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.

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AIRPORT AIRPORT ID LOUISA COUNTY/FREEMAN FIELD KLKU			PROCEDURE NAME RNAV (GPS) RWY 9			ORIGINAL/AMENDMENT 1			<u>CITY</u> LOUISA	STATE VA
AIRPORT ELEVATION 494	<u>TDZ</u> 489		SUPERSEDED RNAV (GPS) RWY 9				DATED 12/10/2015	MAG VAR 10W	<u>EPOCH YEAR</u> 2010	
FACILITY RNAV			ACTUAL EFFECTIVE DATE 15 AUGUST 2019		REQUIRED EFFECTIVE DATE ROUTINE		CANCEL/SUSPEND			
ΤΑΑ										
FROM	FIX TYPE	<u>T0</u>	FIX TYPE	ALTITUDE						
1. 002/30 CW 182/30	NOPT	002/6 CW 182/6		6100	1					
2. 002/6 CW 182/6		WEBBR	IF/IAF	3300	1					
3. 182/30 CW 002/30		182/6 CW 002/6		5000						
4. 182/6 CW 002/6		WEBBR	IAF	3300						
TERMINAL ROUTES				1						
FROM	FIX TYPE	<u>T0</u>	FIX TYPE	LEG TYPE	FO/FB	<u>RNP</u>	COURSE	<u>.</u>	DISTANCE	ALTITUDE
WEBBR	IF/IAF	PREAK		TF	FB	1.00	092.20		4.98	2200
PREAK	FAF	LIRKE/2.80 NM TO RW09		TF	FB	0.30	092.26		2.51	
LIRKE/2.80 NM TO RW0	9	RW09	MAP	TF	FB	0.30	092.26		2.80	
RW09	MAP	1000 MSL		CA			092.26			1000
1000 MSL		TURCO		DF	FO	1.00				3300

MISSED APPROACH

MAP:

LPV: DA LNAV/VNAV: DA LNAV: RW09

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 3300 DIRECT TURCO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

AIRPORT	AIRPORT II	<u>)</u>	PROCEDURE NAME	ORIGINAL/A	MENDMENT <u>CITY</u>	<u>STATE</u>
LOUISA COUNTY/FREEMAN	FIELD KLKU		RNAV (GPS) RWY 9		LOUISA	VA
PROFILE:						
1. PT SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)			
2. HOLD W WEBBR, RT, 092.20	INBOUND, 3300 FT. IN LIEU C	0F PT (IAF), MAX 6000.				
3. FAC: 092.26 FAF: PRE/	AK DIS	5T FAF TO MAP: 5.31	DIST FAF TO	THLD: 5.31		
4. MIN ALT: WEBBR 3300, PRE	EAK 2200, LIRKE/2.80 NM TO	RW09 1400*				
5. DIST TO THLD FROM OM:	MM:	IM: 150 HAT:	250 HAT: 0.72	GS ANT:		
6. MIN GP INCPT: 2200	GP ALT AT FAF : PRE	AK 2200	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: CIRCLING NA NORTH OF RWY 9-27. CHART NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ORANGE ALTIMETER SETTING AND INCREASE LPV DA TO 775 FEET, LNAV/VNAV DA TO 784 FEET AND ALL MDA 40 FEET; INCREASE LPV AND LNAV/VNAV VISIBILITY 1/8 SM. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING ORANGE ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON. CHART VDP AT 1.04 NM TO RW09* *LNAV ONLY WAAS CHANNEL #48843 REFERENCE PATH ID: W09A CHART FAS OBST: 586 TANK 380055N/0775901W. HOLD SW, RT, 062.77 INBOUND LTP HAE: 110.7 M

MINIMUMS:

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

ALTERNATE: NA	STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.
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CATEGORY:		Α			В			С			D			Е	
FINAL TYPE	DA/MDA	VIS	HAT/HAA												
LPV DA	739	3/4	250	739	3/4	250		NA			NA				
LNAV/VNAV DA	748	3/4	259	748	3/4	259		NA			NA				
LNAV MDA	840	1	351	840	1	351		NA			NA				WALIT
CIRCLING	900	1	406	960	1	466		NA			NA				22
															HECKER

AIRPORT	<u>AIRPORT ID</u>	PROCEDURE NAME	ORIGINAL/AMENDMENT	<u>CITY</u>	STATE
LOUISA COUNTY/FREEMAN FIELD	KLKU	RNAV (GPS) RWY 9	1	LOUISA	VA

CHANGES - REASONS

1. RAISED MISSED APPROACH CLIMB TO ALTITUDE BEFORE TURNING FROM 900 TO 1000 - LNAV/VNAV MISSED APPROACH SECTION 2 PENETRATION BY 819 FT MSL TOWER (51-000969) 380118.11N/0780014.70W.

