

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.
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Arrival Name		Number	STAR Computer Code	Superseded Number	Dated	Effective Date			
QERVO (RNAV)		THREE	MARCS.QERVO3	TWO	10/02/2025				
TRANSITION ROUTES:									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
ANNGY	ANNGY.QERVO3	ANNGY	ANNGY						
			WEEED	218.91	112.36	13000	2800		
			WAILN	270.98	20.41	13000	2800		
			HOSAY	270.86	27.10	13000	2800		AT/ABOVE FL240
			RODIO	270.64	18.40	13000	2800		
			MARCS	270.44	22.01	13000	2800		BETWEEN 13000 AND 15000
BLEWE	BLEWE.QERVO3	BLEWE	BLEWE						
			OUTLW	194.55	52.34	13000	3600		
			MARCS	207.02	33.54	13000	2800		BETWEEN 13000 AND 15000
CAAGE	CAAGE.QERVO3	CAAGE	CAAGE						
			WEEED	252.51	44.89	13000	2800		
			WAILN	270.98	20.41	13000	2800		
			HOSAY	270.86	27.10	13000	2800		AT/ABOVE FL240
			RODIO	270.64	18.40	13000	2800		
			MARCS	270.44	22.01	13000	2800		BETWEEN 13000 AND 15000
MOLLR	MOLLR.QERVO3	MOLLR	MOLLR						
			WEEED	275.11	47.87	13000	2800		
			WAILN	270.98	20.41	13000	2800		
			HOSAY	270.86	27.10	13000	2800		AT/ABOVE FL240
			RODIO	270.64	18.40	13000	2800		
			MARCS	270.44	22.01	13000	2800		BETWEEN 13000 AND 15000
WAILN	WAILN.QERVO3	WAILN	WAILN						
			HOSAY	270.86	27.10	13000	2800		AT/ABOVE FL240
			RODIO	270.64	18.40	13000	2800		
			MARCS	270.44	22.01	13000	2800		BETWEEN 13000 AND 15000
WINDU	WINDU.QERVO3	WINDU	WINDU						

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QERVO (RNAV)			THREE	MARCS.QERVO3		TWO			10/02/2025	
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes	
			BLEWE	194.62	20.39	13000	3600			
			OUTLW	194.55	52.34	13000	3600			
			MARCS	207.02	33.54	13000	2800		BETWEEN 13000 AND 15000	

ARRIVAL ROUTE DESCRIPTION:

SAT: FROM MARCS ON TRACK 245.44/4.92 TO CROSS PGOUT BETWEEN 11000 AND 13000 AND AT 280 KIAS, THEN ON TRACK 245.04/4.65 TO QERVO.

LANDING SAT RWY 4: FROM QERVO ON TRACK 217.36/15.17 TO CROSS TEXNN BETWEEN 8000 AND 9000, THEN ON TRACK 217.27/5.95 TO CROSS JEFRE AT OR ABOVE 7000, THEN ON TRACK 217.23/8.01 TO CROSS MCRTY AT 6000 AND AT 210 KIAS, THEN ON TRACK 217.23. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING SAT RWY 13R: FROM QERVO ON TRACK 245.12/6.83 TO CROSS TAHKO AT OR BELOW 11000, THEN ON TRACK 245.14/7.00 TO CROSS FJITA AT OR BELOW 8000, THEN ON TRACK 245.05/4.50 TO TRTLA, THEN ON TRACK 245.70/3.91 TO CROSS SALZA AT 6000 AND AT 210 KIAS, THEN ON TRACK 268.13/7.29 TO DOMNK, THEN ON TRACK 307.53/1.33 TO CROSS CARNE AT 6000, THEN ON TRACK 307.53. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING SAT RWY 22: FROM QERVO ON TRACK 274.02/16.53 TO CROSS TRITP AT 7000 AND AT 210 KIAS, THEN ON TRACK 274.02. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING SAT RWY 31L: FROM QERVO ON TRACK 228.58/10.49 TO DERRR, THEN ON TRACK 227.72/11.14 TO CROSS COMUT AT 6000 AND AT 210 KIAS, THEN ON TRACK 163.84/5.24 TO ALRGI, THEN ON TRACK 127.62/4.50 TO CROSS XLANT AT 6000, THEN ON TRACK 127.62. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING SKF/BAZ/CVB/SSF/PEZ/5C1/RND: FROM MARCS ON TRACK 245.44/4.92 TO CROSS PGOUT BETWEEN 11000 AND 13000 AND AT 280 KIAS, THEN ON TRACK 245.04/4.65 TO QERVO, THEN ON TRACK 245.12/2.00 TO CROSS POYYO AT 10000, THEN ON TRACK 245.12. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: JET AND TURBOPROP AIRCRAFT ONLY

NOTE: WAILN TRANSITION FOR HOUSTON TERMINAL AREA DEPARTURES ONLY.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT AIROR: HOLD NE, RT, 216.97 INBOUND, 5 NM LEGS.

