

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				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										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW35R CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 4000 DIRECT TORAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 071.00 INBOUND. CHART FAS OBST: 740 ATCT 380933N/0854348W. CHART R-3704 A & B. DISTANCE TO THLD FROM 200 HAT: 0.44 NM. CHART VDP AT 1.43 NM TO RW35R* *LNAV ONLY. WAAS CHANNEL # 70709 REFERENCE PATH ID: W35D CHART CIRCLING ICON. CHART ARRIVAL HOLDING AT BRBON: HOLD S, RT, 008.43 INBOUND, 4000. LTP HAE: 110.4 M						
BRBON (IAF)		PGSUS (TF) (FB) (RNP 1.00)		356.79 / 8.29			4000								
PGSUS (IF)		UPSCO (TF) (FB) (RNP 1.00)		349.96 / 3.49			3000								
UPSCO		PARCL (TF) (FB) (RNP 1.00)		349.95 / 2.60			2400								
PARCL (FAF)		HOSTO/2.70 NM TO RW35R (TF) (FB) (RNP 0.30)		349.94 / 3.17											
HOSTO/2.70 NM TO RW35R		RW35R (MAP) (TF) (FO) (RNP 0.30)		349.94 / 2.70											
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT PGSUS 3. FAC: 349.94 FAF: PARCL DIST FAF TO MAP: 5.87 THLD: 5.87 4. MIN. ALT: PGSUS 4000, UPSCO 3000, PARCL 2400, HOSTO/2.70 NM TO RW35R 1360* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2400 GS ALT AT: PARCL 2400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 60.4 20:1 IS CLEAR 34:1 IS CLEAR 8. MSA FROM: RW35R 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	680	1800	200	680	1800	200	680	1800	200	680	1800	200			
LNAV/VNAV DA	909	5000	429	909	5000	429	909	5000	429	909	5000	429			
LNAV MDA	1000	2400	520	1000	2400	520	1000	5500	520	1000	5500	520			
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: 480		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 35R, AMDT 1E				SUP:					
LOUISVILLE, KY		AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD								AMDT: 1D					
										DATED 10/12/2017					



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 FIOG			09/24/2014
DEVELOPED BY					
NAME:		PETER R. GUIMOND			DATE:
		Digitally signed by PETER R GUIMOND Sep 09, 2017			09/09/2017
APPROVED BY					
NAME:		ROBERT G HAMILTON JULIE A. MORGAN			DATE:
		MANAGER			09/09/2017
CHANGES:					
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 347.94 TO 349.94 4. DELETED NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 35L. 5. ADDED NOTE: SIMULTANEOUS APPROACH AUTHORIZED. 6. DELETED NOTE: FOR INOPERATIVE ALSF-2, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 MILE. 7. ADDED NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM. 8. DELETED NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. 9. ADDED NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS. 10. INCORPORATED CHANGES FROM AMDT 1A (ABBREVIATED AMDT), 1B (ABBREVIATED AMENDMENT), AND 1C (P-NOTAM 5/6017), AND 1D (P-NOTAM 7/4828).					
REASONS:					
1. MATCH PENDING MAGVAR ASSIGNMENT FOR KSDF IN AIRNAV. 2. COMPUTED USING AMENDED MAGVAR VALUE. RETAINED PUBLISHED HOLDING COURSE AT TORAC (REMAIN ALIGNED WITH ILS RWY 35R HOLDING PATTERN). 3. COMPUTED USING AMENDED MAGVAR VALUE. 4. REPLACED BY UPDATED NOTE. 5. FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-511O(7)(A). 6. REPLACED BY UPDATED NOTE. 7. FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-511O(3)(D). 8. REPLACED BY UPDATED NOTE. 9. FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O(7)(D). 10. IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-3-4C(2).					



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

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW35R (MAP)	1600 MSL (CA)	349.94	1600
1600 MSL	TORAC (DF) (FO) (RNP 1.00)		4000

NOTES, (CONT.):

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART PLANVIEW NOTE: ARRIVAL HOLDING NOT REQUIRED AT BRBON ON V5-513 NORTHBOUND.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM.

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.