2. CHANGED CHART NOTE "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ORANGE ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET" TO READ "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ORANGE ALTIMETER SETTING AND INCREASE LPV DA TO 775 FEET, LNAV/VNAV DA TO 784 FEET AND ALL MDA 40 FEET AND INCREASE LPV AND LNAV/VNAV VISIBILITY 1/8 SM" - RASS VALUE CHANGED WITH UTILIZING NEW TARGETS PROGRAMMING AND IAW AJV-5 VISICHECK TOOL SOP AND ADDING LPV AND LNAV/VNAV LINES OF MINIMA.

3. ADDED LPV AND LNAV/VNAV LINES OF MINIMA AND ALL ASSOCIATED NOTES - NEW VG RUNWAY SURVEYS PERMIT NEW LINES.

4. VDP RELOCATED FROM 1.2 NM TO MAP TO 1.04 NM TO MAP - NEW LOCATION PER TARGETS EVALUATION AND LOWER LNAV MDA.

5. LOWERED LNAV MDA FROM 880 TO 840 - NEW CONTROLLING OBSTACLES DUE TO NEW RUNWAY SURVEY OBSTACLE DATA.

6. TDZE AND APT ELEV CHANGED FROM 488/493 TO 494/494 - NEW AIRPORT SURVEY DATA AVBL IN AIRNAV.

7. REMOVED FARENHEIT TEMPS FROM THE LNAV/VNAV NA BELOW NOTE - NO LONGER REQUIRED.

8. CHANGED CHART NOTE VISIBILITY REDUCTION BY HELICOPTERS NA TO READ: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - 20:1 PENETRATIONS REMOVED, NOW ONLY 34:1 PENETRATIONS EXIST.

9. REMOVED CHART NOTES: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H.

10. DELETED WITTO FEEDER, ZAVRO AND TURCO INITIALS, AND MSA AND REPLACED WITH A MODIFIED HALF-MOON TAA - ATC/FPT REQUEST TO SIMPLIFY THE PROCEDURE AND MIRROR CHANGES TO THE RNAV (GPS) RWY 27 PROCEDURE.

11. ADDED H-I-L AT WEBBR - TO SUPPORT TAA DESIGN.

12. CIRCLING CAT A MDA CHANGED FROM 920 TO 900 - NEW CONTROLLING OBSTACLE DUE TO NEW RUNWAY VG SURVEY.

13. ADDED CHARTING OF WAAS CHANNEL - PROCEDURE NOW WAAS COMPATABLE.

14. CHANGED CHARTING OF FINAL ANGLE/TCH 3.00/40 TO GLIDE PATH/TCH 3.00/40 - DUE TO ADDITION OF VERTICAL FINALS.

15. ADDED CHART NOTE "LNAV ONLY" AND CALLOUT SYMBOL FOR FINAL SDF LIRKE FIX ALTITUDE - IAW 8260.19 H PARA 8-6-7D(3).

16. ADDED CHARTING OF 4 NM HOLDING PATTERN IN PROFILE VIEW AT FIX WEBBR - DUE TO ADDITION OF H-I-L SEGMENT.

			<u>NBAA</u> X	OTHER: AMGR, PCT TRACON, 2DC		
FLIGHT CHECKED B STEPHEN BAUER	<u>Digitally signed i</u> DAVID DANNE Apr 15, 2019	R		<u>OFFICE</u> FICO	DATE 4/11/19	
DEVELOPED BY DAVID DANNER (JOH	HN LINDSEY)	Digitally signed by		OFFICE AJV-A421	DATE 02/08/2019	
APPROVED BY JULIE MORGAN	Digitally signed by DAVID DANNER	DAVID DANNER Apr 15, 2019		OFFICE AJV-A42	DATE	<u>TITLE</u> MANAGER

ATUED

Apr 15, 2019

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	<u>CITY</u>	<u>STATE</u>
LOUISA COUNTY/FREEMAN FIELD	KLKU	RNAV (GPS) RWY 9	1	LOUISA	VA
FAS DATA BLOCK INFORMATION					
DATA FIELD	DATA				
OPERATION TYPE	0				
SBAS SERVICE PROVIDER IDENTIFIER	0				
AIRPORT IDENTIFIER	KLKU				
RUNWAY	RW09				
APPROACH PERFORMANCE DESIGNATOR	0				
ROUTE INDICATOR					
REFERENCE PATH DATA SELECTOR	0				
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A				
LTP/FTP LATITUDE	380032.53	15N			
LTP/FTP LONGITUDE	0775839.0	790W			
LTP/FTP ELLIPSOIDAL HEIGHT	+01107				
FPAP LATITUDE	380044.42	50N			
FPAP LONGITUDE	0775647.3	460W			
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	1440				
HORIZONTAL ALERT LIMIT (HAL)	40.0				
VERTICAL ALERT LIMIT (VAL)	50.0				
CRC REMAINDER	050803B2				
ADDITIONAL PATH POINT RECORD INFORMATIC	<u>NC</u>				
	KG				

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01431
FPAP ORTHOMETRIC HEIGHT	+01431