

**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.

<b>AIRPORT ID</b> LEX	<b>PROCEDURE NAME</b> RNAV (GPS) RWY 4	<b>ORIGINAL/AMENDMENT</b> 2	<b>CITY</b> LEXINGTON	<b>STATE</b> KY
<b>AIRPORT ELEVATION</b> 979	<b>TDZE</b> 969	<b>SUPERSEDED</b> RNAV (GPS) RWY 4	<b>DATED</b> 01/30/2020	<b>MAG VAR</b> 4W
<b>FACILITY</b> RNAV	<b>COORDINATES OF FACILITIES</b>	<b>ACTUAL EFFECTIVE DATE</b>	<b>REQUIRED EFFECTIVE DATE</b> ROUTINE	<b>EPOCH YEAR</b> 1995
				<b>CANCEL/SUSPEND</b>

**TAA**

<b>FROM</b>	<b>FIX TYPE</b>	<b>TO</b>	<b>FIX TYPE</b>	<b>ALTITUDE</b>
1. 316/30 CW 135/30	NOPT	RYYYE	IF/IAF	3200
2. 135/30 CW 225/30		UUKAY	IAF	3200
3. 225/30 CW 316/30		FRNZI	IAF	3200

**TERMINAL ROUTES**

<b>FROM</b>	<b>FIX TYPE</b>	<b>TO</b>	<b>FIX TYPE</b>	<b>LEG TYPE</b>	<b>FO/FB</b>	<b>RNP</b>	<b>COURSE</b>	<b>DISTANCE</b>	<b>ALTITUDE</b>
FRNZI	IAF	RYYYE	NOPT	TF	FB	1.00	315.54	7.00	3200
UUKAY	IAF	RYYYE	NOPT	TF	FB	1.00	135.41	7.00	3200
RYYYE	IF/IAF	BLAYD		TF	FB	1.00	045.47	5.24	2500
BLAYD	FAF	JELID/1.51 NM TO RW04		TF	FB	0.30	045.52	3.20	
JELID/1.51 NM TO RW04		RW04	MAP	TF	FO	0.30	045.52	1.51	
RW04	MAP	1169 MSL		CA			045.52		
1169 MSL		KAYFC		DF	FO	1.00			3200

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW04

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3200 DIRECT KAYFC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3200.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- |                                 |  |  |                  |                         |          |                          |      |                 |      |
|---------------------------------|--|--|------------------|-------------------------|----------|--------------------------|------|-----------------|------|
| 1. <b>PT</b>                    | <b>SIDE OF COURSE</b>                          | <b>OUTBOUND</b>                                  | <b>FT WITHIN</b> | <b>MILES OF</b>         | (IAF)    |                          |      |                 |      |
| 2.                              | HOLD SW RYYYYE, RT, 045.47                     | INBOUND, 3200 FT. IN LIEU OF PT (IAF), MAX 6000. |                  |                         |          |                          |      |                 |      |
| 3. <b>FAC:</b>                  | 045.52   | <b>FAF:</b>                                      | BLAYD            | <b>DIST FAF TO MAP:</b> | 4.71     | <b>DIST FAF TO THLD:</b> | 4.71 |                 |      |
| 4. <b>MIN ALT:</b>              | RYYYYE 3200, BLAYD 2500, JELID/1.51 NM TO RW04 | 1480   |                  |                         |          |                          |      |                 |      |
| 5. <b>DIST TO THLD FROM OM:</b> |  | <b>MM:</b>                                       |                  | <b>IM:</b>              |          | <b>150 HAT:</b>          |      | <b>200 HAT:</b> | 0.53 |
| 6. <b>MIN GP INCPT:</b>         | 2500   | <b>GP ALT AT PFAF:</b>                           | BLAYD 2500       |                         |          | <b>OM:</b>               |      | <b>GS ANT:</b>  |      |
| 7. <b>GP ANGLE:</b>             | 3.00   | <b>34:1:</b>                                     | IS CLEAR         | <b>20:1:</b>            | IS CLEAR | <b>TCH:</b>              | 59.7 | <b>MM:</b>      |      |
| 8. <b>MSA FROM:</b>             |  |  |                  |                         |          |                          |      | <b>IM:</b>      |      |

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.  
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5500, AND LNAV CATS C AND D VISIBILITY TO RVR 5500.  
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FRANKFORT ALTIMETER SETTING; INCREASE LPV DA TO 1231 FEET AND ALL VISIBILITIES TO RVR 2000; INCREASE LNAV/VNAV DA TO 1420 FEET AND ALL VISIBILITIES TO RVR 4000; INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D TO RVR 4500 AND CIRCLING VISIBILITY CAT C/D 1/4 SM.  
 CHART NOTE: BARO-VNAV NA WHEN USING FRANKFORT ALTIMETER SETTING.

