

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR OR TACAN STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> KTUS	<u>PROCEDURE NAME</u> VOR OR TACAN RWY 11L	<u>ORIGINAL/AMENDMENT</u> 1D	<u>CITY</u> TUCSON	<u>STATE</u> AZ		
<u>AIRPORT ELEVATION</u> 2643	<u>TDZE</u> 2599	<u>SUPERSEDED</u> VOR OR TACAN RWY 11L	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 07/15/2021	<u>MAG VAR</u> 12E	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> TUS	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 29 DECEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> 12/29/2022	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
SSAND/TUS 30.00 DME		TUS VORTAC					250.81	30.00	10700
TUS VORTAC		LIPTE INT/TUS 17.75 DME					303.05	17.75	7500
TACUB/TUS 29.10 DME	IAF	LIPTE INT/TUS 17.75 DME	NOPT				123.05	11.35 (TUS R-303)	6000
LIPTE INT/TUS 17.75 DME	IF/IAF	WASON INT/TUS 12.78 DME					123.05	4.96 (TUS R-303)	5500
WASON INT/TUS 12.78 DME		CALLS INT/TUS 10.46 DME					123.05	2.33 (TUS R-303)	5000
CALLS INT/TUS 10.46 DME		POCIB INT/TUS 8.46 DME					123.05	2.00 (TUS R-303)	4600

MISSED APPROACH

MAP:

6.07 NM AFTER POCIB INT/TUS 8.46 DME OR AT TUS 2.38 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 THEN CLIMBING RIGHT TURN TO 6000 (CAT. E 8000) ON HEADING 300 AND TUS VORTAC R-270 TO RYN NDB/TUS 12.8 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. HOLD NW LIPTE, RT, 123.05 INBOUND, 6000 FT. IN LIEU OF PT (IAF), MAX 10000.
3. **FAC:** 123.05 **FAF:** POCIB INT/TUS 8.46 DME **DIST FAF TO MAP:** 6.07 **DIST FAF TO THLD:** 6.07
4. **MIN ALT:** LIPTE INT/TUS 17.75 DME 6000, WASON INT/TUS 12.78 DME 5500, CALLS INT/TUS 10.46 DME 5000, POCIB INT/TUS 8.46 DME 4600, PARCS INT/TUS 5.06 DME 3480
8. **MSA FROM:** TUS VORTAC 240-330 6600, 330-240 10700

QUALITY
26
CHECKED

EQUIPMENT REQUIREMENTS NOTES:

RADAR AND DME REQUIRED FOR PROCEDURE ENTRY AT TACUB.
ADF OR DME REQUIRED.
DME REQUIRED FOR ARRIVALS AT SSAND.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SSAND ON J104 EASTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON TUS VORTAC AIRWAY RADIALS 288 CW 308.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE CAT E VISIBILITY TO 1 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: DINGO/TUS 40.00 DME/RADAR.
HOLD W, RT, 090.00 INBOUND.
CHART FAS OBST: 2691 TANK 320758N/1105703W.
CHART VDP AT 3.55 DME.
DISTANCE VDP TO THLD 1.17 NM.
POCIB TO RW11L: 3.05/55.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 1100-3, CAT E 1300-3

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-11L	3020	2400	421	3020	2400	421	3020	4000	421	3020	4000	421	3020	4000	421
CIRCLING	3160	1	517	3180	1	537	3200	1 1/2	557	3660	3	1017	3920	3	1277

