

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.

<u>AIRPORT ID</u> KTCL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 4	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> TUSCALOOSA	<u>STATE</u> AL		
<u>AIRPORT ELEVATION</u> 170	<u>TDZE</u> 160	<u>SUPERSEDED</u> RNAV (GPS) RWY 4	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 07/14/2022	<u>MAG VAR</u> 0E	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 APRIL 2023	<u>REQUIRED EFFECTIVE DATE</u> 04/20/2023	<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>
MOVIL		TIEDD		TF	FB	1.00	258.36	6.04	2400
TIEDD	IAF	BBAMA	NOPT	TF	FB	1.00	310.99	6.20	2400
ROWLL	IAF	BBAMA	NOPT	TF	FB	1.00	130.89	6.20	2400
ALICE	IAF	BBAMA	NOPT	TF	FB	1.00	059.36	10.19	2400
BBAMA	IF/IAF	TUSKE		TF	FB	1.00	040.94	5.40	2000
TUSKE	FAF	RW04	MAP	TF	FO	0.30	040.97	5.63	
RW04	MAP	360 MSL		CA			040.97		
360 MSL		NENMY		DF	FB	1.00			
NENMY		OKW VORTAC		TF	FO	1.00	124.98	12.98	2500

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW04

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT NENMY AND ON TRACK 124.98 TO OKW VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
31
CHECKED

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	360	1/2	200	360	1/2	200	360	1/2	200	360	1/2	200			
LNAV/VNAV DA	575	3/4	415	575	3/4	415	575	3/4	415	575	3/4	415			
LNAV MDA	600	1/2	440	600	1/2	440	600	3/4	440	600	3/4	440			
CIRCLING	720	1	550	800	1	630	960	2 1/4	790	960	2 1/2	790			