QUALITY
9
CHECKED

CITY AND STATE
LOUISVILLE, KY

ELEVATION: 501 TDZE: 480
AIRPORT NAME:
LOUISVILLE INTL-STANDIFORD FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 35R, AMDT 1E

SUP:
AMDT: 1D
DATED: 10/12/2017

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> <div></div>			
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**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSDF
RUNWAY	RW35R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35D
LTP/FTP LATITUDE	380956.6900N
LTP/FTP LONGITUDE	0854326.3320W
LTP/FTP ELLIPSOIDAL HEIGHT	+01104
FPAP LATITUDE	381122.8200N
FPAP LONGITUDE	0854355.7400W
THRESHOLD CROSSING HEIGHT (TCH)	00060.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0272
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

E830916E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01437
FPAP ORTHOMETRIC HEIGHT	+01437

QUALITY
9
CHECKED

CITY AND STATE

LOUISVILLE, KY

ELEVATION: 501

TDZE: 480

AIRPORT NAME:

LOUISVILLE INTL-STANDIFORD FIELD

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 35R, AMDT 1E

SUP:

AMDT: 1D

DATED: 10/12/2017

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:					

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	BRBON	PGSUS	1. TOWER (21-001296)	375637.23N/0853837.85W	1107 (5E)	1000	AT1893	4000					
			2. TERRAIN	375457.00N/0853624.00W	906 (900)		AS1500	2400					
INTERMEDIATE	PGSUS	UPSCO	3. AAO	375733.00N/0853836.00W	1011 (4E)	500	AC98 AT1391	3000					
			4. TERRAIN	375733.00N/0853800.00W	811 (800)		AS1500	2300					
INTERMEDIATE:	UPSCO	PARCL	5. AAO	380309.00N/0854000.00W	916 (4E)	500	AC98 DG886	2400					
STEPDOWN			6. TERRAIN	380306.00N/0854257.00W	686 (700)		AS1500	2200					
FINAL: LPV	PARCL	RW35R				ASC		680/200					
FINAL: LNAV/VNAV	PARCL	RW35R	7. ATCT (21-001527)	380932.61N/0854348.30W	740 (1A)	161		909/429					
FINAL: LNAV	PARCL	HOSTO/2.70 NM TO RW35R	8. AAO	380608.67N/0854226.20W	1094 (2C)	250		1360					
FINAL: LNAV STEPDOWN	HOSTO/2.70 NM TO RW35R	RW35R	7. ATCT (21-001527)	380932.61N/0854348.30W	740 (1A)	250		1000					
2. PROCEDURE TURN													
3. MISSED APPROACH	MAP:	DA / DA / RW35R	TORAC			ASC		4000					
	ELEV:	501/740/900		9. TOWER (21-000111)	381541.00N/0852543.00W	1408 (4D)	1000	2500					
				10. TERRAIN	382051.00N/0852515.00W	876 (900)	AS1500	2400					
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.											
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	539	7. ATCT (21-001527)	380932.61N/0854348.30W	740 (1A)	300		1040		
CATEGORY B	1.5 NM		450		639	11. TREE (21-036797)	380923.78N/0854617.68W	834 (1B)	300		1140		
CATEGORY C	1.7 NM		450		659	12. TREE (21-030754)	380940.36N/0854708.99W	849 (1B)	300		1160		
CATEGORY D	2.3 NM		550		899	8. AAO	380608.67N/0854226.20W	1094 (2C)	300		1400		
CATEGORY E	4.5 NM		550										
5. MINIMUM SAFE ALTITUDES													
PRIMARY NAVAID: RW35R													
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A				
360-360	TWR (21-001039)	044/22.4	2548 (5D)	3600									
CITY AND STATE			ELEVATION: 501		FACILITY		PROCEDURE AND AMENDMENT NO:			REGION			
LOUISVILLE, KY			AIRPORT NAME:		RNAV		RNAV (GPS) Y RWY 35R, AMDT 1E			ASO			
			LOUISVILLE INTL-STANDIFORD FIELD										