CHART HOLDING AT HARDD: HOLD SW, RT, 036.67 INBOUND, 5 NM LEGS.

CHART HOLDING AT RBNSN: HOLD NW, RT, 127.60 INBOUND, 5 NM LEGS.

CHART HOLDING AT RODIO: HOLD E, RT, 270.64 INBOUND, 10 NM LEGS.

CHART HOLDING AT SLOW: HOLD SE, RT, 307.61 INBOUND, 5 NM LEGS.

CHART HOLDING AT WEEED: HOLD E, RT, 270.98 INBOUND, 12 NM LEGS.

CHART: FOALL, AREEA

COMMUNICATIONS:

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QERVO (RNAV)	THREE	MARCS.QERVO3	TWO	10/02/2025	

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
SAT	SAN ANTONIO	TX
5C1	SAN ANTONIO	TX
CVB	CASTROVILLE	TX
SKF	SAN ANTONIO	TX
BAZ	NEW BRAUNFELS	TX
PEZ	PLEASANTON	TX
RND	UNIVERSAL CITY	TX
SSF	SAN ANTONIO	TX

LOST COMMUNICATIONS PREFERENCES:

SAT RWY 4: AFTER MCRTY, PROCEED TO FOALL AT 5000, THEN ON ILS OR LOC RWY 4 OR RNAV (GPS) Y RWY 4 APPROACH.
SAT RWY 13R: AFTER CARNE, PROCEED TO RBNSN AT 6000 AND HOLD.
SAT RWY 22: AFTER TRITP, PROCEED TO AREEA AT 5000, THEN ON RNAV (GPS) Y RWY 22 APPROACH.
SAT RWY 31L: AFTER XLANT, PROCEED TO SLOW AT 4000 AND HOLD.

REMARKS:

ABBREVIATED AMENDMENT.
ENROUTE 2800 FT MOCA VALUES DUE TO 1728 MSL TWR LOCATED DOWNSTREAM IN COMMON ROUTE AFTER QERVO.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
MAG VAR: SAT 04E/2020
CHART AT MCRTY TERMINUS: SAT LDG RWY 4
CHART AT XLANT TERMINUS: SAT LDG RWY 31L
CHART AT CARNE TERMINUS: SAT LDG RWY 13R
CHART AT TRITP TERMINUS: SAT LDG RWY 22
CHART AT POYYO TERMINUS: LDG 5C1, BAZ, CVB, PEZ, RND, SKF, SSF

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QERVO (RNAV)	THREE	MARCS.QERVO3	TWO	10/02/2025	

FLIGHT INSPECTED BY:

ORGANIZATION:

DATE:

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

Flight Inspected Signature:

Digitally signed by
CASIMIR L TABAKA

Jul 09, 2025

DEVELOPED BY:

CASIMIR TABAKA (BARBARA GORMAN)

AJV-A432

06/12/2025

Developed By Signature:

Digitally signed by
CASIMIR L TABAKA

Jul 09, 2025

APPROVED BY:

CASIMIR TABAKA

AJV-A430

Approved By Signature:

Digitally signed by
CASIMIR L TABAKA

Jul 09, 2025

CHANGES:

1. CHANGED WP NAME ERROR TO AIROR.

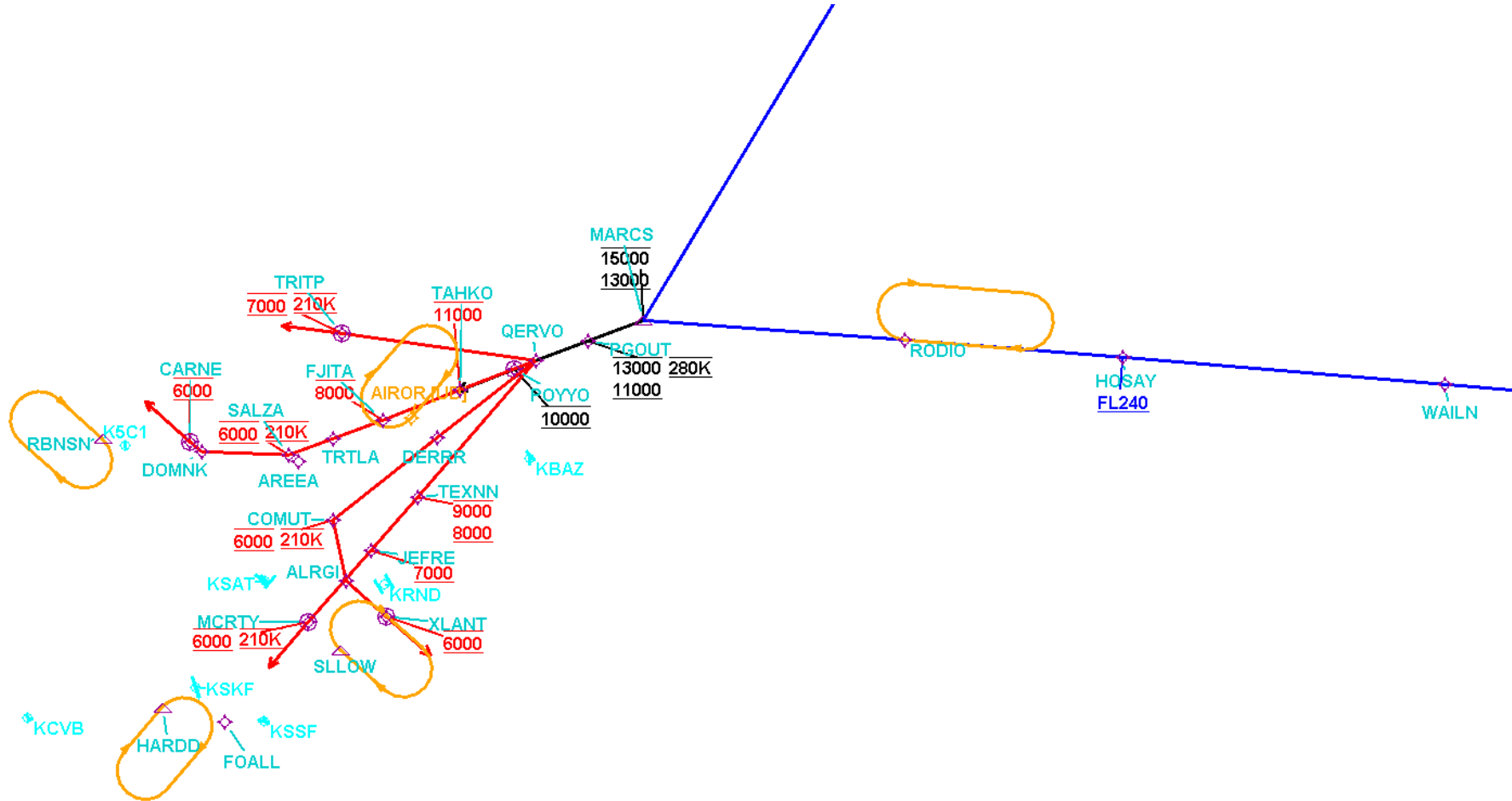
REASONS:

1. ATC REQUEST.

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
QERVO (RNAV)	THREE	MARCS.QERVO3	TWO	10/02/2025	
Graphic Depiction 1					



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Graphic Depiction 2

WINDU

BLEWE

OUTLW

ANNGY

MARCS
15000
13000

TAHHO
11000

QERVO

QYVVO
10000

KBAZ

PGOUT
13000 280K
11000

RODIO

HO SAY
FL240

WAILN

WEEED

CAAGE

MOLLR

**FEDERAL AVIATION ADMINISTRATION
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STAR (DATA RECORD)**

Arrival Name QERVO (RNAV)	Number THREE		STAR Computer Code MARCS.QERVO3		Superseded Number TWO		Dated 10/02/2025		Effective Date
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
En Route Transition									
ANNGY	310944.36N / 0944301.07W	Y		IF					ANNGY.QERVO3
WEEED	294645.14N / 0961054.94W	Y	FB	TF	222.91	112.36			
WAILN	294829.63N / 0963417.12W	Y	FB	TF	274.98	20.41			
HOSAY	295044.02N / 0970520.01W	Y	FB	TF	274.86	27.10	AT/ABOVE FL240		
RODIO	295211.90N / 0972625.75W	Y	FB	TF	274.64	18.40			
MARCS	295352.04N / 0975140.70W	Y	FB	TF	274.44	22.01	13000B15000		
En Route Transition									
BLEWE	311227.65N / 0971232.47W	Y		IF					BLEWE.QERVO3
OUTLW	302242.22N / 0973147.67W	Y	FB	TF	198.55	52.34			
MARCS	295352.04N / 0975140.70W	Y	FB	TF	211.02	33.54	13000B15000		
En Route Transition									
CAAGE	295724.76N / 0952045.25W	Y		IF					CAAGE.QERVO3
WEEED	294645.14N / 0961054.94W	Y	FB	TF	256.51	44.89			
WAILN	294829.63N / 0963417.12W	Y	FB	TF	274.98	20.41			
HOSAY	295044.02N / 0970520.01W	Y	FB	TF	274.86	27.10	AT/ABOVE FL240		
RODIO	295211.90N / 0972625.75W	Y	FB	TF	274.64	18.40			
MARCS	295352.04N / 0975140.70W	Y	FB	TF	274.44	22.01	13000B15000		
En Route Transition									
MOLLR	293920.23N / 0951635.83W	Y		IF					MOLLR.QERVO3
WEEED	294645.14N / 0961054.94W	Y	FB	TF	279.11	47.87			
WAILN	294829.63N / 0963417.12W	Y	FB	TF	274.98	20.41			
HOSAY	295044.02N / 0970520.01W	Y	FB	TF	274.86	27.10	AT/ABOVE FL240		
RODIO	295211.90N / 0972625.75W	Y	FB	TF	274.64	18.40			
MARCS	295352.04N / 0975140.70W	Y	FB	TF	274.44	22.01	13000B15000		

