

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</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
HUNTSVILLE INTL-CARL T JONES FIELD	KHSV	RNAV (GPS) RWY 18R	2	HUNTSVILLE	AL
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>
629	629	RNAV (GPS) RWY 18R	1B	02/01/2018	4W
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u>
RNAV		20 JUNE 2019	ROUTINE		2020

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 095/30 CW 275/30	NOPT	095/10 CW 275/10		4100
2. 095/10 CW 275/10		HAGUR	IF/IAF	3000
3. 275/30 CW 095/30		275/10 CW 095/10		4000
4. 275/10 CW 095/10		HAGUR	IAF	3000

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>
HAGUR	IF/IAF	GETEC		TF	FB	1.00	184.95	4.81	2500
GETEC		FEKER		TF	FB	1.00	184.95	2.46	2100
FEKER	FAF	RW18R	MAP	TF	FO	0.30	184.95	4.45	
RW18R	MAP	829 MSL		CA			184.95		
829 MSL		BOSAC		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW18R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT BOSAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
22
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. HOLD N HAGUR, RT, 184.95 INBOUND, 3000 FT. IN LIEU OF PT (IF/IAF), MAX 5000.
3. FAC: 184.95FAF: FEKERDIST FAF TO MAP: 4.45DIST FAF TO THLD: 4.45
4. MIN ALT: HAGUR 3000, GETEC 2500, FEKER 2100
5. DIST TO THLD FROM OM:MM:IM:150 HAT:200 HAT: 0.45GS ANT:
6. MIN GP INCPT: 2100GP ALT AT FAF : FEKER 2100OM:MM:IM:
7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 55.7
8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10°C OR ABOVE 54°C.
CHART NOTE: CIRCLING NA FOR CATS C/D/E EAST OF RWY 18L- 36R.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV CAT E VISIBILITY TO 1 3/8 SM, AND LNAV CAT C/D/E VISIBILITY TO 1 5/8 SM.
CHART PLANVIEW NOTE: CAUTION NUMEROUS MIGRATORY BIRD FLOCKS IN AREA. WILDLIFE REFUGE AREA SOUTH OF AIRPORT.

ADDITIONAL FLIGHT DATA:

CHART NOTE: ASR
CHART CIRCLING ICON.
CHART R2104A, 2104B, 2104C
CHART WHEELER NATIONAL WILDLIFE REFUGE
CHART VDP AT 1.61 NM TO RW18R*
*LNAV ONLY
WAAS CHANNEL #58206
REFERENCE PATH ID: W18B
FAS OBST: 935 AAO 344251N/0864609W.
CHART: 906 TOWER 344315N/0864606W.
FAS OBST: 960 AAO 344342N/0864530W.
HOLD S, LT, 004.95 INBOUND
LTP HAE: 163.4 M



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

ALTERNATE: NA ☐ STANDARD - CAT E 800-2 1/4

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
LPV DA	829	1800	200	829	1800	200	829	1800	200	829	1800	200	829	1800	200
LNAV/VNAV DA	1071	4500	442	1071	4500	442	1071	4500	442	1071	4500	442	1071	4500	442
LNAV MDA	1200	2400	571	1200	2400	571	1200	1 1/4	571	1200	1 1/4	571	1200	1 1/4	571
CIRCLING	1200	1	571	1200	1	571	1200	1 5/8	571	1240	2	611	1260	2 1/4	631

