

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> HARRISBURG-RALEIGH	<u>AIRPORT ID</u> KHSB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 24	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> HARRISBURG	<u>STATE</u> IL	
<u>AIRPORT ELEVATION</u> 398	<u>TDZE</u> 396	<u>SUPERSEDED</u> RNAV (GPS) RWY 24	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 09/23/2010	<u>MAG VAR</u> 0E	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 13 SEPTEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 153/30 CW 333/30	NOPT	153/9 CW 333/9		2300
2. 153/9 CW 333/9		JIVSO	IF/IAF	2000
3. 333/30 CW 063/30		333/5 CW 063/5		2700
4. 333/5 CW 063/5		IPEYU	IAF	2000
5. 063/30 CW 153/30		063/5 CW 153/5		2700
6. 063/5 CW 153/5		TIYUP	IAF	2000

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>
IPEYU	IAF	JIVSO	NOPT	TF	FB	1.00	333.26	5.00	2000
TIYUP	IAF	JIVSO	NOPT	TF	FB	1.00	153.20	5.00	2000
JIVSO	IF/IAF	LAGLE		TF	FB	1.00	243.23	6.10	2000
LAGLE	FAF	FASKI/1.90 NM TO RW24		TF	FB	0.30	243.16	2.96	
FASKI/1.90 NM TO RW24		RW24	MAP	TF	FO	0.30	243.12	1.90	
RW24	MAP	697 MSL		CA			243.12		
697 MSL		JATUS		DF	FO	1.00			2700



MISSED APPROACH

MAP:
LPV: DA
LNAV/VNAV: DA
LNAV: RW24

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2700 DIRECT JATUS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)					
2.	HOLD NE JIVSO, RT, 243.23 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 6000.								
3. FAC:	243.16	FAF: LAGLE	DIST FAF TO MAP: 4.86	DIST FAF TO THLD: 4.86					
4. MIN ALT:	JIVSO 2000, LAGLE 2000, FASKI/1.90 NM TO RW24 1020*								
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	301 HAT: 0.83	GS ANT:				
6. MIN GP INCPT: 2000	GP ALT AT FAF : LAGLE 2000		OM:	MM:	IM:				
7. GP ANGLE: 3.00	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 35.0						
8. MSA FROM:									

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C.
CHART NOTE: RWY 24 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.4 NM TO RW24*
*LNAV ONLY
WAAS CHANNEL #56519
REFERENCE PATH ID: W24A
CHART FAS OBST: 549 TANK 374934N/0883239W.
HOLD SW, RT, 062.96 INBOUND
LTP HAE: 91 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD



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	697	1	301	697	1	301	697	1	301	697	1	301			
LNAV/VNAV DA	859	1 3/4	463	859	1 3/4	463	859	1 3/4	463	859	1 3/4	463			
LNAV MDA	880	1	484	880	1	484	880	1 1/4	484	880	1 1/2	484			
CIRCLING	880	1	482	1020	1	622	1020	1 3/4	622	1020	2	622			