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: THRESHOLD DISPLACED 449 FEET. PRECIPITOUS TERRAIN EVALUATION COMPLETED. 2. KSDF ASOS ON WMSCR. 3. 24 HOUR ATC TOWER HAS REDUNDANT WEATHER SOURCES, BACK-UP ALTIMETER NOT REQUIRED. 5. VGSI DATA: 3.00/72.0. CRITICAL TEMPERATURES: CRITICAL LOW :-14C (+7F) CRITICAL HIGH :+54C (+130F) ACT :-14C APT ISA :+14.01C CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2006-2010). CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 960 HIGH TEMP 1121. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.82NM CAT C: 2.86NM CAT D: 3.74NM NO ADDITIONAL AIRSPACE REQUIRED. 100 FOOT ASSUMED TREE HEIGHT PER FPT. TCH 60.4 FT USED TO MATCH ILS (I-JJM TCH 60.45 ROUNDS DOWN). LPV INNER/OUTER SURFACE = 34:1 LNAV/VNAV SURFACE = 23.22:1 AVERAGE HIGH TEMPERATURE BASED ON 5-YEAR HISTORY (2006-2010), APPLIED TO PGSUS & UPSCO. TAA NOT DEVELOPED PER ATC/FPT. PFINAL INTERMEDIATE STEPDOWN CONTROLLING OBSTRUCTION FROM UPSCO TO PARCL IS 867 AAO (3801100.00N/0854300.00W) AND IS DIFFERENT THAN LNAV/VNAV & LNAV INTERMEDIATE STEPDOWN SEGMENTS. HIGHER OBSTACLE (OBS # 5) USED DUE TO WORST CASE EFFECT. UPSCO & PGSUS FIXES PLACED USING 8260.69A FORMULAS. IAPA AND MAP STUDY USED TO VERIFY AAO/VEGETATION OBSTACLES. VISUAL PORTION OF FINAL PENETRATIONS CIRCLING RWY 11, 20:1 531 TREE (21-054293) 381054.58N/0854501.97W (11.11) 543 TREE (21-054298) 381053.63N/0854506.31W (8.68) 531 TREE (21-022938) 381054.99N/0854502.75W (7.46) 521 TREE (21-054295) 381053.17N/0854502.20W (2.83)																			
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																					
ZID ARTCC SDF APP CON SDF TOWER						N W S		OTHER: ASOS												SOURCE:KSDF									
						F A A														DISTANCE:									
						A / C														HOURS REMOTE OPERATION: 24									
SATISFACTORY ON:																													
X		V H F		X		U H F														H F		LOCATION: KSDF				ADJUSTMENT: 0			
4. MONITOR STATUS		PRIMARY NAVAID:																											
		MONITOR POINT:																											
		HRS OPTN:		CAT 1																									
				CAT 3																									
5. APPROACH & RUNWAY LIGHTING		X		ALSF-2 35L, 35R																									
				(S) SALS																									
		X		MALSR 17L, 17R, 29																									
		X		HIRL 11, 17L, 17R, 29, 35L, 35R																									
				MIRL																									
				REIL																									
		X		TDZ 17L, 17R, 35L, 35R																									
		X		C/L 17L, 17R, 35L, 35R																									
		X		OTHER (SPECIFY) PAPI-4R 35R PAPI-4L 11, 17L, 17R, 29, 35L																									
6. RUNWAY MARKINGS				BASIC BSC-G 11																									
				ALL WEATHER PIR-G 17L, 17R, 29, 35L, 35R																									
				INSTRUMENT																									
7. RUNWAY VISUAL RANGE				APPROACH 17L, 17R, 29, 35L, 35R																									
				MIDFIELD 17L, 17R, 35L, 35R																									
				ROLL OUT 17L, 17R, 35L, 35R																									
8. GLIDE PATH				GP ANGLE: 3.00										ELEV RWY THRESHOLD:471.5															
				DISTANCE FROM RWY:										ELEV GP ANTENNA:															
														THRESHOLD CROSSING HEIGHT:60.4															
9. FINAL APPROACH COURSE AIMING						X		RUNWAY THRESHOLD												FT. FROM THRESHOLD									
						X		ON CENTERLINE												FT. FROM CENTERLINE									
10. WAIVERS: NONE																													
PART D - PREPARED BY: PETER R. GUIMOND												DATE: 09/09/2017																	
TITLE: AERONAUTICAL INFORMATION SPECIALIST												OFFICE: AJV-5422																	