CHANGES - REASONS

1. TAA ADDED. INITIALS ELKED-JASEXAND HATAS-JASEX REMOVED. - FPT REQUEST
2. LNAV/VNAV DA INCREASED FROM 1017/388 TO 1071/442; VISIBILITY INCREASED FROM 4000 TO 4500. - NEW CONTROLLING OBSTACLE.
3. LNAV MDA INCREASED FROM 1120/491 TO 1200/571; CAT C VISIBILITY INCREASED FROM 4000 TO 1 1/4 SM, CAT D VISIBILITY INCREASED FROM 5000 TO 1 1/4 SM, AND CAT E VISIBILITY UPDATED FROM 6000 TO 1 1/4 SM. - NEW CONTROLLING OBSTACLE.
4. CIRCLING CATS A/B/C MDA/HAA INCREASED FROM 1160/531 TO 1200/571; CAT E MDA INCREASED FROM 1240/611 TO 1260/631. CIRCLING CAT C VISIBILITY INCREASED FROM 1 1/2 SM TO 1 5/8 SM. - NEW CIRCLING RADII APPLIED IAW 8260.3D.
5. NA WHEN LOCAL WEATHER NOT AVAILABLE REMOVED. - ALL REFERENCES TO SECONDARY ALTIMETER HAVE BEEN REMOVED.
6. TERMINAL ROUTES: JASEX TO GETEC UPDATED TO HAGUR TO GETC; DISTANCE UPDATED FROM 3.60 NM TO 4.81 NM. - INTERMEDIATE LEG EXTENDED IAW 8260.58A, CHG. 1 5-6-2D.
7. TERMINAL ROUTES: GETEC TO FEKER DISTANCE UPDATED FROM 2.50 NM TO 2.46 NM; FEKER TO RW18R DISTANCE UPDATED FROM 4.41 NM TO 4.45 NM. - PFAF MOVED DUE TO CURRENT PFAF FORMULA FROM 8260.58A, CHG 1.
8. LINE 2 UPDATED FROM PROFILE STARTS AT JASEX TO HOLD N HAGUR, RT, 184.95 INBOUND, 3000 FT IN LIEU OF PT (IF/IAF), MAX 5000. - HOLD-IN-LIEU ADDED.
9. LINE 3: DIST. FAF TO MAP AND THLD UPDATED FROM 4.41 NM TO 4.45 NM. - PFAF MOVED DUE TO CURRENT PFAF FORMULA FROM 8260.58A, CHG 1.
10. LINE 4: UPDATED JASEX 3000 TO HAGUR 3000. - INTERMEDIATE LEG EXTENDED IAW 8260.58A, CHG 1 5-6-2 D.
11. LINE 7 20:1 IS CLEAR ADDED. - NO 20:1 PENETRATIONS EXIST.
12. LINE 7: TCH UPDATED FROM 50.0 TO 55.7. - 55.7 DESIGN TCH USED ON ILS OR LOC RWY 18R PROCEDURE.
13. LINE 8 MSA FROM: RW18R 3700 REMOVED. - MSA REMOVED.
14. ADDITIONAL FLIGHT DATA: HOLD UPDATED FROM RT TO LT. - FPT REQUEST.
15. ADDITIONAL FLIGHT DATA: CHART CIRCLING ICON ADDED. - NEW CIRCLING RADII APPLIED IAW 8260.3D.
16. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 870 TANK 344227N/0864759W UPDATED TO FAS OBST: 935 AAO 344251N/0864609W. - NEW LNAV CONTROLLING OBSTACLE.
17. ADDITIONAL FLIGHT DATA: CHART 849 TREE 344317N/0864742W REMOVED. CHART: 906 TOWER 344215N/0864606; FAS OBST: 960 AAO 344342N/0864530W ADDED. - NEW 7:1 OBSTACLES.
18. ADDITIONAL FLIGHT DATA: CHART VDP UPDATED FROM 1.39 NMTO RW18R* TO 1.61 NM TO RW18R*. - LNAV MDA INCREASED.
19. CHART NOTE: CIRCLING NA FOR CAT E EAST FOR RWY 18L-36R UPDATED TO CIRCLING NA FOR CATS C/D/E EAST OF RWY 18L-36R. - NEW CIRCLING RADII EXTENDS INTO RESTRICTED AREA.
20. CHART NOTE: DME/DME RNP-0.3 NA REMOVED. PBN REQUIREMENTS NOTE: RNP APCH ADDED. - IAW 8260.19H 8-6-8 B(1).
21. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 48C (118F) UPDATED TO -10C TO 54C. - FAHRENHEIT REMOVED IAW 8260.19H 8-6-9 S; NEW 5-YEAR WEATHER STUDY COMPLETED.
22. CHART NOTE: MOVED ALTERNATE ALTIMETER NOTE TO 8260-9 PART C - REMARKS. - IAW 8260.19H 8-6-9 F(3).
23. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING DECATUR ALTIMETER SETTING MOVED TO 8260-9 PART-C REMARKS. - IFP POLICY - 2/14/2017 - WMSCR BACKUP ALTIMETER SOURCE.
24. CHART NOTE: FOR INOPERATIVE ALS WHEN USING DECATUR ALTIMETER SETTING MOVED TO 8260-9 PART-C REMARKS. - IFP POLICY - 2/14/2017 - WMSCR BACKUP ALTIMETER SOURCE.
25. CHART NOTE: UPDATED "FOR INOPERATIVE ALS" FROM LNAV/VNAV CAT E VISIBILITY FROM RVR 6000 TO LNAV/VNAV CAT E VISIBILITY TO 1 3/8 SM, AND LNAV CAT E VISIBILITY T FROM 1 3/4 SM TO CAT C/DE TO 1 5/8 SM. - NEW INOP VISIBILITY TABLE USED.
26. FAS DATA: FPAP LATITUDE/LONGITUDE UPDATED FROM 343705.4170N/0864658.0470W TO 343705.4138N/0864658.0612W. - NEW FPAP LOCATION.
27. FAS DATA: COURSE WIDTH AT THRESHOLD UPDATED FROM 108.50 TO 106.75. - 8260.58A.
28. FAS DATA: CRC REMAINDER UPDATED FROM 4C33C15B TO A958D86E. - FPAP LATITUDE/LONGITUDE UPDATED.
29. CHART PLANVIEW NOTE: CAUTION NUMEROUS MIGRATORY BIRD FLOCKS IN AREA. WILDLIFE REFUGE AREA SOUTH OF AIRPORT ADDED. - MATCH ALL OTHER RNAV PROCEDURES.



AIRPORT

HUNTSVILLE INTL-CARL T JONES FIELD

AIRPORT ID

KHSV

PROCEDURE NAME

RNAV (GPS) RWY 18R

ORIGINAL/AMENDMENT

2

CITY

HUNTSVILLE

STATE

AL

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZME, HSV APCH, ST AERO, AMGR, ATA

FLIGHT CHECKED BY

ANTHONY D VALLERA

Digitally signed by

OFFICE

DATE

WARDELL HENNING

FICO

3/13/19

May 10, 2019

Digitally signed by

WARDELL HENNING

OFFICE

DATE

AJV-A432

10/29/2018

May 10, 2019

DEVELOPED BY

WARDELL HENNING (BARBARA GORMAN)

APPROVED BY

PATRICK MULQUEEN

Digitally signed by

WARDELL HENNING

May 10, 2019

OFFICE

AJV-A43

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHSV
RUNWAY	RW18R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18B
LTP/FTP LATITUDE	343910.0270N
LTP/FTP LONGITUDE	0864655.5620W
LTP/FTP ELLIPSOIDAL HEIGHT	+01634
FPAP LATITUDE	343705.4135N
FPAP LONGITUDE	0864658.0610W
THRESHOLD CROSSING HEIGHT (TCH)	00055.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER	A958D86E
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01915
FPAP ORTHOMETRIC HEIGHT	+01915