CHANGES - REASONS

1. CHANGED FINAL LENGTH FROM 4.96 TO 5.63 - PFAF/FAF RELOCATED TO MATCH ILS OR LOC RWY 4.
2. FINAL COURSE CHANGED FROM: 040.98 TO: 040.97 - PFAF/FAF MOVED.
3. RAISED PFAF/FAF MIN ALTITUDE FROM 1800 TO 2000 - TO MATCH ILS OR LOC RWY 4.
4. PFAF/FAF FIX NAME CHANGED FROM: BUPGY TO: TUSKE - TO MATCH ILS OR LOC RWY 4.
5. CHANGED IF FIX NAME FROM: CAPOG TO: BBAMA - FPT/ATC REQUEST.
6. CANCELLED IAF FIX AWIMY AND REPLACED WITH FIX NAME TIEDD - FIX MOVED 1.2 NM SE/CURRENT CRITERIA/FPT/ATC REQUEST.
7. INTERMEDIATE LENGTH CHANGED FROM 6.07 TO 5.40 - PFAF/FAF MOVED 0.67 NM SW.
8. CHANGED TIEDD TO BBAMA COURSE/DISTANCE FROM: 310.98/5 TO: 310.99/6.2 - FIX MOVED TO MEET CURRENT CRITERIA.
9. CHANGED PROFILE LINE 2 FROM: "PROFILE STARTS AT CAPOG" TO: "HOLD SW BBAMA, RT, 040.94 INBOUND, 2400 FT. IN LIEU OF PT (IAF), MAX 6000" - ADDED HOLD-IN-LIEU.
10. ADDED 20:1 IS CLEAR AND CHANGED 34:1 IS NOT CLEAR TO 34:1 IS CLEAR TO PROFILE LINE 7 - NEW OBSTACLE EVALUATION/NO 20:1/34:1 PENETRATIONS.
11. ADDED NEW IAF SEGMENT FROM ROWLL TO BBAMA - FPT/ATC REQUEST.
12. CHANGED MISSED APPROACH INSTRUCTIONS FROM: "CLIMB TO 2500 DIRECT NENMY THEN VIA 124.98 TRACK TO BROOKWOOD VORTAC AND HOLD" TO: "CLIMB TO 2500 DIRECT NENMY AND ON TRACK 124.98 TO OKW VORTAC AND HOLD" - CURRENT CRITERIA FORMAT.
13. DELETED IN ADDITIONAL FLIGHT DATA: DISTANCE TO THLD FROM 250 HAT: 0.66NM - NO LONGER REQUIRED.
14. ADDED IN PROFILE LINE 5: 200 HAT: 0.48 - REQUIRED BY 8260.19I DOCUMENTATION.
15. PROCEDURE DESIGN/DOCUMENTED TCH CHANGED FROM: 45 TO: 53 - TO MATCH THE ILS OR LOC RWY 4.
16. CRC REMAINDER CHANGED FROM: 51386887 TO: F8A022B4 AND FPAP LAT/LONG CHANGED FROM: 331343.8900N/0873559.3300W TO: 331343.9005N/0873559.3440W - PROCEDURE TCH CHANGED FROM 45 TO 53.
17. CHANGED LTP/FTP LAT/LONG FROM: 331236.5345N/0973709.0335W TO: 331236.5400N/0873709.0390W - NEW SURVEY DATA.
18. ADDED CA LEG: 360 MSL - CURRENT CRITERIA DOCUMENTATION.
19. CHANGED MOVIL FEEDER COURSE/DISTANCE FROM: 266.39/6.83 TO: 258.36/6.04 - IAF TIEDD MOVED.
20. DELETED CHART NOTE: DME/DME RNP.0.3 NA - NO LONGER REQUIRED.
21. ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS - REQUIRED BY CRITERIA DOCUMENTATION.
22. CHANGED CHART NOTE FROM: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 48C (119F) TO: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -7°C OR ABOVE 54°C - (F) VALUE DOCUMENTATION NO LONGER REQUIRED/THREE YEAR WEATHER HISTORY AVAILABLE.
23. CHANGED IN ADDITIONAL FLIGHT DATA, FAS OBSTACLE DATA FROM: CHART FAS OBST: 357 TOWER 331206N/0873640W TO: FAS OBST: 350 AAO 330854N/0874100W AND ADDED 7:1: 600 AAO 330851N/0874151W - NEW OBSTACLE EVALUATION.
24. CHANGED IN ADDITIONAL FLIGHT DATA, VDP DATA FROM: "CHART VDP AT 1.33 MILES TO RW04* *LNAV ONLY" TO: "CHART VDP AT 1.23 NM TO RW04" - CURRENT CRITERIA FORMAT/DISTANCE CHANGED DUE TO CHANGE IN FINAL LENGTH.
25. ADDED "NOPT" TO INITIALS: ALICE AND TIEDD - REQUIRED BY CURRENT CRITERIA.
26. CHANGED ALTERNATE MINIMUMS FROM: "@NA WHEN LOCAL WEATHER NOT AVAILABLE" TO: "STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2- NA WHEN LOCAL WEATHER NOT AVAILABLE" - CURRENT CRITERIA FORMAT.
27. LOWERED LPV DA/HAT FROM 409/250 TO 360/200 - NEW OBSTACLE EVALUATION.
28. LOWERED LPV ALL CATS VISIBILITY FROM 3/4 TO 1/2 - BASED ON LOWER MINIMUMS.
29. LOWERED LNAV MDA/HAT FROM 680/521 TO 600/440 - NEW OBSTACLE EVALUATION.
30. LOWERED LNAV/VNAV DA/HAT FROM 608/449 TO 575/415 - NEW OBSTACLE EVALUATION.
31. LOWERED LNAV/VNAV ALL CATS VISIBILITY FROM 1 TO 3/4 - BASED ON LOWER MINIMUMS.
32. LOWERED LNAV CAT A/B VISIBILITY FROM 3/4 TO 1/2 AND CAT C/D VISIBILITY FROM 1 TO 3/4 - BASED ON LOWER MINIMUMS.
33. VERTICAL ALERT LIMIT (VAL) CHANGED FROM 50 TO 35 - LPV HAT CHANGED FROM 250 TO 200.
34. CHANGED BACKUP ALTIMETER CHART NOTE FROM: "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BIRMINGHAM ALTIMETER SETTING: INCREASE LPV DA TO 587 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE LNAV/VNAV DA TO 786 FEET AND VISIBILITY CATS C AND D 1/2 SM; INCREASE ALL MDAS 180 FEET AND VISIBILITY LNAV CATS C AND D 1/2 SM AND CIRCLING CAT C 3/4 SM AND CAT D 1/2 SM" TO: "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BIRMINGHAM ALTIMETER SETTING AND INCREASE LPV DA TO 538 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 753 FEET AND ALL VISIBILITIES 1/2 SM. INCREASE ALL MDAS 180 FEET AND LNAV VISIBILITY CAT C/D 5/8 SM, AND CIRCLING VISIBILITY CAT C 3/4 SM AND CAT D 1/2 SM" - CHANGES IN DA/MDA/VISIBILITIES.
35. MOVED BACKUP ALTIMETER NOTE/ASSOCIATED NOTES FROM -3 TO -9 REMARKS AS CONTINGENCY NOTE - WMSCR SUPPORTED/FPT REQUEST.
36. DELETED CHART NOTE: RWY 04 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - NO 34:1 PENETRATIONS/NEW OBSTACLE EVALUATION.
37. ADDED TO ADDITIONAL FLIGHT DATA: CHART BIRMINGHAM 2 MOA, CHART BIRMINGHAM MOA, CHART MERIDIAN 1 EAST MOA - ALREADY CHARTED ON ILS OR LOC RWY 4.
38. CHANGED ALICE PROCEDURE NA FOR ARRIVALS PLANVIEW NOTE FROM: "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ALICE ON V18-417 SOUTHWEST BOUND" TO: "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ALICE ON T294 SOUTHWEST BOUND" - ADDITION OF T ROUTE.

12/07/2022: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON: 10/26/2022:

1. CHANGED REQUIRED EFFECTIVE DATE FROM: ROUTINE TO: 04/20/23.
2. ADDED "PENDING" TO FLIGHT CHECKED BY ON (8260-3) SIGNATURE PAGE.



AIRPORT ID
KTCL

PROCEDURE NAME
RNAV (GPS) RWY 4

ORIGINAL/AMENDMENT
1

CITY
TUSCALOOSA

STATE
AL

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZTL, BHM APCH, APT MGR

FLIGHT CHECKED BY

JEREMY C LEIGHTON

Digitally signed by

CASIMIR L TABAKA

Dec 07, 2022

OFFICE

FPO

DATE

12/27/2022

DEVELOPED BY

CASIMIR L. TABAKA (THERON CYRUS)

Digitally signed by

CASIMIR L TABAKA

Dec 07, 2022

OFFICE

AJV-A432

DATE

10/26/2022

APPROVED BY

CASIMIR TABAKA

Digitally signed by

CASIMIR L TABAKA

Dec 07, 2022

OFFICE

AJV-A430

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTCL
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	331236.5400N
LTP/FTP LONGITUDE	0873709.0390W
LTP/FTP ELLIPSOIDAL HEIGHT	+00177
FPAP LATITUDE	331343.9005N
FPAP LONGITUDE	0873559.3440W
THRESHOLD CROSSING HEIGHT (TCH)	00053.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	F8A022B4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00466
FPAP ORTHOMETRIC HEIGHT	+00466

