

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> SAMUELS FIELD	<u>AIRPORT ID</u> KBRY	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 21	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> BARDSTOWN	<u>STATE</u> KY
<u>AIRPORT ELEVATION</u> 669	<u>TDZE</u> 669	<u>SUPERSEDED</u> RNAV (GPS) RWY 21	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 03/29/2018	<u>MAG VAR</u> 5W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 117/30 CW 157/30	NOPT	OXVOR	IF/IAF	3000
2. 157/20 CW 207/20		OXVOR	IF/IAF	3000
3. 207/30 CW 297/30	NOPT	OXVOR	IF/IAF	3000
4. 157/30 CW 207/30	NOPT	157/20 CW 207/20		3600
5. 297/30 CW 027/30		ESSEV	IAF	3100
6. 027/30 CW 117/30		FAMRU	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>
FAMRU	IAF	OXVOR	NOPT	TF	FB	1.00	116.50	5.50	3000
ESSEV	IAF	OXVOR	NOPT	TF	FB	1.00	296.63	5.50	3000
OXVOR	IF/IAF	UNDOZ		TF	FB	1.00	206.57	6.00	2500
UNDOZ	FAF	RW21	MAP	TF	FO	0.30	206.54	5.62	
RW21	MAP	919 MSL		CA			206.54		
919 MSL		MAKRZ		DF	FO	1.00			3100



MISSED APPROACH

MAP:
LPV: DA
LNAV/VNAV: DA
LNAV: RW21

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 3100 DIRECT MAKRZ AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. HOLD NE OXVOR, RT, 206.57 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 206.54

FAF: UNDOZ

DIST FAF TO MAP: 5.62

DIST FAF TO THLD: 5.62
4. MIN ALT: OXVOR 3000, UNDOZ 2500
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

250 HAT: 0.66

GS ANT:
6. MIN GP INCPT: 2500

GP ALT AT FAF : UNDOZ 2500

OM:

MM:

IM:
7. GP ANGLE: 3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 40.0
8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART SPEED ICON IN PLANVIEW AT OXVOR: MAX 180 KIAS.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.51 NM TO RW21*
*LNAV ONLY
WAAS CHANNEL #77816
REFERENCE PATH ID: W21A
FAS OBST: 930 AAO 375223N/0852807W.
HOLD SW, RT, 026.45 INBOUND
LTP HAE: 170.2 M



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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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	919	3/4	250	919	3/4	250	919	3/4	250	919	3/4	250			
LNAV/VNAV DA	1051	1 1/8	382	1051	1 1/8	382	1051	1 1/8	382	1051	1 1/8	382			
LNAV MDA	1180	1	511	1180	1	511	1180	1 3/8	511	1180	1 3/8	511			
CIRCLING	1200	1	531	1260	1	591	1360	2	691	1480	2 3/4	811			

- CHANGES - REASONS**
- 1. REMOVED CHART NOTE: DME/DME RNP-0.3 NA - THE NA NOTE HAS BEEN REPLACED WITH PBN NAVSPEC REQUIREMENTS.
 - 2. REMOVED CHART NOTE: CIRCLING RWY 3 NA AT NIGHT - 20:1 OBSTACLES REMOVED.

08/07/2019: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON: 07/24/2019:
1. ADDED "ROUTINE" TO REQUIRED EFFECTIVE DATE.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ **OTHER:** ZID, SDF APP CON, AMGR

FLIGHT CHECKED BY
PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY
WARDELL HENNING (TODD BOWLING)

APPROVED BY
LONNIE EVERHART

Digitally signed by
WARDELL HENNING
Aug 08, 2019

OFFICE *Digitally signed by* **DATE**
WARDELL HENNING
Aug 08, 2019

OFFICE **DATE**
AJV-A432 06/10/2019

OFFICE **DATE**
AJV-A430

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBRY
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	374914.5665N
LTP/FTP LONGITUDE	0852947.2740W
LTP/FTP ELLIPSOIDAL HEIGHT	+01702
FPAP LATITUDE	374751.5755N
FPAP LONGITUDE	0853028.4930W
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	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	F229291E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02038
FPAP ORTHOMETRIC HEIGHT	+02038