CHANGES - REASONS

1. TERMINAL ROUTES, JIVSO TO LAGLE, RNP VALUE CHANGED FROM 0.50 TO 1.00 - INTERMEDIATE RNP VALUE UPDATED TO NEW VALUE.
2. TERMINAL ROUTES, RW24 (MAP) TO 693 MSL CHANGED TO RW24 (MAP) TO 697 MSL - CA ALTITUDE MUST BE THE LOWEST OF DA, MDA OR 400 ABOVE AIRPORT ELEVATION.
3. TERMINAL ROUTES, 693 MSL TO JATUS CHANGED TO 697 MSL TO JATUS - CA ALTITUDE MUST BE THE LOWEST OF DA, MDA OR 400 ABOVE AIRPORT ELEVATION.
4. PROFILE LINE 7, NOTE ADDED: 20:1 IS CLEAR - IAW 8260.19H PARA 8-6-7G(3).
5. LPV MINIMA CHANGED FROM 693 DA/297 HAT TO 697 DA/301 HAT - NEW CONTROLLING OBSTACLE.
6. ADDITIONAL FLIGHT DATA, DELETED FAS OBSTS: 619 TREE 375028N/0883050W AND 549 TREE 374945N/0883128W. 549 TANK 374934N/0883239W ADDED - NONPRECISION CONTROLLING OBSTACLES ONLY IAW 8260.19H PARA 8-6-10 C. NEW NONPRECISION CONTROLLING OBSTACLE.
7. ADDITIONAL FLIGHT DATA, NOTE UPDATED FROM 'DISTANCE TO THLD FROM 297 HAT: 0.82 NM' TO 'DISTANCE TO THLD FROM 301 HAT: 0.83 NM - LPV HAT INCREASED WHICH MOVED THE DISTANCE TO THLD FURTHER OUT, VALUE VERIFIED USING THE 8260.54A, FORMULA 4-14.
8. ADDITIONAL FLIGHT DATA, NOTE ADDED: CHART VDP AT 1.40 NM TO RW24* *LNAV ONLY - PRIMARY ALTIMETER SOURCE LOCAL TO AIRPORT. 20:1 STR-IN PENETRATIONS CLEAR. VDP MORE THAN .5NM AFTER STEPDOWN.
9. NOTE DELETED: BARO-VNAV NA WHEN USING WILLIAMSON COUNTY RGNL ALTIMETER SETTING - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
10. NOTE UPDATED FROM 'FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 48C (118F)' TO 'FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C' - IAW 8260.19H PARA 8-6-9 S.
11. NOTE DELETED: VISIBILITY REDUCTION BY HELICOPTERS NA - NOTE REPLACED WITH NEW HELICOPTER VISIBILITY NOTE.
12. NOTE ADDED: RWY 24 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - 34:1 PENETRATIONS PUBLISHED IAW 8260.19H PARA 8-6-11K(3).
13. NOTE DELETED: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILLIAMSON COUNTY REGIONAL ALTIMETER SETTING AND INCREASE ALL DA 62 FEET AND ALL MDA 80 FEET; INCREASE LPV ALL CATS, LNAV/VNAV ALL CATS, LNAV CATS C AND D AND CIRCLING CATS C AND D VISIBILITY 1/4 MILE - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
14. NOTE DELETED: DME/DME RNP-0.3 NA - NOTE REPLACED WITH NEW PBN EQUIPMENT REQUIREMENT NOTE.
15. PBN EQUIPMENT REQUIREMENT NOTE ADDED: RNP APCH - PER MEMO 257.
16. NOTE DELETED: ALTERNATE MINIMUMS NA WHEN LOCAL WEATHER NOT AVAILABLE - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
17. DELETED 'VGSI AND DESCENT ANGLES NOT COINCIDENT - VGSI DATA 3.00/35' - MATCHES DESIGN GPA/TCH EXACTLY.



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<u>COORDINATED WITH:</u>					
A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZKC, ZME, ZID, AMGR					
<u>FLIGHT CHECKED BY</u> SCOTT WIEBE		<i>Digitally signed by</i> DAVID TEFFETELLER Aug 02, 2018	<u>OFFICE</u> FICO	<u>DATE</u> 07/29/2018	
<u>DEVELOPED BY</u> ANDREA CHANEY		<i>Digitally signed by</i> DAVID TEFFETELLER Aug 02, 2018	<u>OFFICE</u> AJV-5433	<u>DATE</u> 04/04/2018	
<u>APPROVED BY</u> PATRICK MULQUEEN					<u>TITLE</u> MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHSB
RUNWAY	RW24
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	374854.6985N
LTP/FTP LONGITUDE	0883238.3810W
LTP/FTP ELLIPSOIDAL HEIGHT	+00091
FPAP LATITUDE	374814.3300N
FPAP LONGITUDE	0883418.6400W
THRESHOLD CROSSING HEIGHT (TCH)	00035.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	B395C4E7
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01208
FPAP ORTHOMETRIC HEIGHT	+01208

