

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ZONNA (RNAV)	TWO	ZONNA.ZONNA2	ONE	08/30/2007	11/30/2023

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
EL PASO	ELP.ZONNA2	ELP VORTAC	ELP VORTAC						
			PENSL	268.97	153.30	FL230	17000		
			ZONNA	272.56	23.04	FL210	10600		AT FL210
NEWMAN	EWM.ZONNA2	EWM VORTAC	EWM VORTAC						
			PENSL	265.93	152.87	FL230	17000		
			ZONNA	272.56	23.04	FL210	10600		AT FL210
SAN SIMON	SSO.ZONNA2	SSO VORTAC	SSO VORTAC						AT/BELOW FL280
			ZONNA	252.51	22.78	FL210	10600		AT FL210

ARRIVAL ROUTE DESCRIPTION:

LANDING RWY 12: FROM ZONNA ON TRACK 255.47/31.99 TO CROSS SSAND AT 14000 AND AT 280 KIAS, THEN ON TRACK 264.87/14.75 TO CROSS VOTTO AT OR ABOVE 10000, THEN ON TRACK 264.71/12.14 TO CROSS JEJEK AT OR ABOVE 9000, THEN ON TRACK 306.08/15.84 TO CROSS OTUKE AT 7000 AND AT 210 KIAS, THEN ON TRACK 306.08. EXPECT RNAV (GPS) Z RWY 12 APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 30: FROM ZONNA ON TRACK 245.89/33.32 TO CROSS JOKIM AT 12000 AND AT 250 KIAS, THEN ON TRACK 245.89. EXPECT RNAV (GPS) Z RWY 30 APPROACH OR 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 AIRCRAFT ONLY

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT JOKIM: HOLD NE, LT, 245.89 INBOUND, 10 NM LEGS.

CHART HOLDING AT SSAND: HOLD E, RT, 255.47 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

CHART: TUS APP CON, TUS GND CON, TUS TWR

AIRPORTS SERVED:

AIRPORT ID
KTUS

CITY
TUCSON

STATE
AZ

LOST COMMUNICATIONS PREFERENCES:

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REMARKS:

ALL ENROUTE MEAS REQUIRED FOR SATISFACTORY DME/DME/IRU COVERAGE.
DO NOT CHART MOCA VALUES.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
MAG VAR: KTUS 9E/2025
CHART AT JOKIM TERMINUS: KTUS LDG RWY 30
CHART AT OTUKE TERMINUS: KTUS LDG RWY 12

FLIGHT INSPECTED BY:

PENDING

ORGANIZATION: **DATE:**

Flight Inspected Signature:

Digitally signed by
CASIMIR L TABAKA
Aug 29, 2023

DEVELOPED BY:

CASIMIR TABAKA (JON NEIDIGH)

AJV-A432

06/22/2023

Developed By Signature:

Digitally signed by
CASIMIR L TABAKA
Jul 20, 2023

APPROVED BY:

JOHNNIE BAKER

AJV-A430

Approved By Signature:

Digitally signed by
CASIMIR L TABAKA
Jul 20, 2023

CHANGES:

1. CHANGED RUNWAY DESIGNATOR FROM 11L/29R TO 12/30
2. MOVED ZONNA 7.28 NM NE
3. CHANGED ARRIVAL ROUTE DESCRIPTION TO INCLUDE SEPERATE TRANSITIONS FOR RWYS 12/30
4. ADDED NEW FIX IN RWY 12 TRANSITION: VOTTO
5. ADDED NEW CROSSING RESTRICTION AT JECEK: AT OR ABOVE 9000
6. ADDED NEW SPEED RESTRICTION AT OTUKE: AT 210 KNOTS
7. CHANGED TURBOJET AIRCRAFT ONLY TO JET AIRCRAFT ONLY
8. REMOVED CRITICAL DME PROCEDURAL NOTE
9. REMOVED LANDING RWY 29 NOTE
10. ADDED HOLDING AT JOKIM
11. REMOVED HOLDING AT TUS VORTAC
12. REMOVED ATIS FROM COMMUNICATIONS CHART NOTE
14. REMOVED LOST COMMUNICATIONS PREFERENCES
14. UPDATED KTUS MAGVAR FROM 12E TO 9E
15. CHARTED TERMINUS DATA

REASONS:

1. MAGVAR UPDATE AND RUNWAY CONSTRUCTION
2. OPERATIONAL REQUIREMENT

QUALITY
14
CHECKED

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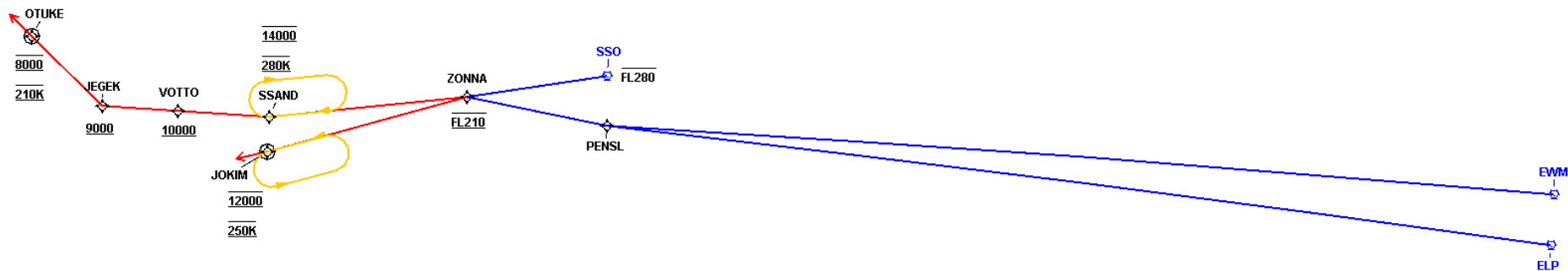
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ZONNA (RNAV)	TWO	ZONNA.ZONNA2	ONE	08/30/2007	11/30/2023
3-6. ATC REQUEST					
7. 8260.19H 1-1-5.a(12) CHANGED ALL TURBOJET REFERENCES TO JET					
8. DME/DME ASSESMENT RESULTS					
9. REPLACED BY RWY 30 ARRIVAL ROUTE DESCRIPTION					
10-11. ATC REQUEST					
12. NOT REQUIRED IAW 8260-19I 4-5-12.f					
13. NO LONGER NECESSARY - ARRIVAL ROUTE DESCRIPTIONS CONTAIN APPROACH TO EXPECT					
14. MAGVAR UPDATE					
15. 8260.19I 4-5-2.h(2)					



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Graphic Depiction 1

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)**

Arrival Name ZONNA (RNAV)	Number TWO		STAR Computer Code ZONNA.ZONNA2		Superseded Number ONE		Dated 08/30/2007	Effective Date 11/30/2023	
<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									
ELP VORTAC	314857.28N / 1061654.78W	Y		IF					ELP.ZONNA2
PENSL	320809.40N / 1091544.03W	Y	FB	TF	277.97	153.30			
ZONNA	321244.22N / 1094220.57W	Y	FB	TF	281.56	23.04	AT FL210		
En Route Transition									
EWM VORTAC	315706.43N / 1061620.85W	Y		IF					EWM.ZONNA2
PENSL	320809.40N / 1091544.03W	Y	FB	TF	274.93	152.87			
ZONNA	321244.22N / 1094220.57W	Y	FB	TF	281.56	23.04	AT FL210		
En Route Transition									
SSO VORTAC	321609.28N / 1091547.12W	Y		IF			AT/BELOW FL280		SSO.ZONNA2
ZONNA	321244.22N / 1094220.57W	Y	FB	TF	261.51	22.78	AT FL210		
Runway Transition									
ZONNA	321244.22N / 1094220.57W	Y		IF			AT FL210		
SSAND	320933.39N / 1101951.22W	Y	FB	TF	264.47	31.99	AT 14000	AT 280K	
VOTTO	321032.01N / 1103711.56W	Y	FB	TF	273.87	14.75	AT/ABOVE 10000		
JECEK	321118.48N / 1105128.25W	Y	FB	TF	273.71	12.14	AT/ABOVE 9000		
OTUKE	322232.29N / 1110440.92W	Y	FO	TF	315.08	15.84	AT 7000	AT 210K	
KTUS:RWY 12				FM	315.08				
Runway Transition									
ZONNA	321244.22N / 1094220.57W	Y		IF			AT FL210		
JOKIM	320356.36N / 1102012.22W	Y	FO	TF	254.89	33.32	AT 12000	AT 250K	
KTUS:RWY 30				FM	254.89				

