

<b>RNAV - STANDARD</b> <b>US DEPARTMENT OF TRANSPORTATION</b> <b>FEDERAL AVIATION ADMINISTRATION</b>				<b>INSTRUMENT APPROACH PROCEDURE</b> <b>TITLE 14 CFR PART 97.33</b>				Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW17L  CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 3000 DIRECT IIL VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.  ADDITIONAL FLIGHT DATA: HOLD SE, RT, 300.00 INBOUND. CHART FAS OBST: 657 TOWER 381151N/0854442W CHART: 683 TOWER 371325N/0854458W DISTANCE TO THLD FROM 200 HAT: 0.45 NM. CHART VDP AT 0.99 NM TO RW17L* *LNAV ONLY. WAAS CHANNEL # 90101 REFERENCE PATH ID: W17B CHART CIRCLING ICON. LTP HAE: 118.9 M									
HONOS (IAF)		THUND (TF) (FB) (RNP 1.00)		123.86 / 17.01				5000											
THUND (IF)		RACRR (TF) (FB) (RNP 1.00)		169.86 / 3.53				4000											
RACRR		SLGRR (TF) (FB) (RNP 1.00)		169.87 / 5.77				2500											
SLGRR (FAF)		KELEI/2.50 NM TO RW17L (TF) (FB) (RNP 0.30)		169.89 / 3.61															
KELEI/2.50 NM TO RW17L		RW17L (MAP) (TF) (FO) (RNP 0.30)		169.89 / 2.50															
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT THUND 3. FAC: 169.89 FAF: SLGRR DIST FAF TO MAP: 6.11 THLD: 6.11 4. MIN. ALT: THUND 5000, RACRR 4000, SLGRR 2500, KELEI/2.50 NM TO RW17L 1320* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2500 GS ALT AT: SLGRR 2500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.2 20:1 IS CLEAR 34:1 IS CLEAR 8. MSA FROM: RW17L 3600																MAG VAR: 5W		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @									
CATEGORY =====>		A		B		C		D		E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
LPV DA	699	1800	200	699	1800	200	699	1800	200	699	1800	200							
LNAV/VNAV DA	818	2400	319	818	2400	319	818	2400	319	818	2400	319							
LNAV MDA	920	2400	421	920	2400	421	920	4000	421	920	4000	421							
CIRCLING	1040	1	539	1140	1	639	1160	1 3/4	659	1400	3	899							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14C (7F) OR ABOVE 54C (130F). @ CAT D 900-3 CHART NOTE: CIRCLING RWY 11 NA AT NIGHT. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 501 TDZE: 499		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 17L, AMDT 1E				SUP:									
LOUISVILLE, KY		AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD								AMDT: 1D									
										DATED 08/17/2017									



ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
ROUTINE					
COORDINATED WITH:					
ATA <div><input checked="" type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>		ALPA <div><input checked="" type="checkbox"/></div>	
APA <div><input checked="" type="checkbox"/></div>		AOPA <div><input checked="" type="checkbox"/></div>		NBAA <div><input checked="" type="checkbox"/></div>	
OTHER (specify)		<div><input checked="" type="checkbox"/> ZID, SDF APP CON, SDF ATCT, AMGR</div>			
FLIGHT CHECKED BY					
NAME:		FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW FLIGHT TEAM (AJW-333) MEMO, MAY 30, 2017.			DATE:
		Digitally signed by ROBERT G HAMILTON			FIFO FIOG 12/02/2011
DEVELOPED BY					
NAME:		PETER R. GUIMOND			DATE:
		Digitally signed by PETER R GUIMOND Aug 10, 2017			FIFO AJV-5422 08/10/2017
APPROVED BY					
NAME:		ROBERT G HAMILTON			DATE:
		Digitally signed by JULIE A. MORGAN MANAGER			FIFO AJV-5420
CHANGES: Jan 22, 2018					
<div>1. AMENDED PROCEDURE MAGVAR FROM 3W 1995 TO 5W 2020. 2. INCREASED ALL MAGNETIC HEADINGS, WITH EXCEPTION OF MISSED APPROACH HOLDING, TWO DEGREES. 3. AMENDED FINAL APPROACH COURSE FROM 167.91 TO 169.91. 4. DELETED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HONOS ON V44 WESTBOUND, V171 NORTHWEST BOUND. 5. ADDED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HONOS ON V171 NORTHWEST BOUND. 6. DELETED NOTE: NIGHT LANDING: RWY 11 NA. 7. ADDED NOTE: CIRCLING RWY 11 NA AT NIGHT. 8. DELETED NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 17R. 9. ADDED NOTE: SIMULTANEOUS APPROACH AUTHORIZED. 10. DELETED CHART 1014 BLDG 381514N/0854528W IN ADDITIONAL FLIGHT DATA. 11. AMENDED DIST TO THLD FROM 200 HATH: 0.45 NM TO READ DIST TO THLD FROM 200 HAT: 0.45 NM. 12. DELETED CHART: R-3704A AND B FROM ADDITIONAL FLIGHT DATA. 13. DELETED NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. 14. ADDED NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS. 15. INCORPORATED CHANGES FROM AMDT 1A (ABBREVIATED AMDT), 1B (P-NOTAM 4/0452), 1C (P-NOTAM 5/6012), AND 1D (P-NOTAM 7/1224).</div>					
REASONS:					
<div>1. MATCH PENDING MAGVAR ASSIGNMENT FOR KSDF IN AIRNAV. 2. COMPUTED USING AMENDED MAGVAR VALUE. RETAINED PUBLISHED HOLDING COURSE (300 INBOUND) AT IIU VORTAC. 3. COMPUTED USING AMENDED MAGVAR VALUE. 4. REPLACED BY UPDATED NOTE. 5. HONOS NO LONGER PART OF V44. 6. REPLACED BY UPDATED NOTE. 7. FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O(2)(G). 8. REPLACED BY UPDATED NOTE. 9. FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O(7)(A). 10. NO LONGER REQUIRED, ONLY STEPDOWN OBSTACLE REQUIRED TO BE CHARTED. 11. MINIMUMS ARE PUBLISHED USING TDZE. 12. RESTRICTED AREAS NO FACTOR TO FLIGHT TRACKS ON THIS PROCEDURE. 13. REPLACED BY UPDATED NOTE. 14. FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O7(D). 15. IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-3-4C(2).</div>					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW17L (MAP)	1000 MSL (CA)	169.89	1000
1000 MSL	IIU VORTAC (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HONOS ON V171 NORTHWEST BOUND.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.  
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.

QUALITY  
25  
CHECKED

CITY AND STATE  
LOUISVILLE, KY

ELEVATION: 501 TDZE: 499  
AIRPORT NAME:  
LOUISVILLE INTL-STANDIFORD FIELD

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) Y RWY 17L, AMDT 1E

SUP:  
AMDT: 1D  
DATED: 08/17/2017

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA      OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSDF
RUNWAY	RW17L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17B
LTP/FTP LATITUDE	381111.1445N
LTP/FTP LONGITUDE	0854351.7595W
LTP/FTP ELLIPSOIDAL HEIGHT	+01189
FPAP LATITUDE	380945.0200N
FPAP LONGITUDE	0854322.3500W
THRESHOLD CROSSING HEIGHT (TCH)	00055.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0232
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 B265BFF7

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01522
FPAP ORTHOMETRIC HEIGHT	+01522

QUALITY  
25  
CHECKED

CITY AND STATE LOUISVILLE, KY	ELEVATION: 501 AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	TDZE: 499  RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 17L, AMDT 1E	SUP:
				AMDT: 1D
				DATED: 08/17/2017