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Arrival Name QERVO (RNAV)		Number THREE		STAR Computer Code MARCS.QERVO3			Superseded Number TWO		Dated 10/02/2025	Effective Date
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
En Route Transition										
WAILN	294829.63N / 0963417.12W	Y		IF					WAILN.QERVO3	
HOSAY	295044.02N / 0970520.01W	Y	FB	TF	274.86	27.10	AT/ABOVE FL240			
RODIO	295211.90N / 0972625.75W	Y	FB	TF	274.64	18.40				
MARCS	295352.04N / 0975140.70W	Y	FB	TF	274.44	22.01	13000B15000			
En Route Transition										
WINDU	313149.93N / 0970457.06W	Y		IF					WINDU.QERVO3	
BLEWE	311227.65N / 0971232.47W	Y	FB	TF	198.62	20.39				
OUTLW	302242.22N / 0973147.67W	Y	FB	TF	198.55	52.34				
MARCS	295352.04N / 0975140.70W	Y	FB	TF	211.02	33.54	13000B15000			
Common Route										
MARCS	295352.04N / 0975140.70W	Y		IF			13000B15000		MARCS.QERVO3	
PGOUT	295207.96N / 0975658.71W	Y	FB	TF	249.44	04.92	11000B13000	AT 280K		
QERVO	295027.75N / 0980158.46W	Y	FB	TF	249.04	04.65				
Common Route										
MARCS	295352.04N / 0975140.70W	Y		IF			13000B15000		MARCS.QERVO3	
PGOUT	295207.96N / 0975658.71W	Y	FB	TF	249.44	04.92	11000B13000	AT 280K		
QERVO	295027.75N / 0980158.46W	Y	FB	TF	249.04	04.65				
POYYO	294944.86N / 0980407.36W	Y	FO	TF	249.12	02.00	AT 10000			
K5C1,KBAZ,KCVB, KPEZ,KRND,KSKF, KSSF				FM	249.12					
Runway Transition										
QERVO	295027.75N / 0980158.46W	Y		IF						
TEXNN	293902.62N / 0981328.53W	Y	FB	TF	221.36	15.17	8000B9000			
JEFRE	293433.54N / 0981758.57W	Y	FB	TF	221.27	05.95	AT/ABOVE 7000			

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<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
MCRTY	292831.05N / 0982401.46W	Y	FO	TF	221.23	08.01	AT 6000	AT 210K	
KSAT:RWY 4				FM	221.23				
Runway Transition									
QERVO	295027.75N / 0980158.46W	Y		IF					
TAHKO	294801.20N / 0980918.40W	Y	FB	TF	249.12	06.83	AT/BELOW 11000		
FJITA	294531.17N / 0981649.01W	Y	FB	TF	249.14	07.00	AT/BELOW 8000		
TRTLA	294354.29N / 0982138.62W	Y	FB	TF	249.05	04.50			
SALZA	294232.60N / 0982551.34W	Y	FB	TF	249.70	03.91	AT 6000	AT 210K	
DOMNK	294248.63N / 0983413.45W	Y	FB	TF	272.13	07.29			
CARNE	294341.83N / 0983522.29W	Y	FO	TF	311.53	01.33	AT 6000		
KSAT:RWY 13R				FM	311.53				
Runway Transition									
QERVO	295027.75N / 0980158.46W	Y		IF					
TRITP	295245.11N / 0982048.14W	Y	FO	TF	278.02	16.53	AT 7000	AT 210K	
KSAT:RWY 22				FM	278.02				
Runway Transition									
QERVO	295027.75N / 0980158.46W	Y		IF					
DERRR	294404.08N / 0981132.49W	Y	FB	TF	232.58	10.49			
COMUT	293708.44N / 0982134.69W	Y	FB	TF	231.72	11.14	AT 6000	AT 210K	
ALRGI	293200.61N / 0982018.87W	Y	FB	TF	167.84	05.24			
XLANT	292900.76N / 0981627.62W	Y	FO	TF	131.62	04.50	AT 6000		
KSAT:RWY 31L				FM	131.62				