

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> 48K	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> NESS CITY	<u>STATE</u> KS		
<u>AIRPORT ELEVATION</u> 2322	<u>TDZE</u> 2315	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<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. 262/30 CW 082/30	NOPT	HABAT	IF/IAF	4600
2. 082/30 CW 262/30		HABAT	IF/IAF	4400

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>
HABAT	IF/IAF	FLUMP		TF	FB	1.00	351.91	5.00	4000
FLUMP	FAF	RW35	MAP	TF	FO	0.30	351.91	5.25	
RW35	MAP	2696 MSL		CA			351.91		
2696 MSL		NESBY		DF	FO	1.00			4400

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW35

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4400 DIRECT NESBY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD S HABAT, RT, 351.91 INBOUND, 4400 FT. IN LIEU OF PT (IAF), MAX 6400.

3. FAF: 351.91FAF: FLUMPDIST FAF TO MAP: 5.25DIST FAF TO THLD: 5.25

4. MIN ALT: HABAT 4400, FLUMP 4000

5. DIST TO THLD FROM OM:MM:IM:150 HAT:381 HAT: 1.15GS ANT:

6. MIN GP INCPT: 4000GP ALT AT PFAF : FLUMP 4000OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 40.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: BARO-VNAV NA.

ADDITIONAL FLIGHT DATA:

CHART NOTE: USE HAYS REGIONAL ALTIMETER SETTING, WHEN NOT RECEIVED, USE HILL CITY ALTIMETER SETTING AND INCREASE LPV DA TO 2702 FEET, INCREASE LNAV VNAV DA TO 2714 FEET, INCREASE ALL MDAS 20 FEET.
CHART HAYS RGNL AWOS-3PT
HOLD N, RT, 171.91 INBOUND.
FAS OBST: 2470 AAO 382342N/0995432W.
CHART 2490 AAO 382306N/0995447W.
WAAS CHANNEL # 82244
REFERENCE PATH ID: W35A
LTP HAE: 671.4 M

MINIMUMS:

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

ALTERNATE: NA ☒

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	2696	1 1/8	381	2696	1 1/8	381		NA			NA				
LNAV/VNAV DA	2708	1 1/8	393	2708	1 1/8	393		NA			NA				
LNAV MDA	2860	1	545	2860	1	545		NA			NA				
CIRCLING	3020	1	698	3140	1 1/4	818		NA			NA				



AIRPORT ID
48K

PROCEDURE NAME
RNAV (GPS) RWY 35

ORIGINAL/AMENDMENT
ORIG

CITY
NESS CITY

STATE
KS

CHANGES - REASONS

ORIGINAL PROCEDURE

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZKC, ZDV, AMGR

FLIGHT CHECKED BY
MICHAEL S MILLER

Digitally signed by
CASIMIR L TABAKA
Jan 13, 2023

OFFICE
FPO
DATE
01/12/2023

DEVELOPED BY
APRIL SARMENTO

Digitally signed by
APRIL T SARMENTO
Nov 15, 2022

OFFICE
AJV-A432
DATE
10/12/2022

APPROVED BY
JOHNNIE BAKER

Digitally signed by
CASIMIR L TABAKA
Nov 18, 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	48K
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	382805.7570N
LTP/FTP LONGITUDE	0995432.7865W
LTP/FTP ELLIPSOIDAL HEIGHT	+06714
FPAP LATITUDE	382934.9485N
FPAP LONGITUDE	0995432.9710W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	0B6F365E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+06973
FPAP ORTHOMETRIC HEIGHT	+06973

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
48K	RNAV (GPS) RWY 35	ORIG	NESS CITY	KS	2322	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
262/30 CW 082/30

TO
HABAT

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (20-001663)	375556.00N/1001904.00W	3556	500	50	5D	1000					4600
TERRAIN	381712.00N/1003236.00W	2877 (2900)								AS1500	4400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM
082/30 CW 262/30

TO
HABAT

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (20-002575)	383632.00N/0994212.00W	3343	500	50	5D	1000					4400
TERRAIN	381742.00N/1003236.00W	2877 (2900)								AS1500	4400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

HABAT (IF/IAF)

TO

FLUMP

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.00											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	382003.32N/0995320.44W		2549	50	20	2C	500				AT951	4000
TERRAIN	381857.00N/0995703.00W		2335 (2300)								AS1500	3800

COMPUTATIONS												
ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE	

SEGMENT REMARKS:

FINAL: LPV

FROM

FLUMP

TO

DA

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.25		DA			381						
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
ANTENNA (20-054895)	382757.83N/0995430.13W		2309	20	3	1A		ASC			RA131	2696

COMPUTATIONS												
ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE	

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM

FLUMP

TO

DA

<u>RNP</u>	<u>DISTANCE</u> 5.25	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 393			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
ELEVATOR (20-054870)	382707.26N/0995456.81W		2435	20	3	1A	142				RA131	2708

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV

FROM

FLUMP

TO

RW35

<u>RNP</u>	<u>DISTANCE</u> 5.25	<u>PAT</u>	<u>MAP</u> RW35	<u>HAT</u> 545			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	382341.52N/0995431.98W		2470	50	20	2C	250				RA131	2860

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

HABAT

TO

P-6

RNP	DISTANCE	PAT P-6	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (20-001331)	381345.35N/0995458.83W		2841	500	50	5D	1000				AT 559	4400
TERRAIN	380812.00N/0995648.00W		2477 (2500)								AS1500	4000

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH : LPV

FROM

DA

TO

NESBY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 2366					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4400
TOWER (20-000866)	383815.00N/0995620.00W		2826	500	50	5D	1000					2900
TERRAIN	383806.00N/0995706.00W		2516 (2500)								AS1500	4000

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

NESBY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 2435					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4400
TOWER (20-000866)	383815.00N/0995620.00W		2826	500	50	5D	1000					2900
TERRAIN	383806.00N/0995706.00W		2516 (2500)								AS1500	4000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM

RW35

TO

NESBY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 2629					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4400
TOWER (20-000866)	383815.00N/0995620.00W		2826	500	50	5D	1000					2900
TERRAIN	383806.00N/0995706.00W		2516 (2500)								AS1500	4000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (20-061773)	382756.40N/0995253.98W	1.33	698	2586	20	3	1A	300		RA131	3020
CATEGORY B											
TOWER (20-001717)	382751.00N/0995215.00W	1.89	818	2696	50	20	2C	300		RA131	3140

CIRCLING REMARKS:

CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZKC ARTCC

<u>WX SERVICE</u> AWOS-3PT	<u>LOCATION</u> KHYS	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KHYS	<u>DISTANCE</u> 37.16	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 131
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KHLC	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KHLC	<u>DISTANCE</u> 54.10	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 137

WX REMARKS:
PRESSURE PATTERNS THE SAME.
K48K 2322, KHYS 1998, RA=130.8
KHLC 2238, RA=136.2

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u> MOCC	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW17 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)		NPI-G	
RW35 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)		NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 2287.6	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 40.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -19C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -19C	<u>APT ISA</u> +10.4C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 732 HIGH TEMP 1159.

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	RWY 35 LPV, LNAV/VNAV, LNAV
34:1	
2309 ANTENNA (20-054895) 382757.83N/0995430.13W (3.69)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - REMOTE PRIMARY ALTIMETER.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FT VEGETATION

ORDER 8260.3 CHAPTER 2 APPLIED TO 2490 AAO 382305.67N/0995447.03W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

<div>AIRPORT ID</div> <div>48K</div>	<div>PROCEDURE NAME</div> <div>RNAV (GPS) RWY 35</div>	<div>AMDT NO.</div> <div>ORIG</div>	<div>CITY</div> <div>NESS CITY</div>	<div>STATE</div> <div>KS</div>	<div>AIRPORT ELEVATION</div> <div>2322</div>	<div>FACILITY</div> <div>RNAV</div>
PART D: AIRSPACE						
DOCKET # 20-ACE-2						
ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE						
DISTANCE FROM	MAP	TO 1000FT POINT	3.05			
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20			
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	359.91			
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	2300			
DISTANCE FROM	MAP	TO 1500FT POINT	4.85			
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76			
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	359.91			
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	2300			
THRESHOLD COORDINATES (IF STR-IN)	382805.76N/0995432.79W					
ARP COORDINATES	382825.53N/0995432.83W					
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 35 DISTANCE 0.33 NM					
FAF COORDINATES	382250.36N/0995432.14W					
FIX NAME COORDINATES	IF/IAF HABAT: 381750.05N/0995431.52W					
REMARKS						

QUALITY
20
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> APRIL SARMENTO	<u>OFFICE</u> AJV-A432	<u>DATE</u> 10/12/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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