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <div><input type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>	ALPA <div><input type="checkbox"/></div>	APA <div><input type="checkbox"/></div>	AOPA <div><input type="checkbox"/></div>
NBAA <div><input type="checkbox"/></div>		OTHER (specify) <div><input type="checkbox"/></div>			
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD																			
PART - A OBSTRUCTION DATA																			
1. APP SEGMENT		FROM		TO		OBSTRUCTION		COORDINATES		ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.						
INITIAL		HONOS		THUND		1. TOWER (18-001107)		382518.00N/0854942.00W		1292 (5D)	1000	AT2708	5000						
						3. TERRAIN		382606.00N/0855006.00W		981 (1000)		AS1500	2500						
INTERMEDIATE		THUND		RACRR		4. TOWER (18-000265)		382210.00N/0855002.00W		1949 (3C)	500	AT1511	4000						
						5. TERRAIN		382524.00N/0854930.00W		1008 (1000)		AS1500	2500						
INTERMEDIATE:		RACRR		SLGRR		4. TOWER (18-000265)		382210.00N/0855002.00W		1949 (3C)	500		2500						
STEPDOWN						6. TERRAIN		382203.00N/0854945.00W		998 (1000)		AS1500	2500						
FINAL: LPV		SLGRR		RW17L							ASC		699/200						
FINAL: LNAV/VNAV		SLGRR		RW17L		7. TOWER (21-001422)		381150.85N/0854442.24W		657 (1A)	23.22:1		818/319						
FINAL: LNAV		SLGRR		KELEI/2.50 NM TO RW17L		8. BLDG (21-001100)		381516.00N/0854528.00W		1014 (5D)	250	AC50 XL6	1320						
FINAL: LNAV STEPDOWN		KELEI/2.50 NM TO RW17L		RW17L		7. TOWER (21-001422)		381150.85N/0854442.24W		657 (1A)	250		920						
2. PROCEDURE TURN																			
3. MISSED APPROACH	MAP:		DA / DA / RW17L		IIU VORTAC						ASC		3000						
	ELEV:		531/658/820				9. TOWER (21-020059)		380615.81N/0853401.36W		1021 (5D)	1000	2100						
							10. TERRAIN		380615.00N/0853424.00W		716 (700)		AS1500						
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.															
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	539	11. ATCT (21-001527)		380932.61N/0854348.30W		740 (1A)	300	1040					
CATEGORY B		1.5 NM			450		639	12. TREE (21-036797)		380923.78N/0854617.68W		834 (1B)	300	1140					
CATEGORY C		1.7 NM			450		659	13. TREE (21-030754)		380940.36N/0854708.99W		849 (1B)	300	1160					
CATEGORY D		2.3 NM			550		899	14. AAO		380608.67N/0854226.20W		1094 (2C)	300	1400					
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES												PRIMARY NAVAID: RW17L							
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
360-360		TWR (21-001039)		047/21.7		2549 (5D)		3600											
CITY AND STATE				ELEVATION: 501				FACILITY				PROCEDURE AND AMENDMENT NO:				REGION			
LOUISVILLE, KY				AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD				RNAV				RNAV (GPS) Y RWY 17L, AMDT 1E				ASO			

