

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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> ILS OR LOC RWY 11L	<u>ORIGINAL/AMENDMENT</u> 14E	<u>CITY</u> TUCSON	<u>STATE</u> AZ		
<u>AIRPORT ELEVATION</u> 2643	<u>TDZE</u> 2599	<u>SUPERSEDED</u> ILS OR LOC RWY 11L	<u>ORIGINAL/AMENDMENT</u> 14D	<u>DATED</u> 07/15/2021	<u>MAG VAR</u> 12E	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> I-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/I-TUS 17.50 DME					303.05	17.75	7500
TACUB/TUS 29.10 DME	IAF	LIPTE INT/I-TUS 17.50 DME	NOPT				123.05	11.35 (TUS R-303)	6000
LIPTE INT/I-TUS 17.50 DME	IF/IAF	WASON INT/I-TUS 12.54 DME					123.03	4.96 (I-TUS)	5500
WASON INT/I-TUS 12.54 DME		CALLS INT/I-TUS 10.22 DME					123.03	2.33 (I-TUS)	5000
CALLS INT/I-TUS 10.22 DME		POCIB INT/I-TUS 8.22 DME					123.03	2.00 (I-TUS)	4600

MISSED APPROACH

MAP:

ILS: DA

LOC: 5.67 NM AFTER POCIB INT/I-TUS 8.22 DME OR AT HUGIK/I-TUS 2.54 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 THEN CLIMBING RIGHT TURN TO 6000 ON HEADING 300 AND TUS VORTAC R-270 TO RYN NDB/TUS 12.84 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD NW LIPTTE, RT, 123.03 INBOUND, 6000 FT. IN LIEU OF PT (IAF), MAX 10000.

3. FAF: 123.03 FAF: POCIB INT/I-TUS 8.22 DME DIST FAF TO MAP: 5.67 DIST FAF TO THLD: 6.07

4. MIN ALT: LIPTTE INT/I-TUS 17.50 DME 6000, WASON INT/I-TUS 12.54 DME 5500, CALLS INT/I-TUS 10.22 DME 5000, POCIB INT/I-TUS 8.22 DME 4600, PARCS INT/I-TUS 4.82 DME 3480

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 939

6. MIN GS INCPT: 4600 GS ALT AT PFAF : POCIB INT/I-TUS 8.22 DME 4600 OM: MM: IM:

7. GS ANGLE: 3.00 34:1: 20:1: TCH: 55.4

8. MSA FROM: TUS VORTAC 240-330 6600, 330-240 10700

EQUIPMENT REQUIREMENTS NOTES:

ADF OR DME REQUIRED.
RADAR AND DME REQUIRED FOR PROCEDURE ENTRY AT TACUB.
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: USE I-TUS DME WHEN ON THE LOCALIZER COURSE.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS CAT E VISIBILITY TO RVR 4000, S-LOC 11L CAT E VISIBILITY TO 2 1/2 SM; PARCS FIX MINIMUMS: S-LOC 11L CAT C/D/E VISIBILITY TO RVR 5500.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: DINGO/TUS 40.00 DME/RADAR.
HOLD W, RT, 089.80 INBOUND.
CHART FAS OBST: 2609 POLE 320803N/1105742W.
CHART 4060 AAO 321123N/1110318W.



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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: CAT A, B 900-2, CAT C 900-2 1/2, 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-ILS 11L	2800	2400	201	2800	2400	201	2800	2400	201	2800	2400	201	2800	2400	201
S-LOC 11L	3480	4000	881	3480	4000	881	3480	2	881	3480	2	881	3480	2	881
CIRCLING	3480	1 1/4	837	3480	1 1/4	837	3480	2 1/2	837	3660	3	1017	3920	3	1277
PARCS FIX MINIMUMS															
S-LOC 11L	2960	2400	361	2960	2400	361	2960	4000	361	2960	4000	361	2960	4000	361
CIRCLING	3160	1	517	3220	1	577	3220	1 1/2	577	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 MAKEUP 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 CHART IN PLANVIEW: DINGO/TUS 40.00 DME/RADAR. - ATC REQUEST FOR THEIR LOA BETWEEN ZAB AND U90 (ARTCC AND TERMINAL APPROACH).
4. DELETED EQUIPMENT REQUIREMENTS NOTE "ADF OR RADAR 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. CHANGED LINE 4 FIX PARCS MAKEUP FROM "PARCS INT/4.82 DME" TO "PARCS INT/I-TUS 4.82 DME". - IAW FAAO 8260.19I PARAGRAPH 8-2-6.C.(3).
7. DELETED LINE 4 "" FROM FIX PARCS MINIMUM ALTITUDE AND DELETED ASSOCIATED CHART PROFILE NOTE ""LOC ONLY". - NO LONGER REQUIRED.
8. ADDED CHART PLANVIEW NOTE "PROCEDURE NA FOR ARRIVALS AT SSAND ON J104 EASTBOUND". - IAW FAAO 8260.19I 8-2-5.E.(2).
9. CHANGED MISSED APPROACH FIX DESCRIPTION FROM "HUGIK/I-TUS 2.54 DME FIX" TO "HUGIK/I-TUS 2.54 DME". - FORMAT IAW FAAO 8260.19I PARAGRAPH 8-2-6.
10. CHANGED ALTERNATE MINIMUMS FROM "S-ILS 11L STANDARD, S-LOC 11L STANDARD EXCEPT CAT A/B 900-2, CAT C 900-2 1/2, CAT D 1100-3, CAT E 1300-3" TO "ILS: STANDARD; LOC: CAT A, B 900-2, CAT C 900-2 1/2, CAT D 1100-3, CAT E 1300-3". - LOC ALTERNATE MINIMUMS ARE NOT STANDARD FOR ANY CATEGORY.
11. DELETED ALTERNATE MINIMUMS NOTE FOR ILS AND LOC "NA WHEN LOCAL WEATHER NOT AVAILABLE". - NOT REQUIRED FOR AIRPORTS WITHOUT A BACKUP ALTIMETER IAW AJV MEMO 276, IMPLEMENTATION OF FAA ORDER 8260.19I - FLIGHT PROCEDURES AND AIRSPACE, DATED JUNE 29, 2020.
12. CHANGED COURSE ON FEEDER SEGMENT SSAND TO TUS VORTAC FROM 251.31 TO 250.81. - UPDATED COURSE EVALUATION.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAB, U90 (TUS TRACON), TUS ATCT, AZ AERO, AMGR, NGB/A306 (ANG)

FLIGHT CHECKED BY

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

OFFICE

DATE

Digitally signed by

ERIC N SUSKI

Oct 31, 2022

DEVELOPED BY

ERIC N SUSKI (MICHAEL MCCARTNEY)

OFFICE

AJV-A431

DATE

10/04/2022

Digitally signed by

ERIC N SUSKI

Oct 31, 2022

APPROVED BY

JOHNNIE BAKER

OFFICE

AJV-A431

DATE

TITLE

MANAGER

Digitally signed by

ERIC N SUSKI

Oct 31, 2022