**ADDITIONAL FLIGHT DATA:**

HOLD NE, RT, 225.66 INBOUND.  
 FAS OBST: 1078 POLE (21-001682) 380058N/0843718W.  
 WAAS CHANNEL # 70401  
 REFERENCE PATH ID: W04A  
 CHART CIRCLING ICON.  
 LTP HAE: 253.2 M

**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD - 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	1169	1800	200	1169	1800	200	1169	1800	200	1169	1800	200				
LNAV/VNAV DA	1340	3500	371	1340	3500	371	1340	3500	371	1340	3500	371				
LNAV MDA	1340	2400	371	1340	2400	371	1340	3500	371	1340	3500	371				
CIRCLING	1420	1	441	1440	1	461	1520	1 1/2	541	1600	2	621				



**CHANGES - REASONS**

1. CHANGED INTERMEDIATE FIX FROM SAAPP TO RYYYY – PER ATC REQUEST
2. CHANGED COURSE FRNZI IAF TO IF FROM 315.51 TO 315.54 – IAF ALIGNMENT WITH NEW FAF
3. INCREASED DISTANCE FRNZI TO IF FROM 5.00 NM TO 7.00 NM – FIX RELOCATION PER ATC REQUEST
4. CHANGED COURSE UUKAY TO IF FROM 135.43 TO 135.41 – IAF ALIGNMENT WITH NEW FAF
5. INCREASED DISTANCE UUKAY TO IF FROM 5.00 NM TO 7.00 NM – FIX RELOCATION PER ATC REQUEST
6. CHANGED FINAL APPROACH FIX FROM TUBBE TO BLAYD – PER ATC REQUEST
7. CHANGE INTERMEDIATE LEG COURSE FROM 45.46 TO 45.47 – IF ALIGNMENT WITH NEW FAF
8. DECREASED INTERMEDIATE LEG DISTANCE FROM 7.82 NM TO 5.24 NM – FIX RELOCATION PER ATC REQUEST
9. CHANGED FINAL APPROACH COURSE FROM 45.53 TO 45.52 – FIX RELOCATION
10. ADDED NEW STEPDOWN LEG JELID TO RW04 – REQUIRED TO MAINTAIN PREVIOUS LNAV MINIMUMS
11. DECREASED CA LEG ALTITUDE FROM 1274 MSL TO 1169 MSL – NEW LPV MINIMUMS
12. CHANGED MISSED APPROACH HOLDING FIX FROM UPRAW TO KAYFC – PER ATC REQUEST
13. PROFILE LINE 2 HOLDING CHANGED FROM SW SAAPP, RT, 045.46 TO SW RYYYY, RT, 045.57 – NEW HILPT FIX
14. PROFILE LINE 3 FAC CHANGED FROM 045.43 TO 045.52 – FIX RELOCATION
15. PROFILE LINE 3 INCREASED DIST FAF TO MAP AND FAF TO THLD FROM 3.73 TO 4.71 – FAF RELOCATED FOR 2500 GLIDEPATH INTERCEPT PER ATC REQUEST
16. PROFILE LINE 5 CHANGED 305 HAT TO 200 HAT AND DECREASED DISTANCE FROM 0.85 TO 0.53 – NEW LPV MINIMUMS
17. PROFILE LINE 6 MIN GP INCPY INCREASED FROM 2200 TO 2500 – PER ATC REQUEST
18. PROFILE LINE 7 34:1 CHANGED FROM 'NOT CLEAR' TO 'CLEAR' – 34:1 PENETRATION IS APPROACH LIGHT EXCLUDED IAW 8260.3E 3-3-2(C)5
19. PROFILE LINE 7 TCH DECREASED FROM 59.8 TO 59.7 – MATCH ILS RWY 4 TCH