QUALITY  
25

CHECKED

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: <b>THRESHOLD DISPLACED 328.</b>  <b>PRECIPITOUS TERRAIN EVALUATION COMPLETED.</b>  <b>ORDER 8260.3 CHAPTER 2 APPLIED TO 683 TOWER 371325N/0854458W</b>  <b>2. KSDF ASOS ON WMSCR.</b> <b>3. 24 HOUR ATC TOWER HAS REDUNDANT WEATHER SOURCES, BACK-UP ALTIMETER NOT REQUIRED.</b> <b>5. VGSI DATA: 3.32/70.5.</b>  <b>ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.</b> <b>CAT A: 1.30NM</b> <b>CAT B: 1.82NM</b> <b>CAT C: 2.86NM</b> <b>CAT D: 3.74NM</b>  <b>NO ADDITIONAL AIRSPACE REQUIRED.</b>  <b>100 FOOT ASSUMED TREE HEIGHT PER FPT.</b>  <b>TAA NOT DEVELOPED PER FPT.</b>  <b>LPV, LNAV/VNAV, AND LNAV INTERMEDIATE SEGMENTS HAVE THE SAME CONTROLLING OBSTACLES.</b>  <b>WP'S THUND AND RACRR PLACED USING 8260.69A FORMULAS</b>  <b>AVERAGE HIGH TEMPERATURE BASED ON 5-YEAR HISTORY (2006-2010) APPLIED TO THUND, RACCR</b>  <b>ACT CARRIED OVER FROM AMDT 1 (-14C / 7F)</b>  <b>LPV SURFACE: 34:1</b>  <b>LNAV/VNAV SURFACE: 23.22:1</b>  <b>VISUAL PORTION OF FINAL PENETRATIONS</b> <b>CIRCLING RWY 11, 20:1</b> <b>531 TREE (21-054293) 381054.58N/0854501.97W (11.11)</b> <b>543 TREE (21-054298) 381053.63N/0854506.31W (8.68)</b> <b>531 TREE (21-022938) 381054.99N/0854502.75W (7.46)</b> <b>521 TREE (21-054295) 381053.17N/0854502.20W (2.83)</b>																			
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																					
<b>SDF TOWER</b> <b>ZID ARTCC</b> <b>SDF APP CON</b>				<div>N W S</div> <div>F A A</div> <div>A / C</div>		OTHER: <b>ASOS</b>		SOURCE: <b>KSDF</b>																					
								DISTANCE:																					
								HOURS REMOTE OPERATION: <div>24</div>																					
SATISFACTORY ON:																				LOCATION: <b>KSDF</b>									
<div>X</div> V H F		<div>X</div> U H F		<div></div> H F		ADJUSTMENT: <b>0</b>																							
4. MONITOR STATUS		PRIMARY NAVAID:																											
		MONITOR POINT:																											
		HRS OPTN:		CAT 1																									
				CAT 3																									
5. APPROACH & RUNWAY LIGHTING		<div>X</div>		<b>ALSF-2 35L, 35R</b>																									
				<b>(S) SALS</b>																									
		<div>X</div>		<b>MALSR 17L, 17R, 29</b>																									
		<div>X</div>		<b>HIRL 11, 17L, 17R, 29, 35L, 35R</b>																									
				<b>MIRL</b>																									
				<b>REIL</b>																									
		<div>X</div>		<b>TDZ 17L, 17R, 35L, 35R</b>																									
		<div>X</div>		<b>C/L 17L, 17R, 35L, 35R</b>																									
		<div>X</div>		<b>OTHER (SPECIFY)</b> <b>PAPI-4R 35R PAPI-4L 11, 17L, 17R, 29, 35L</b>																									
6. RUNWAY MARKINGS		BASIC <b>BSC-G 11</b>																											
		ALL WEATHER <b>PIR-G 17L, 17R, 29, 35L, 35R</b>																											
		INSTRUMENT																											
7. RUNWAY VISUAL RANGE		APPROACH <b>17L, 17R, 29, 35L, 35R</b>																											
		MIDFIELD <b>17L, 17R, 35L, 35R</b>																											
		ROLL OUT <b>17L, 17R, 35L, 35R</b>																											
8. GLIDE PATH		GP ANGLE: <b>3.00</b>										ELEV RWY THRESHOLD: <b>499.4</b>																	
		DISTANCE FROM RWY:										ELEV GP ANTENNA:																	
												THRESHOLD CROSSING HEIGHT: <b>55.2</b>																	
9. FINAL APPROACH COURSE AIMING				<div>X</div>		RUNWAY THRESHOLD														FT. FROM THRESHOLD									
				<div>X</div>		ON CENTERLINE														FT. FROM CENTERLINE									
10. WAIVERS: <b>NONE</b>																													
PART D - PREPARED BY: <b>PETER R. GUIMOND</b>										DATE: <b>08/10/2017</b>																			
TITLE: <b>AERONAUTICAL INFORMATION SPECIALIST</b>										OFFICE: <b>AJV-5422</b>																			

