>	<b>NINE</b>	<b>12/17/2009</b>	<b>03/02/2017</b>

**TRANSITION ROUTES:**

Transition Name	Transition Computer Code	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitude/Fixes
CENTEX	CWK.MARCS1	CWK VORTAC	CWK VORTAC						
			MARCS	205.02 (CWK R-205)	33.55	4000			
INDUSTRY	IDU.MARCS1	IDU VORTAC	IDU VORTAC						
			CRAYS	259.38 (IDU R-259)	45.46	4000			
			MARCS	259.38 (IDU R-259)	22.36	4000			
LUFKIN	LFK.MARCS1	LFK VORTAC	LFK VORTAC						
			IDU VORTAC	228.40 & 224.47 (LFK R-228 & IDU R-044)	119.80	14000			
			CRAYS	259.38 (IDU R-259)	45.46	4000			
			MARCS	259.38 (IDU R-259)	22.36	4000			
WACO	ACT.MARCS1	ACT VORTAC	ACT VORTAC						
			BLEWE	164.53 (ACT R-165)	27.39	13000			
			CWK VORTAC	192.39 (CWK R-012)	52.33	13000			
			MARCS	205.02 (CWK R-205)	33.55	4000			
WINDU	WINDU.MARCS1	WINDU	WINDU						

QUALITY  
17  
CHECKED

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<b>MARCS</b>	<b>ONE</b>	<b>MARCS.MARCS1</b>	<b>NINE</b>	<b>12/17/2009</b>	<b>03/02/2017</b>
	BLEWE	192.39 (CWK R-012)	20.39	13000	
	CWK VORTAC	192.39 (CWK R-012)	52.33	13000	
	MARCS	205.02 (CWK R-205)	33.55	4000	

**ARRIVAL ROUTE DESCRIPTION:**

...FROM OVER MARCS ON SAT R-055.99 TO BRAUN, THEN ON SAT R-055.99 TO TROOP. THENCE...

SAN ANTONIO INTL (SAT):

LANDING RWY 13R:

...ON SAT R-055.99 TO CRISS. DEPART CRISS HEADING 300.00 FOR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 31L:

...DEPART TROOP HEADING 140.00 FOR VECTORS TO FINAL APPROACH COURSE.

LANDING ALL OTHER RUNWAYS:

...ON SAT R-055.99 TO CRISS. EXPECT VECTORS TO FINAL APPROACH COURSE.

ALL OTHER AIRPORTS:

. ...ON SAT R-055.99 TO CRISS. EXPECT VECTORS TO FINAL APPROACH COURSE.

**PROCEDURAL DATA NOTES:**

TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION: EXPECT CLEARANCE TO CROSS MARCS AT 13000.

NOTE: RADAR REQUIRED.

**FIXES AND/OR HOLDING PATTERNS:**

CHART: KSAT LOCALIZERS I-ANT (RWY 13R), I-IZR (RWY 31L), I-SAT (RWY 4).

CHART: HOLDING AT CRAYS, E, RT, 259.38 INBOUND.

**COMMUNICATIONS:**

SAT APP CON

ATIS: RND, SAT, SKF, SSF

**AIRPORTS SERVED:**

AIRPORT NAME	CITY	STATE
SAN ANTONIO INTL	SAN ANTONIO	TX
RANDOLPH AFB	UNIVERSAL CITY	TX
KELLY FLD	SAN ANTONIO	TX
STINSON MUNI	SAN ANTONIO	TX

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<u>Arrival Name</u>	<u>Number</u>	<u>STAR Computer Code</u>	<u>Superseded Number</u>	<u>Dated</u>	<u>Effective Date</u>
MARCS	ONE	MARCS.MARCS1	NINE	12/17/2009	03/02/2017

**LOST COMMUNICATIONS PREFERENCES:**

**REMARKS:**

**ADDITIONAL FLIGHT DATA:**

CHART: COP LFK/70 DME AND IDU/50 DME

**FLIGHT INSPECTED BY:**

FLIGHT INSPECTION NOT REQUIRED

**ORGANIZATION:**

LONNIE EVERHART, MANAGER

**DATE:**

10/13/2009

Flight Inspected Signature:

*Digitally signed by*

**LONNIE EVERHART**

Jan 18, 2017

**DEVELOPED BY:**

MIKE MC GHEE, SUPPORT MANAGER, OPERATIONS SUPPORT

ATO-CSB-ZHU

08/16/2016

Developed By Signature:

**MIKE MCGHEE**

Digitally signed by MIKE MCGHEE  
DN: cn=MIKE MCGHEE, o=Federal Aviation Administration, ou=ATO-  
CSB-ZHU/SM/OS, email=mike.mcgee@faa.gov, c=US  
Date: 2016.08.16 14:36:12 -0500

**APPROVED BY:**

MARLON ROBINSON, MANAGER

AJV-531

10/22/2016

Approved By Signature:

*Digitally signed by*

**LONNIE EVERHART**

Jan 18, 2017

**CHANGES:**

1. DELETED NOTE, "ASSIGNED BY ATC ONLY."
2. LOCALIZER DEPICTION REVISED TO REFLECT NEW RWY NUMBERS.
3. DELETED NOTE, "FOR SAT INTL LANDING RWY 12R, DEPART CRISS INT HEADING 300." MOVED TO ARRIVAL ROUTE DESCRIPTION.
4. DELETED NOTE, "FOR SAT INTL LANDING RWY 30L, DEPART TROOP INT HEADING 140." MOVED TO ARRIVAL ROUTE DESCRIPTION.
5. ARRIVAL ROUTE DESCRIPTION REFORMATTED TO INCLUDE PREVIOUS PROCEDURAL NOTES.
6. REMOVED FIX AND NAVAID CHARTING INSTRUCTIONS FROM FIXES AND/OR HOLDING PATTERNS.

**REASONS:**

1. ATC REQUEST.
2. SAT ARPT MAGVAR CHANGE TO 4E/2020. SAT RWYS 12/30 L/R WILL BECOME RWYS 13/31 L/R.
- 3/4/5. MOVES COURSE GUIDANCE TO THE APPROPRIATE LOCATION.
6. FIXES NOW PART OF ARRIVAL ROUTE DESCRIPTION, NAVAIDS CHARTED IAW 8260-2 DOCUMENTATION.

01/17/2017: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/16/2016:

1. ADDED EFFECTIVE DATE 03/02/2017.