20. UPDATED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH - GPS – 8260.191 8-6-8
21. CHANGED CHART NOTE FROM “FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO RVR 4500, LNAV/VNAV ALL CATS VISIBILITY TO RVR 6000, AND LNAV ALL CATS VISIBILITY TO RVR 5500” TO “FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 6000, AND LNAV CATS C AND D VISIBILITY TO RVR 5500” – 8260.3E TABLE 3-3-1
22. CHANGED BACKUP ALTIMETER NOTE FROM “INCREASE LPV DA TO 1336 FEET, LNAV/VNAV DA TO 1424 FEET, AND ALL MDA 80 FEET, INCREASE LNAV CAT C VISIBILITY TO RVR 4500, AND CIRCLING CAT C/D VISIBILITY 1/4 SM” TO “INCREASE LPV DA TO 1231 FEET AND ALL VISIBILITIES TO RVR 2000; INCREASE LNAV/VNAV DA TO 1420 FEET AND ALL VISIBILITIES TO RVR 4000; INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D TO RVR 4500 AND CIRCLING VISIBILITY CAT C/D 1/4 SM” – NEW FINAL APPROACH CONTROLLING OBSTACLES
23. REMOVED CHART NOTE FOR INOP ALS WHEN USING FRANKFORT ALTIMETER – NO LONGER REQUIRED
24. UPDATED CHART NOTE “BARO-VNAV AND VDP NA WHEN USING FRANKFORT ALTIMETER SETTING” TO “BARO-VNAV NA WHEN USING FRANKFORT ALTIMETER SETTING” – VDP NOT PUBLISHABLE
25. REMOVED CHART NOTE “NO PT FOR ARRIVAL AT SAAPP ON V171-178 EASTBOUND” – SAAPP REPLACED WITH RYYYY NOT ON AIRWAY
26. REMOVED “CHART VDP AT 1.06 NM TO RW04\*” NOTE – VDP NOT PUBLISHABLE
27. REMOVED “\* LNAV ONLY” NOTE – 8260.191 1-1-5.F
28. LPV DA/HAT DECREASED FROM 1274/305 TO 1169/200 – PREVIOUS CONTROLLING OBSTACLE (FINAL OCS PENETRATION) CONSIDERED ACCEPTABLE IAW 8260.3E 10-6-1
29. LPV VISIBILITY DECREASED FROM RVR 4000 TO RVR 1800 – 8260.3E TABLE 3-3-1
30. LNAV/VNAV DA/HAT DECREASED FROM 1362/393 TO 1340/371 – NEW SLOPED SURFACE EVALUATION RESULTS
31. LNAV/VNAV VISIBILITY DECREASED FROM RVR 5000 TO RVR 4000 – 8260.3E TABLE 3-3-1
32. LNAV MDA VISIBILITY CATS A AND B DECREASED FROM RVR 4000 TO RVR 2400, CAT C DECREASED FROM RVR 4000 TO RVR 3500 AND CAT D DECREASED FROM RVR 5000 TO RVR 3500 – 8260.3E TABLE 3-3-1
33. CIRCLING VISIBILITY CATS A AND B DECREASED FROM 1 1/2 TO 1 – 8260-3E TABLE 3-3-7
34. FAS DATA CHANGES: CRC REMAINDER CHANGED FROM 06F53F8C TO 36CB9324 - FPAP COORDINATES CHANGED FROM 380246.4240N 0843539.5660W TO 380246.4200N 0843539.5605W, TCH CHANGED FROM 59.8 TO 59.7, VAL CHANGED FROM 50.0 TO 35.0

