FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

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.

AIRPORT ID
KTUSPROCEDURE NAME
RNAV (GPS) RWY 22ORIGINAL/AMENDMENT
ORIG-ECITY
TUCSONSTATE
TUCSON

AIRPORT ELEVATION TDZE SUPERSEDED ORIGINAL/AMENDMENT DATED MAG VAR EPOCH YEAR

2643 2572 RNAV (GPS) RWY 21 ORIG-D 07/15/2021 9E 2025

FACILITY COORDINATES OF FACILITIES ACTUAL EFFECTIVE DATE REQUIRED EFFECTIVE DATE CANCEL/SUSPEND

RNAV 30 NOVEMBER 2023 ROUTINE

TERMINAL ROUTES

FROM	FIX TYPE	<u>TO</u>	FIX TYPE	LEG TYPE	FO/FB	RNP	<u>COURSE</u>	DISTANCE	ALTITUDE
ALMON/TFD 36.67 DME		SASME		TF	FB	1.00	078.52	25.87	7600
MAVVA/TUS 27.00 DME		SASME		TF	FB	1.00	074.18	18.07	7600
SASME	IAF	ARERE		TF	FB	1.00	126.03	7.20	7600
ARERE		GALKE		TF	FB	1.00	126.09	2.90	6300
GALKE		OPRAE		TF	FB	1.00	126.11	2.90	5000
RYN NDB		OBISE		TF	FB	1.00	100.48	23.64	8500
OBISE		RANAE		TF	FB	1.00	019.82	7.57	8500
RANAE	IAF	AVOME		TF	FB	1.00	306.21	5.00	7500
AVOME		OPRAE		TF	FB	1.00	306.13	6.00	5000
OPRAE	IF	HEVIN		TF	FB	1.00	216.13	5.02	4200
HEVIN	FAF	RW22	MAP	TF	FO	0.30	216.10	4.88	
RW22	MAP	WADSO		TF	FO	1.00	216.06	1.00	
WADSO		LIKLE		TF	FO	1.00	206.00	7.00	
LIKLE		RYN NDB		DF	FO	1.00			6000

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MISSED APPROACH

MAP:

LNAV/VNAV: DA LNAV: RW22

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 ON TRACK 216.06 TO WADSO AND ON 206.00 TRACK TO LIKLE AND RIGHT TURN DIRECT RYN NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000-

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

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

2. PROFILE STARTS AT OPRAE

3. FAC: 216.10 **FAF:** HEVIN **DIST FAF TO MAP:** 4.88 **DIST FAF TO THLD:** 4.88

4. MIN ALT: OPRAE 5000, HEVIN 4200

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 573 HAT: 1.65 GS ANT:

6. MIN GP INCPT: 4200 **GP ALT AT PFAF**: HEVIN 4200 **OM**: **MM**: **IM**:

7. GP ANGLE: 3.00 **34:1**: IS NOT CLEAR **20:1**: IS CLEAR **TCH**: 50.0

8. MSA FROM: RW22 10700

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 22 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -2°C OR ABOVE 54°C.

CHART: PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ALMON ON V66-105 NORTHWEST BOUND AND ARRIVALS AT OBISE ON V66-T310 NORTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

HOLD W. RT. 093.00 INBOUND.

CHART FAS OBST: 2858 STACK (04-038250) 320935N/1105418W.

CHART VDP AT 1.69 NM TO RW22.

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MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT D 1100-3

CATEGORY:	A		В		С			D			Е				
FINAL TYPE	DA/MDA	<u>VIS</u>	HAT/HAA	<u>DA/MDA</u>	<u>VIS</u>	HAT/HAA	<u>DA/MDA</u>	<u>VIS</u>	HAT/HAA	DA/MDA	<u>VIS</u>	HAT/HAA	DA/MDA	<u>VIS</u>	HAT/HAA
LNAV/VNAV DA	3145	2	573	3145	2	573	3145	2	573	3145	2	573			
LNAV MDA	3160	1	588	3160	1	588	3160	1 3/4	588	3160	1 3/4	588			
CIRCLING	3160	1	517	3220	1	577	3220	1 3/4	577	3660	3	1017			

CHANGES - REASONS

- 1. CHANGED PROCEDURE NAME FROM RNAV (GPS) RWY 21 TO RWY 22 RWY RENUMBERED DUE TO MAGVAR CHANGE.
- 2. ALL COURSES UPDATED 3 DEGREES MAG VAR UPDATE FROM 12E TO 9 E 2025.
- 3. UPDATED NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C. TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -2°C OR ABOVE 54°C.- NEW 5 YEAR TEMP.
- 4. UPDATED MISSED INSTRUCTIONS FROM CLIMB TO 6000 ON COURSE 213.06 TO WADSO AND TRACK 203.00 TO LIKLE AND RIGHT TURN DIRECT RYN NDB AND HOLD, TO "CLIMB TO 6000 ON TRACK 216.06 TO WADSO AND TRACK 206.00 TO LIKLE AND RIGHT TURN DIRECT RYN NDB AND HOLD REQUIRED FOR CODING, NO CHANGE IN GROUND TRACK, TRACKS UPDATED FOR MAG VAR.
- 5. REMOVED * FROM VDP AND "*LNAV ONLY" IN ADDITIONAL FLIGHT DATA
- 6. UPDATED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH-GPS UPDATED NAVSPEC REQUIREMENTS.
- 7. CORRECTED PROCEDURE NA NOTE FROMARRIVAL AT OBISE ON V66-T310 SOUTHEAST BOUND TOARRIVAL AT OBISE ON V66-T310 NORTHWEST BOUND MAGVAR UP DATE ON THE COURSE FROM OBISE.
- 8. UPDATED HELICOPTER VISIBILITY NOTE AND VDP TO REFLECT RWY 22 RWY NUMBERING UPDATED.
- 9. RAISED LNAV AND CIRCLING CAT C VISIBILITY FROM 1 1/2 TO 1 3/4 UPDATED TO NEW VISIBILITY TABLE.

COORDINATED WITH:

ALPA X AOPA X APA X HAI \square NBAA X OTHER: ZAB, TUS ATCT, AZ AERO, AMGR, NGB/A306 (ANG) A4A X Digitally signed by OFFICE CASIMIR L TABAKA **FLIGHT CHECKED BY** <u>DATE</u> PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE Sep 22, 2023 FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION Digitally signed by **DEVELOPED BY OFFICE** DATE CASIMIR L TABAKA JOSEPH L. ZEDER AJV-A432 08/03/2023 Sep 20, 2023 APPROVED BY **OFFICE** DATE Digitally signed by CASIMIR TABAKA AJV-A432

> CASIMIR L TABAKA Sep 20, 2023

> > OUALITY 35 CHECKED

TITLE

MANAGER