CHANGES - REASONS

1. DELETED FEEDER SEGMENT DINGO TO TACUB. - AVQ NDB DECOMMISSIONED AND NO COURSE GUIDANCE.
2. CHANGED FIX TACUB DESCRIPTION FROM "TACUB INT/TUS 29.10 DME" TO "TACUB/TUS 29.10 DME". - FIX TYPE CHANGED, NO LONGER AN INTERSECTION DUE TO AVQ NDB DECOMMISSIONING.
3. ADDED ADDITIONAL FLIGHT DATA CHART IN PLANVIEW NOTE "DINGO/TUS 40.00 DME/RADAR". - ATC REQUEST FOR THEIR LOA BETWEEN ZAB AND U90 (ARTCC AND TERMINAL APPROACH).
4. DELETED CHART NOTE "RADAR OR ADF REQUIRED FOR ARRIVALS AT DINGO". - FEEDER SEGMENT DINGO TO TACUB DELETED DUE TO AVQ NDB DECOMMISSIONING.
5. ADDED EQUIPMENT REQUIREMENTS NOTE "RADAR AND DME REQUIRED FOR PROCEDURE ENTRY AT TACUB". - IAW FAAO 8260.19I PARAGRAPH 8-6-8.A.(1)(D).
6. ADDED EQUIPMENT REQUIREMENTS NOTE DME REQUIRED FOR ARRIVALS AT SSAND. - IAW FAAO 8260.19I PARAGRAPH 8-6-8 A.(1).
7. DELETED ADDITIONAL FLIGHT DATA CHART PLANVIEW NOTE "ADF OR DME REQUIRED". - IAW FAAO 8260.19I PARAGRAPH 8-6-8 A.(5).
8. ADDED CHART PLANVIEW NOTE PROCEDURE NA FOR ARRIVAL ON TUS VORTAC AIRWAY RADIALS 288 CW 308. - IAW FAAO 8260.19I PARAGRAPH 8-2-5.E.(2).
9. ADDED CHART PLANVIEW NOTE PROCEDURE NA FOR ARRIVALS AT SSAND ON J104 EASTBOUND. - IAW FAAO 8260.19I PARAGRAPH 8-2-5.E.(2).
10. ADDED NOPT TO INITIAL SEGMENT TACUB TO LIPT. - IAW FAAO 8260.19I PARAGRAPH 8-6-4.A.(3).
11. CHANGED MISSED APPROACH POINT FORMAT FROM "6.07 MILES AFTER POCIB OR AT RW11/TUS 2.38 DME" TO "6.07 NM AFTER POCIB INT/TUS 8.46 DME OR AT TUS 2.38 DME". - IAW FAAO 8260.19I PARAGRAPH 8-6-6.C.(2).
12. CHANGED LINE 4 FIX DESCRIPTIONS FROM LIPT. TO LIPT. INT/TUS 17.75 DME, FROM WASON TO WASON INT/TUS 12.78 DME, FROM CALLS TO CALLS INT/TUS 10.46 DME AND FROM POCIB TO POCIB INT/TUS 8.46 DME. - IAW FAAO 8260.19I PARAGRAPH 8-2-6.
13. CHANGED ALTERNATE MINIMUMS FROM "STANDARD EXCEPT CAT D 1100-3, CAT E 1300-3" TO STANDARD - CAT D 1100-3, CAT E 1300-3". - IAW FAAO 8260.19I PARAGRAPH 8-6-11.B.(4).
14. ADDED MAX 10000 TO PROFILE LINE 2. - IAW FAAO 8260.19I PARAGRAPH 8-6-7.B.(2).
15. ADF OR DME REQUIRED MOVED FROM CHART NOTES TO EQUIPMENT REQUIREMENTS NOTES. - IAW FAAO 8260.19I PARAGRAPH 8-6-8.
16. CHANGED COURSE ON FEEDER SEGMENT SSAND TO TUS VORTAC FROM 251.31 TO 250.81. - UPDATED COURSE EVALUATION.



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<u>COORDINATED WITH:</u> A4A <input checked="" type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input checked="" type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u> ZAB, U90 (TUS TRACON), TUS ATCT, AZ AERO, AMGR, NGB/A306 (ANG)				
<u>FLIGHT CHECKED BY</u> PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION		<u>OFFICE</u>	<u>DATE</u>	Digitally signed by ERIC N SUSKI Oct 31, 2022
<u>DEVELOPED BY</u> ERIC N SUSKI (MICHAEL MCCARTNEY)		<u>OFFICE</u> AJV-A431	<u>DATE</u> 10/06/2022	Digitally signed by ERIC N SUSKI Oct 31, 2022
<u>APPROVED BY</u> JOHNNIE BAKER		<u>OFFICE</u> AJV-A430	<u>DATE</u>	<u>TITLE</u> MANAGER Digitally signed by ERIC N SUSKI Oct 31, 2022