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: ZID, LEX APP CON, LEX ATCT, AMGR

**FLIGHT CHECKED BY**

ROBERT E WILLAMS

**OFFICE**

FPO

**DATE**

11/14/2023

**DEVELOPED BY**

CASIMIR L. TABAKA (JON NEIDIGH)

**OFFICE**

AJV-A432

**DATE**

10/02/2023

**APPROVED BY**

JOHNNIE BAKER III

**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	KLEX
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	380139.6850N
LTP/FTP LONGITUDE	0843654.3915W
LTP/FTP ELLIPSOIDAL HEIGHT	+02532
FPAP LATITUDE	380246.4200N
FPAP LONGITUDE	0843539.5605W
THRESHOLD CROSSING HEIGHT (TCH)	00059.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER 36CB9324

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02865
FPAP ORTHOMETRIC HEIGHT	+02865



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

<u>AIRPORT ID</u> LEX	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 4	<u>AMDT NO.</u> 2	<u>CITY</u> LEXINGTON	<u>STATE</u> KY	<u>AIRPORT ELEVATION</u> 979	<u>FACILITY</u> RNAV
--------------------------	---	----------------------	--------------------------	--------------------	---------------------------------	-------------------------

**PART A: OBSTRUCTION DATA SEGMENTS**

**STRAIGHT-IN AREA**

<u>FROM</u> 316/30 CW 135/30	<u>TO</u> RYYYYE
---------------------------------	---------------------

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
------------	-----------------	------------	------------	------------	-------------

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (21-000907)	374718.00N/0844049.00W	2043	500	50	5D	1000				AT157	3200
TERRAIN	373112.00N/0845212.00W	1476 (1500)								AS1500	3000

**COMPUTATIONS**

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

**SEGMENT REMARKS:**

**LEFT BASE AREA**

<u>FROM</u> 135/30 CW 225/30	<u>TO</u> UUKAY
---------------------------------	--------------------

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
------------	-----------------	------------	------------	------------	-------------

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (21-000335)	381058.10N/0850628.35W	1649	250	50	4D	1000				AT551	3200
TERRAIN	381039.00N/0850642.00W	1187 (1200)								AS1500	2700

**COMPUTATIONS**

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

**SEGMENT REMARKS:**



**AIRPORT ID**  
LEX

**PROCEDURE NAME**  
RNAV (GPS) RWY 4

**AMDT NO.**  
2

**CITY**  
LEXINGTON

**STATE**  
KY

**AIRPORT ELEVATION**  
979

**FACILITY**  
RNAV

**RIGHT BASE AREA**

**FROM**  
225/30 CW 316/30

**TO**  
FRNZI

RNP                      DISTANCE                      PAT                      MAP                      HAT                      HMAS

<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 (21-002125)	375250.86N/0841915.94W	2049	500	50	5D	1000				AT151	3200
TERRAIN	373118.00N/0841027.00W	1614 (1600)								AS1500	3100

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**INITIAL**

**FROM**  
FRNZI

**TO**  
RYYYYE

RNP                      DISTANCE                      PAT                      MAP                      HAT                      HMAS  
1.00                      7.00

<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 (21-020241)	374848.82N/0843928.02W	1313	500	50	5D	1000				AT887	3200
TERRAIN	375024.00N/0844033.00W	984 (1000)								AS1500	2500

**COMPUTATIONS**

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

**SEGMENT REMARKS:**



**AIRPORT ID**  
LEX

**PROCEDURE NAME**  
RNAV (GPS) RWY 4

**AMDT NO.**  
2

**CITY**  
LEXINGTON

**STATE**  
KY

**AIRPORT ELEVATION**  
979

**FACILITY**  
RNAV

**INITIAL**

**FROM**  
UUKAY

**TO**  
RYYYY

**RNP**  
1.00

**DISTANCE**  
7.00

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
TOWER (21-002156)	375910.48N/0845249.12W	1164	500	50	5D	1000				AT1036	3200
TERRAIN	375727.00N/0844942.00W	925 (900)								AS1500	2400

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**INTERMEDIATE**

**FROM**  
RYYYY

**TO**  
BLAYD

**RNP**  
1.00

**DISTANCE**  
5.24

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
AAO	375406.00N/0844333.00W	1165	250	10	4B	500					1700
TERRAIN	375406.00N/0844333.00W	964 (1000)								AS1500	2500

**COMPUTATIONS**

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

**SEGMENT REMARKS:**



**AIRPORT ID**  
LEX

**PROCEDURE NAME**  
RNAV (GPS) RWY 4

**AMDT NO.**  
2

**CITY**  
LEXINGTON

**STATE**  
KY

**AIRPORT ELEVATION**  
979

**FACILITY**  
RNAV

**FINAL: LPV**

**FROM**  
BLAYD

**TO**  
RW04

**RNP**  
0.30

**DISTANCE**  
4.71

**PAT**

**MAP**  
DA

**HAT**  
200

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
							ASC				1169

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

947 POLE (21-052138) IS A PENETRATION BUT MEETS THE "ACCEPTABLE OBSTACLE" DEFINITION OF 8260.3E 10-6-1

**FINAL: LNAV/VNAV**

**FROM**  
BLAYD

**TO**  
RW04

**RNP**  
0.30

**DISTANCE**  
4.71

**PAT**

**MAP**  
DA

**HAT**  
371

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
TREE	380024.00N/0843718.00W	1072	250	8	4B		23.34:1			AC8	1340

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

DA BASED ON EVALUATION OF SLOPING OCS IS 1389; HOWEVER, THE 1340 LNAV MDA WAS USED IAW 8260.58C 3-3-5.





**AIRPORT ID**  
LEX

**PROCEDURE NAME**  
RNAV (GPS) RWY 4

**AMDT NO.**  
2

**CITY**  
LEXINGTON

**STATE**  
KY

**AIRPORT ELEVATION**  
979

**FACILITY**  
RNAV

**FINAL: LNAV**

**FROM**  
BLAYD

**TO**  
JELID/1.51 NM TO RW04

**RNP**  
0.30

**DISTANCE**  
3.20

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
AAO	375858.42N/0843931.75W	1140	50	20	2C	250				RA80	1480

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**FINAL: LNAV STEPDOWN**

**FROM**  
JELID/1.51 NM TO RW04

**TO**  
RW04

**RNP**  
0.30

**DISTANCE**  
1.51

**PAT**

**MAP**  
RW04

**HAT**  
371

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
POLE (21-001682)	380058.13N/0843717.76W	1078	20	3	1A	250					1340

**COMPUTATIONS**

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

**SEGMENT REMARKS:**



**AIRPORT ID**  
LEX

**PROCEDURE NAME**  
RNAV (GPS) RWY 4

**AMDT NO.**  
2

**CITY**  
LEXINGTON

**STATE**  
KY

**AIRPORT ELEVATION**  
979

**FACILITY**  
RNAV

**HOLD-IN-LIEU OF PT**

**FROM**  
RYYYY

**TO**  
P-5

RNP

DISTANCE

PAT  
P-5

MAP

HAT

HMAS

<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 (21-001800)	375035.53N/0844042.24W	1278	20	3	1A	1000				AT922	3200
TERRAIN	374642.00N/0844524.00W	1000 (1000)								AS1500	2500

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**MISSED APPROACH: LPV**

**FROM**  
DA

**TO**  
KAYFC

RNP  
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS  
986

<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>
							ASC				3200
TOWER (21-000127)	380724.00N/0842637.00W	1617	250	50	4D	1000				SA-137	2500
TERRAIN	380221.00N/0843430.00W	997 (1000)								AS1500	2500

**COMPUTATIONS**

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

**SEGMENT REMARKS:**



**AIRPORT ID**  
LEX

**PROCEDURE NAME**  
RNAV (GPS) RWY 4

**AMDT NO.**  
2

**CITY**  
LEXINGTON

**STATE**  
KY

**AIRPORT ELEVATION**  
979

**FACILITY**  
RNAV

**MISSED APPROACH: LNAV/VNAV**

**FROM** DA **TO** KAYFC

**RNP**  
0.30-1.00

**DISTANCE**

**PAT**

**MAP**

**HAT**

**HMAS**  
1179

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
							ASC				3200
TOWER (21-000127)	380724.00N/0842637.00W	1617	250	50	4D	1000				SA-137	2500
TERRAIN	380221.00N/0843430.00W	997 (1000)								AS1500	2500

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**MISSED APPROACH: LNAV**

**FROM** RW04 **TO** KAYFC

**RNP**  
0.30-1.00

**DISTANCE**

**PAT**

**MAP**

**HAT**

**HMAS**  
1240

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
							ASC				3200
TOWER (21-000127)	380724.00N/0842637.00W	1617	250	50	4D	1000				SA-137	2500
TERRAIN	380221.00N/0843430.00W	997 (1000)								AS1500	2500

**COMPUTATIONS**

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

**SEGMENT REMARKS:**



**AIRPORT ID**  
LEX

**PROCEDURE NAME**  
RNAV (GPS) RWY 4

**AMDT NO.**  
2

**CITY**  
LEXINGTON

**STATE**  
KY

**AIRPORT ELEVATION**  
979

**FACILITY**  
RNAV

**CIRCLING**  ALL CATS  CAT A  CAT B  CAT C  CAT D  CAT E  NOT AUTHORIZED

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>RADIUS</b>	<b>HAA</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
CATEGORY A											
WATER_TOWER (21-034121)	380310.07N/0843626.80W	1.30	441	1112	20	10	1B	300			1420
CATEGORY B											
WATER_TOWER (21-034121)	380310.07N/0843626.80W	1.84	461	1112	20	10	1B	300		HAA	1440
CATEGORY C											
ANTENNA (21-052343)	380243.12N/0843930.05W	2.89	541	1215	20	3	1A	300			1520
CATEGORY D											
TOWER (21-000894)	380339.00N/0843128.00W	3.78	621	1249	500	50	5D	300		AC50	1600

**CIRCLING REMARKS:**

**MSA/ESA**

**CENTER** **RADIUS**

**REMARKS:**

**NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:**

100 FT VEGETATION HEIGHT PER FPT



**AIRPORT ID**  
LEX

**PROCEDURE NAME**  
RNAV (GPS) RWY 4

**AMDT NO.**  
2

**CITY**  
LEXINGTON

**STATE**  
KY

**AIRPORT ELEVATION**  
979

**FACILITY**  
RNAV

**PART B: SUPPLEMENTAL DATA**

**COMMUNICATIONS WITH**

LEX APP CON, LEX TOWER, ZID ARTCC

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	LEX	24	LEX	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	FFT	24	FFT	16.56	Y	62

**WX REMARKS:**

RASS PRESSURE PATTERNS THE SAME  
KLEX 979, KFFT 812  
RA = 61.6

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
-----------------------	----------------------	----------------------	------------

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW09 - MIRL, REIL, PAPI-4L	NPI-G	
RW27 - MIRL, REIL, PAPI-4L	NPI-G	
RW04 - MALSR, TDZ, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH
RW22 - C/LINE (PCL), HIRL, REIL, PAPI-4L	PIR-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	940.0	59.7			3.00	60.0

**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>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-16C	+54C	-16C	+13.06C

**CRITICAL TEMPERATURE REMARKS:**

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2018-2022).  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 968 HIGH TEMP 1277.



**"VISUAL PORTION OF FINAL" PENETRATIONS**

FINAL TYPE	LPV, LNAV/VNAV, LNAV
34:1	
947 POLE (21-052138) 380136.73N/0843657.71W (1.13)	
FINAL TYPE	RWY 27: CIRCLING
20:1	
1014 TOWER (21-021530) 380225.37N/0843607.39W (16.2)	

**PENETRATIONS REMARKS:**

RWY 27 CIRCLING 20:1 OBSTACLE IS LIT. NO NIGHT RESTRICTION REQUIRED.  
RWY 4 34:1 PENETRATION IS APPROACH LIGHT, DISREGARD IAW 8260.3E PARA 10-6-1.

**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or

**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

<b>PENETRATIONS REMARKS:</b>

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
VDP NOT ESTABLISHED - VDP LOCATED WITHIN 0.5 NM FROM FINAL FIX.  
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



**AIRPORT ID**  
LEX

**PROCEDURE NAME**  
RNAV (GPS) RWY 4

**AMDT NO.**  
2

**CITY**  
LEXINGTON

**STATE**  
KY

**AIRPORT ELEVATION**  
979

**FACILITY**  
RNAV

**PART D: AIRSPACE**

**DOCKET #**

**ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE**

<b>DISTANCE FROM</b>	THLD	<b>TO 1000FT POINT</b>	3.14
<b>WIDTH OF</b>	FINAL	<b>SEGMENT AT 1000FT POINT</b>	1.20
<b>TRUE COURSE OF</b>	FINAL	<b>SEGMENT CONTAINING 1000FT POINT</b>	41.52
<b>HIGH TERRAIN IN</b>	FINAL	<b>SEGMENT CONTAINING 1000FT POINT</b>	1000
<b>DISTANCE FROM</b>	THLD	<b>TO 1500FT POINT</b>	4.71
<b>WIDTH OF</b>	FINAL	<b>SEGMENT AT 1500FT POINT</b>	2.13
<b>TRUE COURSE OF</b>	FINAL	<b>SEGMENT CONTAINING 1500FT POINT</b>	41.52
<b>HIGH TERRAIN IN</b>	FINAL	<b>SEGMENT CONTAINING 1500FT POINT</b>	1000

**THRESHOLD COORDINATES (IF STR-IN)**

380139.69N/0843654.39W

**ARP COORDINATES**

380212.30N/0843631.10W

**RUNWAY APCH END AND DIST FURTHEST FROM ARP**

RUNWAY 4 DISTANCE 0.62 NM

**FAF COORDINATES**

375807.88N/0844051.53W

**FIX NAME COORDINATES**

IF/IAF RYYYY 375412.13N/0844514.85W, IAF UUKAY  
375850.42N/0845152.86W, IAF FRNZI  
374933.47N/0843837.67W

**REMARKS**

30 NM RADIUS APPLIED AT TAA FIXES RYYYY, UUKAY, FRNZI

**PART E: PREPARED BY**

**NAME**

CASIMIR L. TABAKA (JON NEIDIGH)

**OFFICE**

AJV-A432

**DATE**

10/02/2023

**TITLE**

AERONAUTICAL INFORMATION SPECIALIST

